1	IN THE UNITED STATES DISTRICT COURT
2	SOUTHERN DISTRICT OF NEW YORK
3	Case No. 11 Civ. 3718 (LAK)
4	
5	VIDEOTAPED DEPOSITION OF DOUGLAS BELTMAN
6	September 9, 2011
7	
8	CHEVRON CORPORATION,
9	Plaintiff,
10	against
11	MARIA AGUINDA SALAZAR, et al.,
12	Defendants.
13	and
14	STEVEN DONZIGER, et al.,
15	Intervenors.
16	
17	Pursuant to Notice and the Federal Rules of
18	Civil Procedure, the videotaped deposition of
19	DOUGLAS BELTMAN, called by Defendants, was taken on
20	Friday, September 9, 2011, commencing at 9:05 a.m.,
21	at 1801 York Street, Denver, Colorado, before
22	Kelly A. Mackereth, Certified Shorthand Reporter,
23	Registered Professional Reporter, Certified Realtime
24	Reporter and Notary Public within Colorado.
25	

VERITEXT REPORTING COMPANY www.veritext.com

ľ

	2		4
1	APPEARANCES:	1	Grand Rapids, and then University of Rochester is
2	GIBSON DUNN	2	where I graduated from
3	By Peter E. Seley, Esq. Virginia Fitt, Esq.	3	Q What did
4	1050 Connecticut Avenue , N. W. Washington, D.C. 20036-5306	4	A in New York.
5	Phone: 202.955.8500	5	Q I'm sorry. What did you study there?
6	Fax: 202.530.9594 pseley@gibsondunn.com	6	A Chemistry.
7	vfitt@gibsondunn.com Appearing on behalf of the	7	Q And you obtained a degree?
8	Plaintiff	8	A Yeah, a BS in chemistry.
9	SMYSER KAPLAN & VESELKA, LLP By Craig Smyser, Esq.	9	Q Did you have any glorified Latin words
10	Garland "Land" D. Murphy IV, Esq.	10	after the end of your degree?
11	700 Louisiana Suite 2300	11	A Summa cum laude. I was awarded that with
12	Houston, TX 77002 Phone: 713.221.2330	12	my bachelor's.
13	Fax: 713.221.2320 csmyser@skv.com	13	Q Does that mean with highest honors?
14	Imurphy@skv.com	14	A Yes, with highest honors.
	Appearing on behalf of the Defendants Javier Piaguaje	15	Q Congratulations.
15 16	Payaguaje and Hugo Gerardo Camacho Narajo	16	A Thank you.
17	ZEICHNER, ELLMAN & KRAUSE LLP By Benjamin H. Green, Esq.	17	Q After obtaining your bachelor's degree in
18	35 Mason Street Greenwich, Connecticut 06830	18	chemistry, have you pursued any additional education?
	Phone: 202.622.0900	19	A Yes, I have. I received a master's in
19	Fax: 203.862.9889 bgreen@zeklaw.com	20	what is called land resources from the University of
20	Appearing on behalf of the Deponent	21	Wisconsin in Madison.
21	Also present:	22	Q When did you start that program?
22	Sara McMillen Trevor Brock, Videographer	23	A 1987.
23 24	Matt Spalding	24	Q What was the focus of your study?
25		25	A At University of Wisconsin, land resources
	3	1	_
	5		5
1	د.	1	5 is an interdisciplinary program that focuses on
1 2		1	
	* * * * * *		is an interdisciplinary program that focuses on
2	* * * * * * * P R O C E E D I N G S	2	is an interdisciplinary program that focuses on environmental issues. My particular thesis focused
2 3	* * * * * * * P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is	2 3	is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern
2 3 4 5 6	* * * * * * * * * P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the	2 3 4 5 6	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree?
2 3 4 5 6 7	***** P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please.	2 3 4 5 6 7	is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS.
2 3 4 5 6 7 8	* * * * * * * P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN,	2 3 4 5 6 7 8	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in
2 3 4 5 6 7 8 9	P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and	2 3 4 5 6 7 8 9	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology?
2 3 4 5 6 7 8 9 10	***** P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows:	2 3 4 5 6 7 8 9 10	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University
2 3 4 5 6 7 8 9 10 11	P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION	2 3 4 5 6 7 8 9 10 11	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental
2 3 4 5 6 7 8 9 10 11 12	***** P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER:	2 3 4 5 6 7 8 9 10 11 12	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology.
2 3 4 5 6 7 8 9 10 11 12 13	***** P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman.	2 3 4 5 6 7 8 9 10 11 12 13	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental
2 3 4 5 6 7 8 9 10 11 12 13 14	****** P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman. A Good morning.	2 3 4 5 6 7 8 9 10 11 12 13 14	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	***** PROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman. A Good morning. Q How are you?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology? A It is the study of how chemicals,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	***** PROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman. A Good morning. Q How are you? A Fine, thank you.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman. A Good morning. Q How are you? A Fine, thank you. Q Would you please give us your full name 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 P R O C E E D I N G S THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q Good morning, Mr. Beltman. A Good morning. Q How are you? A Fine, thank you. Q Would you please give us your full name for the record? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 FROCEEDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 FROCEEDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. Q. Where did you grow up? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology. Q Okay. Did you study at all the effect,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 FROCEEDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. Q. Where did you grow up? A. In Michigan; Grand Rapids, Michigan. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology. Q Okay. Did you study at all the effect, adverse effects, of chemicals on other living
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 FROCEEDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. Q. Where did you grow up? A. In Michigan; Grand Rapids, Michigan. Q. Did you go to high school there? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology. Q Okay. Did you study at all the effect, adverse effects, of chemicals on other living organisms, such as people?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 FROCEEDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. Q. Where did you grow up? A. In Michigan; Grand Rapids, Michigan. Q. Did you go to high school there? A. I did. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology. Q Okay. Did you study at all the effect, adverse effects, of chemicals on other living organisms, such as people? A I took I don't think I took any human
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 FRANCE EDINGS FROCEEDINGS THE VIDEOGRAPHER: Today's date is September 9th, 2011. It's 9:05. We're now on the record. MR. SMYSER: Reporter, would you swear the witness in, please. DOUGLAS BELTMAN, having been first duly sworn, was examined and testified as follows: EXAMINATION BY MR. SMYSER: Q. Good morning, Mr. Beltman. A. Good morning. Q. How are you? A. Fine, thank you. Q. Would you please give us your full name for the record? A. Douglas John Beltman. Q. Where did you grow up? A. In Michigan; Grand Rapids, Michigan. Q. Did you go to high school there? A. I did. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 is an interdisciplinary program that focuses on environmental issues. My particular thesis focused on migratory songbirds in the forests of northern Wisconsin. Q As a result of that study, did you obtain a degree? A I did. MS. Q And have your studies included classes in toxicology? A Yes, they have. While I was at University of Wisconsin, I took classes in environmental toxicology or ecotoxicology. Q What is toxicology, environmental toxicology or ecotoxicology? A It is the study of how chemicals, primarily pollutants, chemicals we introduce into the environment, how they impact ecological resources. Could be animals, could be plants, could be bacteria. Ecotoxicology focuses on non-human toxicology. Q Okay. Did you study at all the effect, adverse effects, of chemicals on other living organisms, such as people?

2 (Pages 2 to 5)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	6		8
1	Q Okay. I would like to talk to you about	1	Q So you were involved in deciding what
2	your professional work, your work history, okay?	2	might be necessary to remediate those Superfund
3	A Okay.	3	sites?
4	Q After you left the University of	4	A Indirectly. My focus was on studying what
5	Rochester, what was your first position?	5	the impacts were to the ecological resources,
6	A I worked for the Eastman Kodak Company in	6	providing recommendations to the project managers,
7	Rochester as a research chemist.	7	but after those recommendations were provided, I had
8	Q And what did you focus on?	8	little control.
9	A I was doing organic research chemistry in	9	Q Okay. How many sites do you think, if you
10	the research labs at Kodak.	10	can remember, you worked on?
11	Q Okay.	11	A About 60.
12	A And I was part of a research group that	12	Q Okay. What is a Superfund site?
13	was given free rein to study whatever we wanted to.	13	A A Superfund site, there are different
14	I focused on organic synthesis of some organic	14	definitions. The definition I'm using is a site that
15	compounds.	15	has been placed on what is called the national
16	Q Okay. Did you also work in a cancer	16	priorities list, which is a list of sites designated
17	research lab?	17	by the EPA that are the most serious, and the sites
18	A I did. After I worked at Eastman Kodak	18	that are most in need of cleanup, of the abandoned
19	and took a break, I then worked at a cancer research	19	hazardous waste sites in the country.
20	lab, also in Rochester.	20	Q What were some of the Superfund sites you
21	Q And what was the focus of your work there?	21	worked on?
22	A I was focusing on a very specific issue of	22	A At EPA, I that regional office focuses
23 24	trying to do chemical synthesis to come up with a new	23 24	on the states of Ohio, Michigan, Indiana, Illinois,
24	way to isolate RNA as part of cancer research studies.	25	Wisconsin, and Minnesota. I worked at sites in all six of those states. They included some sites where
2.5		2.5	
	7	1	9
1	Q Did you succeed?	1	organic chemicals were dumped either into rivers or
1 2	Q Did you succeed?A Not really.	2	organic chemicals were dumped either into rivers or streams, or they were contaminated groundwater like
	-	2 3	.
2 3 4	A Not really.Q Okay.A Partially.	2 3 4	streams, or they were contaminated groundwater like
2 3 4 5	A Not really.Q Okay.A Partially.Q And then you went and obtained your	2 3 4 5	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic
2 3 4 5 6	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? 	2 3 4 5 6	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There
2 3 4 5 6 7	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. 	2 3 4 5 6 7	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember
2 3 4 5 6 7 8	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was 	2 3 4 5 6 7 8	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating
2 3 4 5 6 7 8 9	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? 	2 3 4 5 6 7 8 9	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and
2 3 4 5 6 7 8 9	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with 	2 3 4 5 6 7 8 9	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the
2 3 4 5 6 7 8 9 10 11	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the 	2 3 4 5 6 7 8 9 10 11	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility.
2 3 4 5 6 7 8 9 10 11 12	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the 	2 3 4 5 6 7 8 9 10 11 12	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil
2 3 4 5 6 7 8 9 10 11 12 13	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. 	2 3 4 5 6 7 8 9 10 11 12 13	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution?
2 3 4 5 6 7 8 9 10 11 12 13 14	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? 	2 3 4 5 6 7 8 9 10 11 12 13 14	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did you become familiar with the regulatory standards
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my responsibility was to investigate and reach conclusions and provide recommendations to the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did you become familiar with the regulatory standards promulgated by the EPA for hazardous substance in chemicals and metals?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my responsibility was to investigate and reach conclusions and provide recommendations to the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did you become familiar with the regulatory standards promulgated by the EPA for hazardous substance in chemicals and metals? A As relates to Superfund, yes. I became
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my responsibility was to investigate and reach conclusions and provide recommendations to the managers of Superfund sites about the impacts that the Superfund sites were having on ecological 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did you become familiar with the regulatory standards promulgated by the EPA for hazardous substance in chemicals and metals?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 20 21 22 23	 A Not really. Q Okay. A Partially. Q And then you went and obtained your master's degree? A Yes. Q And after your master's degree, what was your work history? A My first job after my master's was with the U.S. Environmental Protection Agency in the regional office in Chicago, and I worked in the Superfund office. Q And you were there for roughly two years? A Two years, yes. Q And '90 to '92? A Yes. Q What were your responsibilities? A My position title was ecologist, and my responsibility was to investigate and reach conclusions and provide recommendations to the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	streams, or they were contaminated groundwater like the Kalamazoo River in Michigan, Fox River, Green Bay up in Wisconsin. There's a Moss-American site in Wisconsin I worked on where creosote and polycyclic aromatic hydrocarbons were the contaminant. There are also some metals sites where I can remember one site in Wisconsin that was an electroplating facility that heavily contaminated nearby stream and wetlands with metals that they dumped out of the facility. Q Did any of the sites involve oil pollution? A Very few, if any. Oil petroleum is excluded from Superfund regulation. So there may have been oil at the site, but that wasn't why it was a Superfund site. Q In the course of your work with EPA, did you become familiar with the regulatory standards promulgated by the EPA for hazardous substance in chemicals and metals? A As relates to Superfund, yes. I became familiar with the Superfund laws guidance the EPA has

3 (Pages 6 to 9)

	10		12
1	look at potential impacts to ecological resources.	1	Stratus, so that straddled the time period.
2	So, yes, I became familiar over time.	2	Q Okay. I'll try to get into your Stratus.
3	Q And I suppose that in those individual	3	Trying to take you chronologically here a little bit.
4	states there were also state regulations which would	4	Who were your clients at RCG?
5	apply to those to your work, or not?	5	A Well, RCG, to be clear, RCG was a fairly
6	A There are state regulations, but one of	6	large consulting company, did a lot of management
7	the powers of the Superfund law is that it supersedes	7	consulting, other things. So those kinds of clients
8	state or local laws. So if there were state	8	could have been many different kinds. Our particular
9	standards, for example, about how clean water can be,	9	practice, the environmental practice, our clients
10	we had to pay attention to that, but we're not bound	10	were government agencies, typically. In the
11	by it.	11	federal
12	Q What did you do after you left the EPA?	12	Q U.S. Fish and Wildlife Service?
13	A I joined a company called RCG Hagler	13	A U.S. Fish and Wildlife Service, National
14	Bailly, the last word is B-A-I-L-L-Y. It's a	14	Oceanic and Atmospheric Administration, Department of
15	consulting company. It was a consulting company in	15	Interior. We did a fair amount of work for EPA,
16	Boulder, Colorado.	16	although not the Natural Resource Damage Assessment
17	Q What type of work did you do for can I	17	because EPA does not have authority for that. But we
18	just shorten it to RCG?	18	did a lot more policy kind of work, cost benefit
19	A Please.	19	analysis for EPA.
20	Q What type of work did you do for RCG?	20	States were also big clients. State of
21	A I was hired as a, I would say, a junior	21	Montana, we did a large NRDA for worked for many,
22	level, maybe mid-level scientist. We worked on	22	many states over the years.
23	hazardous waste sites, typically Superfund sites, but	23	Q And then you indicated to us, in October
24	also some oil pollution sites.	24	of 1998, you left or formed, I didn't quite catch
25	And our focus was and still is on	25	what you said, Stratus?
	11		13
1	conducting environmental assessments on behalf of	1	A Correct. We I and several others
2	government agencies, federal, state, some	2	formed Stratus as the environmental, what had been
3	international governments. And we're hired typically	3	the environmental practice of RCG. We essentially
4	on litigation cases to provide expert, either expert	4	bought ourselves out and started Stratus. So we kept
5	witness or expert consulting services to help the	5	the same clients, we kept the same kind of work with
6	government agencies assess the impacts of pollution	6	Stratus, it was just under a new company name.
7	to the environment.	7	Q And what was your position with Stratus?
8	Q Was a fair amount of your work natural	8	A I don't remember what it was when we
9	resources damages estimates?	9	started.
10	A That's a specific term of art, yes, NRDA.	10	Q Okay. You're one of the founders?
11	Q Did you deal with hazardous waste sites at	11	A I was part of the start. I was an
12	RCG?	12	original shareholder, but my financial contribution
13		13	was less than others'. So I don't know how you
14	A Yes.		
	A res.Q Did you deal with any sites contaminated	14	define founders, but
15	Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil	15	define founders, but Q Well, I guess one of the people who
15 16	Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production?	15 16	Q Well, I guess one of the people who started the company. Were you one of the people who
15 16 17	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG 	15 16 17	Q Well, I guess one of the people who
15 16 17 18	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline 	15 16 17 18	Q Well, I guess one of the people whostarted the company. Were you one of the people whostarted the company?A Yeah, I was there at the start and part of
15 16 17 18 19	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the 	15 16 17 18 19	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes.
15 16 17 18 19 20	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the Guadalupe Oil Field in California on behalf of the 	15 16 17 18 19 20	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes. Q Okay. What is your position currently
15 16 17 18 19 20 21	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the Guadalupe Oil Field in California on behalf of the State of California. I think also the U.S. Fish and 	15 16 17 18 19 20 21	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes. Q Okay. What is your position currently with Stratus?
15 16 17 18 19 20 21 22	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the Guadalupe Oil Field in California on behalf of the State of California. I think also the U.S. Fish and Wildlife Service. And whether that was and that's 	15 16 17 18 19 20 21 22	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes. Q Okay. What is your position currently with Stratus? A Executive vice president.
15 16 17 18 19 20 21 22 23	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the Guadalupe Oil Field in California on behalf of the State of California. I think also the U.S. Fish and Wildlife Service. And whether that was and that's an oil development field contaminated with oil and 	15 16 17 18 19 20 21 22 23	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes. Q Okay. What is your position currently with Stratus? A Executive vice president. Q Okay. Are you the CFO?
15 16 17 18 19 20 21 22	 Q Did you deal with any sites contaminated by oil or chemicals or metals associated with oil exploration and production? A Yes. Although, I can't RCG RCG doesn't exist anymore. And somewhere in the timeline we formed Stratus Consulting in 1998. Worked at the Guadalupe Oil Field in California on behalf of the State of California. I think also the U.S. Fish and Wildlife Service. And whether that was and that's 	15 16 17 18 19 20 21 22	 Q Well, I guess one of the people who started the company. Were you one of the people who started the company? A Yeah, I was there at the start and part of that start, yes. Q Okay. What is your position currently with Stratus? A Executive vice president.

4 (Pages 10 to 13)

	14		16
1	Q Okay. What does Stratus Consulting do?	1	NRDA on behalf of Fish and Wildlife Service.
2	A We do environmental consulting work. Much	2	Q I believe you've told us before that all
3	of it is similar to the work I've already described	3	the projects you work on are projects that involve
4	in conducting assessments of environmental impacts of	4	environmental insult of some kind, most of them
5	hazardous waste sites, other kinds of environmental	5	contamination?
6	impacts such as climate change, cooling water intake	6	A That's correct.
7	structures. And we do this on behalf of federal,	7	Q And they involve evaluating the impacts of
8	state, international government agencies. We also do	8	that contamination both on the environment and on the
9	a fair amount of policy work. And this could be for	9	economics?
10	EPA, other government agencies, private foundations,	10	A My focus as a scientist is evaluating
11	international governments who are interested in some	11	impact on the environment. Stratus also has
12	expert help in thinking about and analyzing	12	economists. I work closely with them. They are
13	environmental policy issues.	13	typically responsible for determining the impact
14	Q What do you mean by policy work as	14	economically. So it's not me personally, but
15	compared to environmental assessment?	15	certainly on the projects I work on, yes.
16	A Environmental assessment typically is	16	Q Has your work at a Stratus dealt with
17	focused on a specific site or a specific problem.	17	contamination resulting from hydrocarbons
18	Policy work is broader. It addresses how a	18	contaminating or oil spills?
19	government agency regulates or will regulate	19	A Yes.
20	environmental issues. So it's typically not	20	Q Did you work for the National Oceanic and
21	addressed at a specific site.	21	Atmospheric Administration on assessing environmental
22	And it also has to do with regulations or	22	impacts from oil or hazardous substances?
23	rules and how the government will monitor or regulate	23	A Yes.
24 25	environmental issues.	24 25	Q Is an example of that the BP?
25	Q And you performed work in China, South	2.5	A Yes, we have a we currently have a 17
	15		
1	Africa, the EU, places of that nature?	1	contract with NOAA to assess the environmental
2	A Not me personally.	2	impacts from the BP spill in the Gulf. We also have
3	Q Stratus?	3	a contract with U.S. Fish and Wildlife Service to do
4	A Stratus has. I don't recall South Africa,	4	the same, State of Louisiana, State of Florida and
5 6	although I think we've done some climate change work	5	Department of Justice.
7	in South Africa. Although I think we've done some climate change work in South Africa.	7	Q Can you tell us whether or not, as a
8	Q How about South America?	8	result of your education and work experience, you've developed expertise in evaluating impacts of oil
9	A South America, yes. So our climate change	9	pollution and contamination on the environment?
10	work, we've done all over the world. Our	10	A Yes, yes, I have. Again, on the
11	environmental assessment work we've done in the U.S.,	11	environment, not humans, per se. It's not my area of
12	in China, in the EU, in South America. That's all I	12	expertise. But certainly on the environment, yes.
13	can recall.	13	Q Have you developed expertise in assessing
14	Q Have you worked for the U.S. Fish and	14	the cost to remove oil pollution and contamination in
15	Wildlife Service? Have you done work for them?	15	the environment?
16	A Yes.	16	MR. SELEY: Objection. Relevance.
17	Q Were you project manager of the Fox River	17	A Evaluating the cost of cleanup is
18	Green Bay case?	18	something we have to do at many sites. In some
19	A Yes.	19	cases, in NRDA, the damages, the environmental
20	Q And I think you mentioned that earlier?	20	damages, are in fact the cost to clean up. So on
21	A Yes, I mentioned it earlier. I worked on	21	several cases, we have had to I have had to
22	that site. It's a large site in Wisconsin where the	22	evaluate the cost to clean up environmental
23	river and bay and Lake Michigan are contaminated with	23	contamination. As part of that, yes, I have
24	PCBs. I worked on that site when I was at EPA. I	24	developed expertise.
25	also worked on that then as a project manager for the	25	Q (BY MR. SMYSER) Have you developed

5 (Pages 14 to 17)

	18		20
1	expertise with respect to the environmental	1	MR. GREEN: Hold on. He may answer the
2	regulations and standards used to assess oil	2	question, but I am cautioning the witness not to
3	pollution and contamination in the environment?	3	divulge any communications between he, the witness,
4	MR. SELEY: Objection.	4	and his attorneys.
5	A I have. I have worked less with	5	MR. SMYSER: Okay.
6	environmental regulations for oil and petroleum	6	Q (BY MR. SMYSER) Is it a fact that one of
7	contamination. That tends to be regulated at the	7	the reasons you decided not to serve as an expert
8	state level. And I am not very familiar with all the	8	witness in this case was because you had been sued as
9	different state regulations. But at the federal	9	a RICO defendant in this case?
10	level, the Oil Pollution Act, I am familiar with it.	10	A Yes, that's correct.
11	Q (BY MR. SMYSER) Okay. Let's switch to	11	Q Okay. Now, I would like to discuss with
12	your work and Stratus's consulting work in the	12	you the role that you and Stratus Consulting served
13	Ecuador litigation. Are you with me?	13	during the Lago Agrio litigation in Ecuador. Do you
14	A Yes.	14	know what I mean by the Lago Agrio litigation?
15	MR. SELEY: Before we get started on this	15	A Yes, I think I do. It's the lawsuit
16	topic, I just want to interpose an objection to the	16	brought by the plaintiffs in Ecuador against Chevron
17	extent you're asking him about anything beyond his	17	in Ecuador.
18	personal knowledge. To the extent that calls for	18	Q It's brought by the indigenous peoples in
19	expert testimony or eliciting expert testimony for	19	the Amazon rainforest against Ecuador I mean,
20	this case, he hasn't been identified as an expert in	20	against Chevron-Texaco for their claim that over some
21	the case. He hasn't submitted an expert report.	21	three decades the oil exploration and production
22	And we'll object to any of the testimony	22	activities of Chevron-Texaco in their lands despoiled
23	with regard to his expertise or anything beyond his	23	their environment.
24	personal knowledge.	24	MR. SELEY: Objection. Misstates facts.
25	MR. SMYSER: Okay. And my response to	25	Is this your testimony, sir, or are you asking the
	19		21
1	19 that is, as you know, we have identified him as a	1	21 witness?
1 2	-	1 2	
	that is, as you know, we have identified him as a	1	witness?
2	that is, as you know, we have identified him as a non-retained expert witness. And his personal	2	witness? MR. SMYSER: I'm asking the witness.
2 3 4 5	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of	2 3 4 5	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a
2 3 4 5 6	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his	2 3 4 5 6	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago
2 3 4 5 6 7	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear	2 3 4 5 6 7	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be?
2 3 4 5 6 7 8	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a	2 3 4 5 6 7 8	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection.
2 3 4 5 6 7 8 9	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct?	2 3 4 5 6 7 8 9	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to
2 3 4 5 6 7 8 9	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes.	2 3 4 5 6 7 8 9 10	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking
2 3 4 5 6 7 8 9 10 11	that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we?	2 3 4 5 6 7 8 9 10 11	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're
2 3 4 5 6 7 8 9 10 11 12	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. 	2 3 4 5 6 7 8 9 10 11 12	witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about.
2 3 4 5 6 7 8 9 10 11 12 13	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on 	2 3 4 5 6 7 8 9 10 11 12 13	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that
2 3 4 5 6 7 8 9 10 11 12 13 14	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its resulting impacts on people and the environment,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. Q You declined to serve as an expert witness 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its resulting impacts on people and the environment, caused by Texaco's operations in the concession in Ecuador.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. Q You declined to serve as an expert witness on behalf of the Ecuadorians in this current case? A That is correct. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its resulting impacts on people and the environment, caused by Texaco's operations in the concession in Ecuador.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. Q You declined to serve as an expert witness on behalf of the Ecuadorians in this current case? A That is correct. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its resulting impacts on people and the environment, caused by Texaco's operations in the concession in Ecuador. Q And you were Stratus was hired to serve
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 20 21 22 23	 that is, as you know, we have identified him as a non-retained expert witness. And his personal opinions as a matter of past history are a matter of fact in the case. And I intend to ask him about his personal opinions in the past, not about any current opinions. But I understand your objection. Q (BY MR. SMYSER) Well, and let me clear that up. You're here today as a result of a subpoena; is that correct? A Yes. Q You and I have never spoken, have we? A No. Q This is the first time we've laid eyes on each other. A Yes. Q You're aware that I asked your lawyer whether or not you would be willing to serve as an expert witness in this case? A Yes. Q You declined to serve as an expert witness on behalf of the Ecuadorians in this current case? A That is correct. Q And you did that in part because you've 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 witness? MR. SMYSER: I'm asking the witness. MR. SELEY: Well, then, ask the witness and let him describe in his words. Q (BY MR. SMYSER) I'm asking, is that a fair description of what you understand the Lago Agrio litigation to be? MR. SELEY: Objection. Same objection. A If the purpose of the question is to identify which litigation of the many we're talking about, yes, that's the litigation I understand we're here to talk about. Q Okay. How would you describe that litigation? A That litigation is a case brought by Ecuadorian plaintiffs, including indigenous people, also local residents, against Chevron, filed in Ecuador for the environmental contamination and its resulting impacts on people and the environment, caused by Texaco's operations in the concession in Ecuador. Q And you were Stratus was hired to serve as expert witnesses in that case?

6 (Pages 18 to 21)

VERITEXT REPORTING COMPANY www.veritext.com

ĥ

	22		24
1	that we were hired as expert witnesses. We certainly	1	the extent of the contamination. Where was there
2	provided expert consulting services. I don't know	2	contamination, what were the likely causes. What
3	that I was ever designated an expert witness in the	3	exactly was the contamination from a chemical
4	Ecuadorian court, but I don't know how it works in	4	perspective. And developed opinions about the likely
5	the Ecuadorian court system. So I don't know if I	5	causes of that contamination.
6	didn't give any testimony in the Ecuadorian court.	6	We also conducted work on what could be
7	So to my knowledge, I wasn't an expert witness	7	done to address the impacts of the contamination,
8	designated to the Court.	8	both from a cleanup perspective and also assessing
9	Q (BY MR. SMYSER) What was your	9	compensation that might be due the people in that
10	understanding of why you were hired in the case?	10	region for living with the contamination for as long
11	A To provide expert consulting services to	11	as they had.
12	the Ecuadorian plaintiffs.	12	Q As to that last part, did you analyze the
13	Q And did you do that?	13	remediation necessary to remove the pollution and
14	A Yes.	14	contamination that you found?
15	Q And, in fact, do you remember whether or	15	MR. SELEY: Objection. Misstates prior
16	not Stratus reports were filed in the record in	16	testimony.
17	Ecuador? Do you have personal knowledge about that	17	A I'm sorry, could you repeat the question?
18	one way or the other?	18	Q (BY MR. SMYSER) Sure. As part of your
19	A I don't know that any Stratus reports were	19	work, did you or did you not analyze the remediation
20	filed in the record in Ecuador. Work that we	20	necessary to remove pollution and contamination?
21	conducted was filed through the Cabrera report, but I	21	A We yes, I was part of analyzing the
22	don't know that any Stratus reports themselves were	22	soil cleanup, what was needed to what is needed to
23	filed with the Court.	23	clean up the contaminated soil. Also looked at
24	Q Okay. We'll get to that in a little bit.	24	cleanup of river and stream sediments and considered
25	A Okay.	25	cleanup of groundwater.
	23		95
	23		25
1	Q When did your work begin?	1	2⊃ Q Did you or Stratus, on the basis of your
1 2		1 2	
	Q When did your work begin?		Q Did you or Stratus, on the basis of your
2	Q When did your work begin?A In 2007.	2	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the
2 3	Q When did your work begin?A In 2007.Q What was your role personally?	2 3 4 5	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's
2 3 4 5 6	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what 	2 3 4 5 6	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession?
2 3 4 5 6 7	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for 	2 3 4 5 6 7	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper
2 3 4 5 6 7 8	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on 	2 3 4 5 6 7 8	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead.
2 3 4 5 6 7 8 9	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. 	2 3 4 5 6 7 8 9	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused
2 3 4 5 6 7 8 9	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific 	2 3 4 5 6 7 8 9 10	Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or
2 3 4 5 6 7 8 9 10 11	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? 	2 3 4 5 6 7 8 9 10 11	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any
2 3 4 5 7 8 9 10 11 12	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. 	2 3 4 5 6 7 8 9 10 11 12	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had
2 3 4 5 6 7 8 9 10 11 12 13	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? 	2 3 4 5 6 7 8 9 10 11 12 13	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What 	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only looking at the data that had been collected by 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections. A That conclusion is that Texaco did cause
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only looking at the data that had been collected by others, that included historical data prior to the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections. A That conclusion is that Texaco did cause environmental contamination as a result of their
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only looking at the data that had been collected by others, that included historical data prior to the trial, data collected during the trial, data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections. A That conclusion is that Texaco did cause environmental contamination as a result of their operations.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only looking at the data that had been collected by others, that included historical data prior to the trial, data collected during the trial, data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections. A That conclusion is that Texaco did cause environmental contamination as a result of their operations. Q Did you reach a conclusion as to whether
2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 8 9 20 21 22 23	 Q When did your work begin? A In 2007. Q What was your role personally? A I was Stratus's project manager and what we call officer in charge, which means, as the project manager I was responsible for our day-to-day work. And as the officer, I was also responsible for our overall financial and scientific performance on the project. Q Were you responsible for the scientific and technical work product? A Yes. Q Can you summarize for me what Stratus did? And I don't mean your ultimate conclusions. What your work was. A Sure. Our work was to evaluate the data on environmental contamination and information on Texaco's operation that led to that contamination. We didn't collect any data ourselves. We were only looking at the data that had been collected by others, that included historical data prior to the trial, data collected during the trial, data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q Did you or Stratus, on the basis of your work, reach any conclusions about whether or not the environment had been contaminated during Texaco's work, in the concession? MR. SELEY: Objection. Calls for improper expert testimony. And objection to relevance and compound. Go ahead. A I'm sorry, was the question what caused contamination or Q (BY MR. SMYSER) No. Did you reach any conclusions about whether or not the environment had been contaminated during Texaco's work in the concession, by their work in the concession? MR. SELEY: Same objections. A Yes, I did. Q (BY MR. SMYSER) And what was that conclusion? MR. SELEY: Same objections. A That conclusion is that Texaco did cause environmental contamination as a result of their operations.

7 (Pages 22 to 25)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	26		28
1	MR. SELEY: Same objections.	1	presentation on April 7, 2010, is the date on here.
2	A Yes.	2	MR. SELEY: Hold on, before you ask any
3	Q (BY MR. SMYSER) And what was your	3	questions about this, has this document previously
4	conclusion?	4	been produced to us?
5	MR. SELEY: Same objections.	5	MR. SMYSER: Yeah, you produced it.
6	A That the way that Texaco operated that oil	6	MR. SELEY: I just want to know, this
7	field was substandard by industry practices. They	7	exact document?
8	used practices that were common in the early 1900s,	8	MR. SMYSER: Yeah.
9	but by the time they were conducting the operations	9	MR. SELEY: Because there were a handful
10	in Ecuador, these practices were not typically used,	10	of different documents that looked something like
11	certainly in the U.S., and in most places in the	11	that.
12	world.	12	MR. SMYSER: My understanding is that you
13	Q (BY MR. SMYSER) Did you reach conclusions	13	produced this document. We're using today a copy
14	as to whether or not Texaco's operations in the	14	produced by Chevron.
15	concessions contaminated and polluted the Amazonian	15	MR. SELEY: Okay. It didn't have a Bates
16	rainforest, rivers, streams, soil and groundwater, at	16	number on it.
17	both well sites and production stations?	17	MR. SMYSER: Yeah, I actually tried to
18	MR. SELEY: Same objections.	18	remove the Bates tried to get a copy that didn't
19	A Yes.	19	have the Bates numbers on it.
20	Q (BY MR. SMYSER) And what were your	20	MR. SELEY: Well, do you know what Bates
21	conclusions at that time?	21	number it was?
22	MR. SELEY: Same objections.	22	MR. SMYSER: I will get it for you. I
23	A That those particular resources you	23	don't know
24	mentioned, and places, groundwater, streams,	24	MR. SELEY: I appreciate that.
25	rainforest and wells and stations, they all were	25	MR. SMYSER: off the top of my head.
	27		20
	27		29
1	contaminated by Texaco's operations.	1	THE REPORTER: One at a time, please.
1 2		1	
	contaminated by Texaco's operations.		THE REPORTER: One at a time, please.
2	contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped	2	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry.
2 3	contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel	2 3	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I
2 3 4	contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes.	2 3 4	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think.
2 3 4 5 6 7	contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results?	2 3 4 5 6 7	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great.
2 3 4 5 6 7 8	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. 	2 3 4 5 6 7 8	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling
2 3 4 5 6 7 8 9	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. 	2 3 4 5 6 7 8 9	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay.
2 3 4 5 6 7 8 9 10	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some 	2 3 4 5 6 7 8 9	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming
2 3 4 5 6 7 8 9 10 11	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has 	2 3 4 5 6 7 8 9 10 11	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it
2 3 4 5 6 7 8 9 10 11 12	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. 	2 3 4 5 6 7 8 9 10 11 12	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it.
2 3 4 5 6 7 8 9 10 11 12 13	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) 	2 3 4 5 6 7 8 9 10 11 12 13	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the 	2 3 4 5 6 7 8 9 10 11 12 13 14	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SELEY: Yeah. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SELEY: Yeah. MR. SMYSER: Thank you. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SELEY: Yeah. MR. SMYSER: Thank you. Q (BY MR. SMYSER) And we've got a copy of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SELEY: Yeah. MR. SMYSER) And we've got a copy of it up on the screen in front of you, so you can look 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay. Q Let's go to the first page. Can you tell
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SMYSER) And we've got a copy of it up on the screen in front of you, so you can look at it that way. And I'm wondering if you could 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay. Q Let's go to the first page. Can you tell us what you have got on the first page there, where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SMYSER) And we've got a copy of it up on the screen in front of you, so you can look at it that way. And I'm wondering if you could identify this for us. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay. Q Let's go to the first page. Can you tell us what you have got on the first page there, where it says outline?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SELEY: Yeah. MR. SMYSER: Thank you. Q (BY MR. SMYSER) And we've got a copy of it up on the screen in front of you, so you can look at it that way. And I'm wondering if you could identify this for us. A This is a presentation that I put together 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay. Q Let's go to the first page. Can you tell us what you have got on the first page there, where it says outline? A Yes. This page is an outline of the rest
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 contaminated by Texaco's operations. Q (BY MR. SMYSER) At the time you stopped your work on the Lago Agrio litigation, did you feel that Stratus had discharged its responsibilities in a competent and professional manner? A Yes. Q Did you stand by those results? MR. SELEY: Objection. Vague. A Yes, I did then and I still do. Q (BY MR. SMYSER) Let me now get into some particulars, if I might. Let me hand you what has been marked as Exhibit 1. (Exhibit 1 marked.) MR. SELEY: Do you want to trade the marked copy? MR. GREEN: Oh, you have the marked copy? MR. SMYSER) And we've got a copy of it up on the screen in front of you, so you can look at it that way. And I'm wondering if you could identify this for us. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE REPORTER: One at a time, please. MR. SELEY: I'm sorry. MR. SMYSER: I can satisfy you now, I think. MR. SELEY: That would be great. MR. SMYSER: CVX-RICO-2268146. MR. SMYSER: CVX-RICO-2268146. MR. SELEY: I'm not familiar with that Bates number styling MR. SMYSER: Okay. MR. SELEY: as a Bates number coming from one of our document productions. If it is it may just be that I'm not familiar with it. MR. SMYSER: Okay. MR. SMYSER: Okay. MR. SELEY: Okay. MR. SMYSER: Fair enough. Q (BY MR. SMYSER) If you would, I would like to ask you to help walk us through this presentation. A Okay. Q Let's go to the first page. Can you tell us what you have got on the first page there, where it says outline?

Ī

8 (Pages 26 to 29)

	30		32
1	presentation will cover the various items represented	1	A I have heard and seen video that sour lake
2	by the little square boxes?	2	is the first well production site where Texaco got
3	A That's correct.	3	its start in Texas.
4	Q Okay. Let's go to the first the next	4	Q About 60 miles from where I live now.
5	slide. And that's entitled Stratus Consulting?	5	Lago Agrio was in Texas called Sour Lake.
6	A Yes.	6	What do you mean by concession?
7	Q Who we are. I think you've already told	7	MR. SELEY: Objection. Calls for expert
8	us who you are. And we've discussed your involvement	8	testimony.
9	in the case?	9	A The term concession is how the area is
10	A Um-hum.	10	referred to. I'm not sure what the Spanish
11	Q Let's go to the next slide. Texaco	11	equivalent is, but it's the boundaries that set aside
12	history in Ecuador. Let's go to the next slide.	12	the area where Texaco had permission or a contract
13	Can you tell us what that slide	13	with the government of Ecuador to operate.
14	represents?	14	Q And that was your understanding as a
15	MR. SELEY: Objection. I think you're	15	matter of fact as to what the territory the
16	trying to elicit expert testimony from Mr. Beltman	16	government had granted Texaco in which to operate?
17	because the document seems to speak for itself	17	MR. SELEY: Objection. Vague.
18	otherwise.	18	A That's my understanding, yes.
19	Q (BY MR. SMYSER) You can answer the	19	Q (BY MR. SMYSER) Let's turn to the next
20	question.	20	slide. This is called Texaco's oil field operations
21	A This is a map showing Ecuador. And	21	in Ecuador. Could you tell us the purpose of this
22	highlighted in the northeastern portion of Ecuador in	22	slide?
23	the rainforest is the concession within which Texaco	23	A This is to summarize the scale of Texaco's
24	operated.	24	operations in Ecuador and the time line.
25	Q I see on the map that there are smaller	25	Q All right. How many wells did Texaco
	31		33
1	names like Sucumbios, Napa or Napo?	1	drill in the concession area?
2	A Yes.	2	MR. SELEY: Objection. Calls for expert
3	Q What do those represent?	3	testimony.
4	MR. SELEY: Objection. Calls for expert	4	A The information that I have seen says that
5	testimony.	5	they have drilled they drilled and operated 356
6	A Those are provinces within Ecuador or	6	oil wells. And as the slide says, they also built 22
7	counties, maybe. They're political subdivisions	7	what are called production stations where the
8	within Ecuador.	8	oil-water-gas mixture was processed.
9	Q (BY MR. SMYSER) All right. And the	9	Q (BY MR. SMYSER) Did you obtain that
10	judgment in this case comes from the Province of	10	information from documents from Texaco?
11	Sucumbios, which is up in the, I guess, is that the	11	A There are documents from Texaco,
12	northeast corner?	12	environmental audits in which they these are
		13	contractors to Tayloo and they have counts of wells
13	A Northeast, yes.		contractors to Texaco and they have counts of wells
14		14	and stations that are similar to these numbers, but I
14 15	A Northeast, yes.Q We see there one city called Nueva Lojaand in parens, Lago Agrio. Is that the location of	14 15	and stations that are similar to these numbers, but I don't know if they exactly match these numbers.
14 15 16	A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation?	15 16	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco
14 15 16 17	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert 	15 16 17	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells,
14 15 16 17 18	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. 	15 16 17 18	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production
14 15 16 17 18 19	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know 	15 16 17 18 19	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990?
14 15 16 17 18 19 20	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know of any other Lago Agrio in this area. 	15 16 17 18 19 20	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990? A Yes.
14 15 16 17 18 19 20 21	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know of any other Lago Agrio in this area. Q (BY MR. SMYSER) Do you know what Lago 	15 16 17 18 19 20 21	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990? A Yes. MR. SELEY: Objection. Calls for expert
14 15 16 17 18 19 20 21 22	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know of any other Lago Agrio in this area. Q (BY MR. SMYSER) Do you know what Lago Agrio means? 	15 16 17 18 19 20 21 22	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990? A Yes. MR. SELEY: Objection. Calls for expert testimony.
14 15 16 17 18 19 20 21 22 23	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know of any other Lago Agrio in this area. Q (BY MR. SMYSER) Do you know what Lago Agrio means? A I believe it means sour lake. 	15 16 17 18 19 20 21 22 23	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990? A Yes. MR. SELEY: Objection. Calls for expert testimony. A Yes, that's correct.
14 15 16 17 18 19 20 21 22	 A Northeast, yes. Q We see there one city called Nueva Loja and in parens, Lago Agrio. Is that the location of the Lago Agrio that gave the name to this litigation? MR. SELEY: Objection. Calls for expert testimony. A That's my understanding, yes, I don't know of any other Lago Agrio in this area. Q (BY MR. SMYSER) Do you know what Lago Agrio means? 	15 16 17 18 19 20 21 22	and stations that are similar to these numbers, but I don't know if they exactly match these numbers. Q It's your understanding, then, that Texaco has drilled and operated somewhere around 350 wells, oil wells, and built somewhere around 20 production stations from 1967 to 1990? A Yes. MR. SELEY: Objection. Calls for expert testimony.

9 (Pages 30 to 33)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	34		36
1	A Petroequador is a government-run, oil-	1	you obtained the information that comprises the bar
2	producing entity run by the government of Ecuador.	2	graph on this slide?
3	Q And you say they took over operations in	3	A Yes. We received a table that had this
4	1990. What do you mean by that?	4	information in it from some technical people in the
5	A From the documents I've read, in 1990	5	FDA office in Quito, the Defensa de la Amazona.
6	Texaco handed over the day-to-day and overall	6	Q It looks like in 1973 was the year of
7	operations of the oil field to Petroequador.	7	maximum number of wells opened and operated by
8	Q And then your next sentence or clause	8	Texaco?
9	indicates that Texaco was out of the consortium in	9	MR. SELEY: Objection. Are you asking
10	1992. What did you mean by that?	10	based on his personal knowledge or just what the
11	A From the documents I've read, the	11	graph shows?
12	consortium is the group of oil companies and the	12	A Yes, that's correct.
13	government of Ecuador that together had some sort of	13	MR. SELEY: Okay. Move to strike.
14	jurisdiction over the oil field. And Texaco was no	14	Q (BY MR. SMYSER) Let's look at the next
15	longer a part of that consortium in 1992.	15	slide. This slide looks like another map. Is that
16	Q What does it mean to be an operator of an	16	what it is?
17	oil well?	17	A Yes, it is. It is another map.
18	MR. SELEY: Objection. Calls for expert	18	Q And what is the purpose of the slide? You
19	testimony.	19	better take us through the little identifiers which
20	Q (BY MR. SMYSER) What was your	20	appear to be telling us something about wells.
21	understanding at the time, of what it meant to be an	21	MR. SELEY: Objection. Calls for expert
22	operator of an oil well?	22	testimony.
23	MR. SELEY: Same objection.	23	A Okay. This is a I'm sorry, could we
24	A My understanding of this at this	24	zoom back?
25	particular place in the world, Texaco had the	25	Q (BY MR. SMYSER) Sure.
	35		37
1	authority to make the decisions about how the oil	1	A This is a map that is now a blowup of the
2	field was to be operated. They determined how to	2	concession area where Texaco operated. And we see on
3	operate each well, how to handle the waste at the	3	this map each colored circle is an oil production
4	wells, manage the day-to-day operations. They in	4	well opened and operated by Texaco. And you can see
5	essence were in charge of how this oil field	5	that the oil wells are grouped in different areas.
6	operated.	6	And these groups represent different fields or
7	Q Who made the decisions at the oil wells	7	specific areas of operations. And they're
8	about how to handle and dispose of oil well waste?	8	color-coded.
9	MR. SELEY: Objection. Calls for expert	9	So, for example, Shushufindi is an area
10	testimony.	10	where there was a lot of oil well drilling, a lot of
11	A From the documents I've read, I don't know	11	oil production. And that's separate from the Sacha
12	any individual, if that's what you mean.	12	area. And, again, each circle is an oil production
13	Q (BY MR. SMYSER) No, no.	13	well.
14 15	A In general, Texaco was responsible for	14 15	In the yellow
15 16	those decisions.	16	Q Excuse me. I don't mean to interrupt
17	Q Let's look at the next slide. This slide	17	A Yeah. Q but the Sacha wells appear to have sort
18	is headed wells opened and operated by Texaco. What is the purpose of this slide and the information	18	Q but the Sacha wells appear to have sort of a green color?
19	conveyed by it?	19	A Correct.
20	MR. SELEY: Objection. Calls for expert	20	Q And then the Shushufindi has kind of a
21	testimony.	21	purple color?
22	A This slide is a graph. It shows how many	22	A Correct.
23	51	23	
24		24	3 3 4 3 4 3
25	Q (BY MR. SMYSER) And do you recall where	25	Q Okay. I'm sorry I interrupted. I'm
23 24	wells were opened by year during the period when Texaco operated the oil field in Ecuador.	23 24	Q And Lago Agrio is, I guess, orange?A Yeah, orange-ish.

10 (Pages 34 to 37)

VERITEXT REPORTING COMPANY www.veritext.com

Ī

	38		40
1	trying to understand what the colors mean. That's a	1	pun, a crude schematic of Texaco operations. Could
2	grouping of oil wells?	2	you describe what this represented? And did it
3	A Correct. You can see that the oil wells	3	represent how you understood Texaco operations worked
4	are not spread out evenly over the area of the	4	at the time?
5	concession. They're grouped. And they're grouped	5	MR. SELEY: Objection. Calls for expert
6	according to where putting an oil well will produce	6	testimony.
7	the most oil. So it's not that there's oil	7	A Yes, this is a schematic that depicts what
8	everywhere under here necessarily, but because of the	8	I have read describing how Texaco operated this
9	groupings of the oil wells, it's in pockets.	9	field. You can see the individual wells. And from
10	Q And I also notice that there are a number	10	each of these wells, along with the crude oil, comes
11	of what appear to be blue lines and probably rivers.	11	produced water and gas.
12	Those represent rivers?	12	Q (BY MR. SMYSER) And is there a pipeline
13	A Yes, the blue lines are rivers.	13	or something that connects the well to the station?
14	Q Is this part of the Amazon River basin?	14	A Yes. Each well has a pipeline that runs
15	A Yes.	15	to the station. And at the station the gas and the
16	MR. SELEY: Objection. Calls for expert	16	crude oil and the produced water are separated.
17	testimony.	17	Q Okay. And you have a yellow line that
18	A All of the surface water in this area	18	goes up to a little gas which looks like a flame
19	flows toward the east and eventually joins the Amazon	19	coming out of it.
20	River.	20	A That represents my understanding of how
21	Q (BY MR. SMYSER) What else is shown on	21	Texaco handled the gas that came out of the wells.
22	this map?	22	They would typically flare them in basically pipes
23	MR. SELEY: Same objection.	23	that were set on fire. And they would burn the gas
24	A Also shown are some of the towns. You see	24	off of that. Although I've also read in Texaco
25	Lago Agrio up in the middle-upper portion. El Coca	25	documents that the flares didn't operate all the
	39		41
1	is another town in the area. We also see in yellow	1	time. Sometimes they just vented the gas directly
1 2	is another town in the area. We also see in yellow squares what are called the processing stations. And	1 2	
	-	1	time. Sometimes they just vented the gas directly
2	squares what are called the processing stations. And	2	time. Sometimes they just vented the gas directly into the atmosphere.
2 3	squares what are called the processing stations. And these are the locations where the oil-water-gas	2 3	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike.
2 3 4	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual	2 3 4	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your
2 3 4 5 6 7	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed.	2 3 4 5 6 7	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations,
2 3 4 5 6 7 8	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in	2 3 4 5 6 7 8	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the	2 3 4 5 6 7 8 9	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time?
2 3 4 5 6 7 8 9 10	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the	2 3 4 5 6 7 8 9 10	time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to
2 3 4 5 6 7 8 9 10 11	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast.	2 3 4 5 6 7 8 9 10 11	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields.
2 3 4 5 6 7 8 9 10 11 12	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike	2 3 4 5 6 7 8 9 10 11 12	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own
2 3 4 5 6 7 8 9 10 11 12 13	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other	2 3 4 5 6 7 8 9 10 11 12 13	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas
2 3 4 5 6 7 8 9 10 11 12 13 14	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map.	2 3 4 5 6 7 8 9 10 11 12 13 14	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based on your own personal eyeball, smell, touch, feel,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Next, I would like you to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based on your own personal eyeball, smell, touch, feel, sensory impact when you visited them?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Next, I would like you to tell us about the dark blue, I'm a little color
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based on your own personal eyeball, smell, touch, feel, sensory impact when you visited them? A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Next, I would like you to tell us about the dark blue, I'm a little color blind, maybe that's a purple line, arrow, that goes
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based on your own personal eyeball, smell, touch, feel, sensory impact when you visited them? A Yes. MR. SELEY: Objection. Vague.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Next, I would like you to tell us about the dark blue, I'm a little color blind, maybe that's a purple line, arrow, that goes from the station to the river with the legend
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	squares what are called the processing stations. And these are the locations where the oil-water-gas mixture that was produced from each of the individual wells were sent and then separated and processed. And we also see some of the pipelines in the area, in the reddish-salmony lines. You can see a pipeline that runs north-south. And then the pipeline that runs east-west in the upper part of the figure runs to the coast, and that's carrying the crude oil from the field to the Pacific coast. MR. SELEY: I'm going to move to strike the response to the extent it does anything other than identify the marks on the map. Q (BY MR. SMYSER) Let me ask you, did you travel to any of these areas yourself personally? A Yes, I did. Q All right. So you're familiar with these locations based on, or at least some of them, based on your own personal eyeball, smell, touch, feel, sensory impact when you visited them? A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 time. Sometimes they just vented the gas directly into the atmosphere. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Based on your understanding of industry practice and regulations, was flaring gas to the environment an accepted practice at that time? MR. SELEY: Objection. Calls for expert testimony. A I've seen descriptions of flaring gas to the environment at that time in many oil fields. What I have read in Texaco's documents, their own audits, is that, first of all, venting the gas directly to the atmosphere was not standard. And, also, their field auditors noticed that many of the flaring apparatuses were poorly maintained and were causing quite a bit of contamination, both around the flare and into the atmosphere. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Next, I would like you to tell us about the dark blue, I'm a little color blind, maybe that's a purple line, arrow, that goes

11 (Pages 38 to 41)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	42		44	4
1	testimony.	1	pipelines?	
2	A Produced water is water that comes up out	2	MR. SELEY: Objection. Calls for expert	
3	of the wells along with oil. The water occurs in the	3	testimony. No personal knowledge.	
4	underground formation along with the crude oil, and	4	A Yes.	
5	it's not unique to this oil field. You can read	5	Q (BY MR. SMYSER) And what did you learn	
6	about produced water in just about every oil field.	6	with respect to whether there were oil spills?	
7	Here, Texaco, after they separated the	7	MR. SELEY: Same objections.	
8	produced water from the crude oil, they dumped the	8	A I have read that there were oil spills	
9	produced water essentially out the back of each of	9	from pipelines. I've read some personal accounts of	
10	the processing stations, and either directly or after	10	rivers contaminated with oil from pipeline breaks.	
11	flowing through some streams, that produced water	11	I've also seen some spills from current operations	
12	made it into rivers.	12	myself.	
13	MR. SELEY: Move to strike.	13	MR. SELEY: Move to strike as hearsay.	
14	Q (BY MR. SMYSER) Does that mean that	14	Q (BY MR. SMYSER) Does crude oil spilled in	
15	during the operation of these stations, the produced	15	the environment contain chemicals which are hazardous	
16	water was dumped directly into streams?	16	to the environment?	
17	MR. SELEY: Objection. Calls for expert	17	MR. SELEY: Objection. Calls for expert	
18	testimony.	18	testimony.	
19	A Yes.	19	A Yes.	
20	MR. SELEY: Move to strike.	20	MR. SELEY: Move to strike.	
21	Q (BY MR. SMYSER) And was, as best you	21	Q (BY MR. SMYSER) Does it contain chemicals	
22	could determine, that a regular practice at Texaco's	22	that are hazardous to animal life?	
23	producing stations throughout the concession?	23	A Yes.	
24 25	MR. SELEY: Objection. Calls for expert	24 25	MR. SELEY: Objection. Calls for expert	
25	testimony. No personal knowledge.	25	testimony. Move to strike.	_
	43		45	5
1	A I've seen I've seen the pipes where	1	Q (BY MR. SMYSER) Was it your opinion that	
2	they did the dumping at some of the stations. I've	2	at the time the oil spills would present a hazard to	
3	also read Texaco's reports where they say that they	3	the environment where those spills occurred?	
4	did dump all the produced water directly.	4	MR. SELEY: Objection. Calls for expert	
5	MR. SELEY: Move to strike.	5	testimony and vague.	
6	Q (BY MR. SMYSER) What stations did you	6	A Specific to the spills from pipelines in	
7	particularly personally observe pipelines that took	7	the streams or the rivers, I haven't seen any data	
8	produced water into the streams?	8	that describes those spills very well. The only	
9	A I have seen the pipes at Sacha Central,	9	descriptions I've seen are the personal accounts	
10 11	Sacha Sur, or Sacha South. That's all I can recall	10 11	where people have described the rivers running black,	
12	right now. Q Okay. Your last arrow has crude, and it	12	which means that oil is running along the top of the river.	
13	goes up to a dark black line to Esmeraldas. What	13	It's hard to say without data whether it	
14	does that mean?	14	would be hazardous to the environment. I know from	
15	MR. SELEY: Objection. Calls for expert	15	experience at oil spills that this particular this	
16	testimony.	16	kind of crude oil, it's a medium crude oil. It	
17	A The crude oil that came up out of the	17	contains things like benzene which are toxic. When	
18	wells and then was separated at the stations was	18	it's spilled in the environment it can cause	
19	piped to Esmeraldas, which is a town on the coast of	19	toxicity, certainly. These particular spills in the	
20	Ecuador, and piped through what is called the Trans	20	river, I don't think I've seen data where I could say	
21	Ecuadorian Pipeline. And from there it was put in	21	yes, it was in fact causing toxicity.	
22	oil ships and sent to refineries.	22	MR. SELEY: Move to strike the portions of	
23	Q (BY MR. SMYSER) In the course of your	23	that that were hearsay.	
24				
24 25	work in the concession, did you ever have occasion to	24 25	Q (BY MR. SMYSER) Based on your experience,	

12 (Pages 42 to 45)

	46		48
1	with oil spills, would you have a reasonable	1	or not that produced water contained chemicals in it
2	expectation that a spill of that nature of crude oil	2	that were dangerous to humans, animals and the
3	into this river, rivers, where the river ran black,	3	environment?
4	would be damaging to the environment?	4	MR. SELEY: Objection. Calls for expert
5	MR. SELEY: Objection. Calls for expert	5	testimony.
6	testimony.	6	A Concluded that this produced water in this
7	A Yes, I would expect that it would be	7	oil field does contain chemicals that are hazardous
8	damaging to the environment.	8	to the environment and to humans.
9	MR. SELEY: Move to strike.	9	MR. SELEY: Move to strike.
10	Q (BY MR. SMYSER) Was that your opinion at	10	Q (BY MR. SMYSER) Let's go to the next
11	the time?	11	slide if we could. This slide is called primary
12	MR. SELEY: Objection. Vague.	12	sources of contamination. And actually, it appears
13	A At the time when I learned about the oil	13	to be a group of slides, perhaps maybe a dozen slides
14	spills?	14	or so. And so I would like to ask you if you
15	Q (BY MR. SMYSER) Yes.	15	would jump ahead, you can jump ahead and sort of look
16	A Yes.	16	at the slides that are coming up.
17	Q Let's go to the oh, before we leave	17	A Okay. Thanks.
18	this slide. Produced water, if I could direct your	18	Q Yes. And ask you what was the purpose of
19 20	attention back to the dumping of the produced water	19 20	this group of slides?
20 21	in the streams.	20	MR. SELEY: Objection. Calls for expert testimony.
22	Does produced water contain chemicals in it?	22	A This group of slides, it's intended to
23	A Yes, it does.	23	summarize, or maybe organize into, I believe it's
24	MR. SELEY: Objection. Calls for expert	24	five different categories, how the operations of
25	testimony.	25	Texaco contaminated the environment.
	47		
	47		49
1		1	
1	Q (BY MR. SMYSER) Are the chemicals in	1	And within this group there's a
2	Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and	2	And within this group there's a description of each of these five what are called on
	Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment?	1	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination.
2 3	Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection.	2 3	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's
2 3 4	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more 	2 3 4	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination.
2 3 4 5	Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection.	2 3 4 5	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources
2 3 4 5 6	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this 	2 3 4 5 6	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination.
2 3 4 5 6 7	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to 	2 3 4 5 6 7	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay.
2 3 4 5 6 7 8	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. 	2 3 4 5 6 7 8	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by 	2 3 4 5 6 7 8 9 10 11	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from
2 3 4 5 6 7 8 9 10 11 12	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the 	2 3 4 5 6 7 8 9 10 11 12	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo
2 3 4 5 6 7 8 9 10 11 12 13	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? 	2 3 4 5 6 7 8 9 10 11 12 13	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I wasn't looking at data in the field or anything in 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series of aerial photos of the entire concession. And I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I wasn't looking at data in the field or anything in the field. I was looking at data in my office. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series of aerial photos of the entire concession. And I think there are three different dates in the '70s and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I wasn't looking at data in the field or anything in the field. I was looking at data in my office. Q You were looking at data from produced 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series of aerial photos of the entire concession. And I think there are three different dates in the '70s and in the '80s and early '90s. And he describes how by
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I wasn't looking at data in the field or anything in the field. I was looking at data in my office. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series of aerial photos of the entire concession. And I think there are three different dates in the '70s and in the '80s and early '90s. And he describes how by looking at those aerial photos you can track the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q (BY MR. SMYSER) Are the chemicals in produced water dangerous to animal, human and environment? MR. SELEY: Same objection. A In this case in general, yes, but more specifically, there are data on what is in this produced water at this oil field. So specific to this produced water at this oil field, yes, as well. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And did you examine this data with respect to the dangers presented by produced water at the time you did your work in the concession? A I don't mean to be too literal, but, yes. Q Okay. A But, yes. I wasn't in the concession at the time so I don't Q Where were you at the time? A In my office looking at the data. So I wasn't looking at data in my office. Q You were looking at data from produced water tested in the concession? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	And within this group there's a description of each of these five what are called on this first slide primary sources of contamination. So these are ways to describe what Texaco's operations did to the environment in terms of sources of contamination. Q Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about this first slide. First off, what well, you say there are 916 unlined, abandoned pits with wastes from wells. Then you give a source from aerial photo analysis. Could you tell us more about where you got that information? MR. SELEY: Objection. Calls for speculation. A The number of 916 comes from the report of Mr. Cabrera. And in that report he talks about an aerial photography analysis where there are a series of aerial photos of the entire concession. And I think there are three different dates in the '70s and in the '80s and early '90s. And he describes how by

13 (Pages 46 to 49)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	50		52
1	MR. SELEY: Move to strike.	1	typical of many pits I've seen.
2	Q (BY MR. SMYSER) Did you personally visit	2	MR. SELEY: Move to strike.
3	any of these unlined, abandoned pits with wastes from	3	Q (BY MR. SMYSER) You would consider this
4	wells?	4	an exemplar of the kind of pit you've personally
5	A Yes, I did.	5	seen?
6	Q What does the picture show in the	6	MR. SELEY: Same objection.
7	right-hand corner?	7	A Yes.
8	MR. SELEY: Objection. Lacks foundation.	8	MR. SELEY: Move to strike.
9	No personal knowledge. Calls for expert testimony.	9	Q (BY MR. SMYSER) Let's go to the next
10	A This is not my photograph.	10	slide, please.
11	Q (BY MR. SMYSER) All right. It's a	11	A Is it okay if we take a quick break?
12	photograph, it looks like from the Reuters	12	Q Absolutely.
13	photographer, Mr. Dematteis?	13	A Okay.
14	A Correct. I don't think the pronunciation	14	Q Any time. You are the master of when we
15	is correct, but that's okay.	15	need to take breaks.
16	Q The pronunciation is incorrect?	16	A Okay.
17	A Is incorrect. It's Dematteis.	17	Q Of course, other people may need to take
18	Q Dematteis, thank you.	18	breaks, too.
19	And what does that photograph show?	19	A Okay.
20	MR. SELEY: Same objections.	20	Q Thank you.
21	A I don't know what site this is, so I can't	21	THE VIDEOGRAPHER: Going off the record at
22	be specific, but this is similar to many pits that	22	10:07.
23	I've seen in the area of Texaco's operations. This	23	(Recess taken from 10:07 a.m. to
24	appears to be a pit that has crude oil floating on	24	10:22 a.m.)
25	the top of it. And that would be crude oil that	25	THE VIDEOGRAPHER: It is 10:22. We're
	51		53
1	51 was came up out of the well during different	1	53 back on the record.
1 2	-	1 2	
	was came up out of the well during different	1	back on the record.
2	was came up out of the well during different phases of the oil the oil well development or	2	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took
2 3	was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this.	2 3	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which
2 3 4	was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike.	2 3 4	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you
2 3 4 5	was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation.	2 3 4 5	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your
2 3 4 5 6 7 8	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this 	2 3 4 5 6 7 8	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation?
2 3 4 5 6 7	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? 	2 3 4 5 6 7	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it
2 3 4 5 6 7 8 9 10	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have 	2 3 4 5 6 7 8 9 10	back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony.
2 3 4 5 6 7 8 9 10 11	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what 	2 3 4 5 6 7 8 9 10 11	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco
2 3 4 5 6 7 8 9 10 11 12	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. 	2 3 4 5 6 7 8 9 10 11 12	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've
2 3 4 5 6 7 8 9 10 11 12 13	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of 	2 3 4 5 6 7 8 9 10 11 12 13	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that
2 3 4 5 6 7 8 9 10 11 12 13 14	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate 	2 3 4 5 6 7 8 9 10 11 12 13 14	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. Sometimes you can more clearly make out the boundaries of the pits, like an earthen berm. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well sites.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. Sometimes you can more clearly make out the boundaries of the pits, like an earthen berm. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well sites. Q And in the course of visiting more than
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. Sometimes you can more clearly make out the boundaries of the pits, like an earthen berm. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well sites. Q And in the course of visiting more than one well site
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. Sometimes you can more clearly make out the boundaries of the pits, like an earthen berm. Sometimes I've seen pits where the edges are square or straighter than this. This seems to have some curves to it. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well sites. Q And in the course of visiting more than one well site A Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 was came up out of the well during different phases of the oil the oil well development or production and then was dumped into a pit like this. MR. SELEY: Objection. Move to strike. Lacks foundation. Q (BY MR. SMYSER) Why did you select this photo for inclusion in your PowerPoint? A Like I say, this is very typical of many pits that I've seen. I think this is the probably the best-looking photo that I've seen. I don't have any that look this good. So to show visually what these pits look like, this is a very good example. Q Based on your own personal experience of looking at these pits, is this a true and accurate representation of this type of pit? MR. SELEY: Objection. Lacks foundation. A Yeah, this is very similar to pits I've seen and each pit is a little bit different. Sometimes you can more clearly make out the boundaries of the pits, like an earthen berm. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 back on the record. Q (BY MR. SMYSER) Mr. Beltman, when we took our break, we were to an unlabeled slide which appears to be an aerial photograph. I wonder if you could tell us why you included this slide in your presentation? MR. SELEY: Objection to the extent it calls for expert testimony. A This is an aerial photograph of one of the Chevron well sites. And it shows a typical layout of the well site and then the waste pits that Texaco built and left. And I think it's, from what I've seen, very typical of the all the well sites that Texaco operated. MR. SELEY: Objection. Move to strike. Q (BY MR. SMYSER) Did you visit yourself some of these well sites? A Yes, I did. I don't know if I visited this one in particular, but, yes, I did visit well sites. Q And in the course of visiting more than one well site

14 (Pages 50 to 53)

	54		56
1	MR. SELEY: Objection. Vague.	1	Lacks foundation.
2	A Yes, certain when I went to the well	2	Q (BY MR. SMYSER) And all I'm asking you is
3	sites I went to, I would look at the well. The	3	to establish, as he would say, a foundation with
4	wellhead, the well pad area, look at the pits. Look	4	respect to your knowledge that this is what it might
5	at how the pits were arranged. In some cases the	5	look like shortly after production is started.
6	pits were still open. Look what's in the pits, look	6	MR. SELEY: Objection. Calls for expert
7	at the drainage from the pits. So, yes, I looked at	7	testimony.
8	that.	8	A I've seen descriptions of how Texaco
9	Q (BY MR. SMYSER) And does this slide	9	operated their well sites. And this photograph is
10	contain a representation that is a true and accurate	10	typical of those descriptions that I've read.
11	representation of what you generally encountered when	11	MR. SELEY: Move to strike.
12	you visited an oil pit, even if this specific site	12	Q (BY MR. SMYSER) Let's look at the next
13	may not have been one you visited?	13	slide, if we could. Now, this slide has a particular
14	MR. SELEY: Objection. Lacks foundation.	14	name to it, pits. And what is the purpose of this
15	A Yes, I would say it's a typical layout	15	slide?
16	from the ones that I've seen.	16	MR. SELEY: Objection. Calls for expert
17	Q (BY MR. SMYSER) Let's go to the next	17	testimony.
18	slide. Can you tell us, this is again an unlabeled	18	A We are in the still in the part of the
19	slide. Can you tell us what is shown in this slide?	19	presentation where I'm describing the principal ways
20	A This	20	that Texaco's operations contaminated the
21	MR. SELEY: Objection. Calls for expert	21	environment. And now, this is the first specific
22	testimony.	22	way. The pits, the oil pits that oil and other
23	A Yes. This slide is another well site.	23	kinds of waste pits that Texaco constructed and then
24	The difference from the previous one, though, is,	24	left.
25	well, it's color, easier to see the black oil on the	25	MR. SELEY: Move to strike.
	55		
	55		57
1	pits. It's also based on the equipment on the well	1	Q (BY MR. SMYSER) What were the pits used
1 2		1 2	
	pits. It's also based on the equipment on the well	1	Q (BY MR. SMYSER) What were the pits used
2	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably	2	Q (BY MR. SMYSER) What were the pits used for?
2 3	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production,	2 3	Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony.
2 3 4	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after	2 3 4	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some
2 3 4 5	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started.	2 3 4 5	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the
2 3 4 5 6	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites	2 3 4 5 6	Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil.
2 3 4 5 6 7 8 9	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the	2 3 4 5 6 7 8 9	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used
2 3 4 5 6 7 8 9 10	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production.	2 3 4 5 6 7 8	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil?
2 3 4 5 6 7 8 9 10 11	pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your	2 3 4 5 6 7 8 9 10 11	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert
2 3 4 5 7 8 9 10 11 12	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these 	2 3 4 5 6 7 8 9 10 11 12	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That
2 3 4 5 6 7 8 9 10 11 12 13	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after 	2 3 4 5 6 7 8 9 10 11 12 13	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well,
2 3 4 5 6 7 8 9 10 11 12 13 14	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? 	2 3 4 5 6 7 8 9 10 11 12 13 14	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with. And at these well sites they dumped that oil into these open pits. And every site that I've been to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. But I think this photograph shows well what it would look like soon after Texaco finished the drilling. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with. And at these well sites they dumped that oil into these open pits. And every site that I've been to and every description of well sites shows at least
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. But I think this photograph shows well what it would look like soon after Texaco finished the drilling. You can see the drill rig is gone but there's still 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with. And at these well sites they dumped that oil into these open pits. And every site that I've been to and every description of well sites shows at least one oil pit, sometimes more at each well site.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. But I think this photograph shows well what it would look like soon after Texaco finished the drilling. You can see the drill rig is gone but there's still equipment on the well pad and the dirt is fresh. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with. And at these well sites they dumped that oil into these open pits. And every site that I've been to and every description of well sites shows at least one oil pit, sometimes more at each well site. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 pits. It's also based on the equipment on the well pad and the freshly uncovered dirt. This is probably just after well drilling or initial well production, where the previous photograph was probably well after that initial drilling and production started. So this shows better what these well sites look like when, soon after Texaco finished the initial drilling and started production. MR. SELEY: Move to strike as speculative and lacks foundation. Q (BY MR. SMYSER) In the course of your work, did you develop an understanding of how these well sites would look after initial production, after initial drilling by Texaco? MR. SELEY: Objection. Calls for expert testimony. A Do you mean soon after? I'm not sure. Q (BY MR. SMYSER) Yes. A Certainly I've seen many of them after. But I think this photograph shows well what it would look like soon after Texaco finished the drilling. You can see the drill rig is gone but there's still 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q (BY MR. SMYSER) What were the pits used for? MR. SELEY: Calls for expert testimony. A The pits here, we have some data from some of these pits. Also, I have seen that one of the things they were used for was oil. Q (BY MR. SMYSER) What do you mean by used for oil? MR. SELEY: Objection. Calls for expert testimony. A That not all of the oil that came up out of the wells went to the processing stations. That in some cases, they're first drilling the well, testing the well, they may be developing the well, there is oil that isn't captured by the pipeline. In some cases the pipeline may not have been in place yet. So that oil they had to do something with. And at these well sites they dumped that oil into these open pits. And every site that I've been to and every description of well sites shows at least one oil pit, sometimes more at each well site.

15 (Pages 54 to 57)

VERITEXT REPORTING COMPANY www.veritext.com

ſ

	58		60
1	A Yes.	1	each well site, they would have taken the drilling
2	MR. SELEY: Objection. Vague.	2	muds and dumped them into the open pits.
3	Q (BY MR. SMYSER) Can you tell us what that	3	Q (BY MR. SMYSER) Do drilling muds contain
4	photograph in the bottom right-hand corner shows?	4	chemicals in them?
5	MR. SELEY: Objection. Calls for expert	5	MR. SELEY: Objection. Calls for expert
6	testimony and lacks foundation. Calls for	6	testimony.
7	speculation.	7	A Yes, they can.
8	A This is a photograph that I took of a pit	8	MR. SELEY: Move to strike.
9	at it's one of the well sites in Shushufindi. I	9	Q (BY MR. SMYSER) What kind of chemicals
10	think it's Shushufindi 61, which is a specific well	10	can be found in drilling muds?
11	site in the Shushufindi field. I'm not sure that	11	MR. SELEY: Same objection.
12	it's 61, but it's a pit behind me when I'm taking	12	A There are different kinds of drilling
13	the photograph is the oil, the well itself and the	13	muds. Barium sulfate is a chemical that is found in
14	pad. And this then is a pit covered in oil. And	14	many drilling muds. Some drilling muds can also have
15	this oil was dumped here at some point during the	15	essentially a like an oil-based formulation where
16	well drilling or initial production or development.	16	to help with the lubrication and to help with the
17	MR. SELEY: Move to strike. Lacks	17	transport of the muds. It's actually an oily mix
18 19	foundation. Speculative.	18 19	itself, so it can have some components of petroleum.
20	Q (BY MR. SMYSER) Did you take this picture yourself?	20	There can be other chemicals added as
20 21	A Yes.	20	well, either to help with the lubrication or help in maintaining the drill.
22	Q Is this a true and accurate representation	22	MR. SELEY: Move to strike.
23	of what you saw that day when you were out there?	23	Q (BY MR. SMYSER) Did Stratus in the course
24	A Yes.	24	of its work in the concession analyzing the material
25	Q You indicated that one of the uses of the	25	from the concession, analyze some of the drilling
	59		
			61
1		1	
1	pit is for unrecovered oil. Did you describe that to	1	muds?
1 2 3	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason	1 2 3	muds? MR. SELEY: Objection. Calls for expert
2	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used?	2	muds? MR. SELEY: Objection. Calls for expert testimony.
2 3	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's	2 3	muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis
2 3 4	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used?	2 3 4	muds? MR. SELEY: Objection. Calls for expert testimony.
2 3 4 5	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used?A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station	2 3 4 5	muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't
2 3 4 5 6	pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason.	2 3 4 5 6	muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the
2 3 4 5 6 7	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used 	2 3 4 5 6 7	muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field.
2 3 4 5 6 7 8 9 10	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling 	2 3 4 5 6 7 8	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard
2 3 4 5 6 7 8 9 10 11	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits?
2 3 4 5 6 7 8 9 10 11 12	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, 	2 3 4 5 6 7 8 9 10 11 12	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10 11 12 13	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped 	2 3 4 5 6 7 8 9 10 11 12 13	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the 	2 3 4 5 6 7 8 9 10 11 12 13 14	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. Q (BY MR. SMYSER) And what is this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to not contaminate the environment.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. Q (BY MR. SMYSER) And what is this something that Texaco did with them? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to not contaminate the environment.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. Q (BY MR. SMYSER) And what is this something that Texaco did with them? MR. SELEY: Objection. Calls for expert 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to not contaminate the environment. And that can mean different things. It can mean that you can't have any pits at all because
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. Q (BY MR. SMYSER) And what is this something that Texaco did with them? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to not contaminate the environment. And that can mean different things. It can mean that you can't have any pits at all because of the type of waste or the type of soil or other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 pit is for unrecovered oil. Did you describe that to us earlier? Is that the oil that is for some reason not used? A Yes, what I mean by unrecovered is it's not sent in the pipeline to the processing station for whatever reason. Q Also, you indicate that the pits are used for disposal of drilling muds. What are drilling muds? MR. SELEY: Objection. Calls for expert testimony. A Drilling muds are, just as it sounds, they're a liquid, muddy concoction that is pumped down the well during drilling to help lubricate the drill and also carry some of the cuttings, the rock as it's being cut, back up to the surface to get it out of the way. And those drilling muds come up out of the well during drilling and something needs to be done with them. Q (BY MR. SMYSER) And what is this something that Texaco did with them? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 muds? MR. SELEY: Objection. Calls for expert testimony. A We didn't do any chemical analysis collection or chemical analysis ourselves. I don't recall seeing any chemical data specific to the drilling muds used in this oil field. Q (BY MR. SMYSER) What was the standard applicable to disposal of drilling muds in the United States at the time that Texaco was operating in the concession and putting the drilling muds in the pits? MR. SELEY: Objection. Calls for expert testimony. A The standards for operations like this in the United States, they're typically regulated at the state level. There is not just one standard. But quite consistently, the standards require that in handling any of the waste that is produced during drilling that that handling be done in a way as to not contaminate the environment. And that can mean different things. It can mean that you can't have any pits at all because

16 (Pages 58 to 61)

	62		64
1	In other cases, a pit could be used but	1	these chemicals in the pits at the well sites.
2	for temporary storage. And there are regulations	2	MR. SELEY: Move to strike as hearsay.
3	about that specifying that if pits are used, they're	3	Q (BY MR. SMYSER) And that was based on
4	used for temporary storage only of the waste. Then	4	documents you saw about Texaco's own use of how these
5	those pits are closed, which would often involve,	5	chemicals were disposed?
6	again, depending on specifics of the state or the	6	A Yes, they were Texaco documents describing
7	place, could involve removing the waste, taking it to	7	how they operated.
8	a treatment facility and then properly closing the	8	MR. SELEY: Move to strike.
9	pits.	9	Q (BY MR. SMYSER) Let's go to the next
10	MR. SELEY: Move to strike.	10	slide. This appears to be a more down to earth how
11	Q (BY MR. SMYSER) Based on your examination	11	the pits were used and constructed. Could you tell
12	of how the drilling muds were disposed by Texaco in	12	us what you mean by the Texaco pits being constructed
13	the concession, did you form an opinion as to whether	13	without liners?
14	or not Texaco disposed of the muds in a manner	14	MR. SELEY: Objection. Calls for expert
15	consistent with what the general standards were that	15	testimony.
16	you've just described to us?	16	A Yes. What that means is these pits that
17	MR. SELEY: Objection. Calls for expert	17	Texaco built at each well site and then used for
18	testimony.	18	disposal of the waste were really just scrapes in the
19	A I don't think I developed opinions	19	ground. They dug out an area and put waste in those
20	specific to the drilling muds.	20	pits without placing any liner or any sort of
21	Q (BY MR. SMYSER) Okay.	21	protection of the groundwater or the soil around it
22	A I think the opinion I have on the pits is	22	down first.
23	it applies to all the waste. I don't know that I've	23	Q (BY MR. SMYSER) What would be the
24	had a that I developed an opinion specific to just	24	purpose
25	drilling muds.	25	MR. SELEY: Move to strike.
	63		65
1	Q (BY MR. SMYSER) Fair enough.	1	Q (BY MR. SMYSER) of a liner in a pit
2	MR. SELEY: Move to strike.	2	like this?
3	Q (BY MR. SMYSER) Let's go to the last item	3	MR. SELEY: Objection. Calls for expert
4	you have on this slide, chemicals used to develop the	4	testimony.
5	wells. What do you mean by that?	5	A The purpose would be to keep the
6	A Sometimes chemicals are pumped down the	6	contamination, the chemicals in the waste, from
7	wells to aid in the production of the wells, is what	7	spreading outside of the pit
8	is important. And they can be things that	8	MR. SELEY: Move to strike.
9	biocides that are listed here on the slide, which	9	A to groundwater, to soil surrounding the
10	would keep any bacteria or any growth from occurring	10	pit, to keep it in the pit where it was placed.
11	in the well. They can be acids that will help open	11	MR. SELEY: My apologies. I jumped the
12	up the rock and which would help the oil flow back	12	gun. Move to strike.
13	into flow in the well quicker, easier. It can	13	Q (BY MR. SMYSER) And I understand that was
14	clear out buildup in the well. So these are	14	your understanding, or let me rephrase that question.
15	chemicals pumped down the well that will help produce	15	Was that your understanding of the use of pit liners
16	the oil and maintain the production.	16	at the time you did your investigation and work in
17	MR. SELEY: Move to strike.	17	the on the Texaco Lago Agrio litigation?
18 19	Q (BY MR. SMYSER) And was it your	18	MR. SELEY: Objection. Calls for expert
19 20	observation that these chemicals were also disposed	19	testimony.
20 21	of in these pits?	20 21	A Is your question specific to this field in
21 22	MR. SELEY: Objection. Calls for expert	22	Ecuador?
22	testimony. Calls for speculation. Expert testimony. A I didn't observe this myself, when Texaco	23	Q (BY MR. SMYSER) Yes. MR SELEX: Same objections
	3		MR. SELEY: Same objections.
24	was operating of course. I have read descriptions	24	A Ves I read documents again Toyaco
24 25	was operating, of course. I have read descriptions of Texaco operations that, yes, they did dispose of	24 25	A Yes, I read documents, again, Texaco documents, that make clear that they, that no liners

17 (Pages 62 to 65)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	66		68
1	were ever used in the pits. And I haven't seen any	1	was built with a pipe in the side of it. And the way
2	liners at pits, the ones I've looked at.	2	these pipes operate is that as the pits fill up,
3	Q (BY MR. SMYSER) And you visited some of	3	rather than spill over the tops of the pits, the pit
4	the pits?	4	contents are dumped through the pipe out into
5	A Yes.	5	whatever is next to the pit.
6	MR. SELEY: Objection. Vague.	6	MR. SELEY: Move to strike.
7	Q (BY MR. SMYSER) Did you did you	7	Q (BY MR. SMYSER) And what is that picture
8	determine whether or not the pits that you visited	8	down in the right-hand corner, the far right-hand
9	were constructed with liners?	9	corner?
10	A I well, not really. I mean to really	10	MR. SELEY: Objection to the extent it
11	investigate it, based on looking at the pit alone,	11	calls for expert testimony.
12	you would have to get into the pit and see what's	12	A I don't know what this where this photo
13	underneath it. So I didn't do that. But I did not	13	is. This is not one of my photographs. The pipe
14	see any evidence of liners along the edges of the	14	that is shown in that is typical of all the overflow
15	pits or, you know, remnants of liners, torn-up	15	pipes that I've seen in the pits. And it looks like
16	liners. I didn't see anything like that at the pits.	16	around this pipe there's an oily mess. But this
17	Q And you indicated earlier that documents	17	these pipes are typically about probably four inches
18	that you saw made clear that Texaco did not use	18	in diameter, steel pipes. And they go through the
19	liners in the pits?	19	sides of the pits and pour out into the stream or
20	MR. SELEY: Objection. Misstates the	20	wetland or whatever is next to that particular pit.
21	testimony.	21	MR. SELEY: Move to strike. Lacks
22	Q What about	22	foundation. Calls for speculation. Calls for expert
23	THE REPORTER: Excuse me. If we can go	23	testimony.
24	off the record.	24	Q (BY MR. SMYSER) Would this pipe, would
25	THE VIDEOGRAPHER: We're off the record at	25	this photo be an accurate representation of the
	67		69
1	10:39.	1	typical pipe that you saw when you observed these
2	(Recess taken from 10:39 a.m. to	2	kind of pits?
3	10:42 a.m.)	3	A Yes.
4	THE VIDEOGRAPHER: Back on the record at	4	MR. SELEY: Same objections.
5	10:42.	5	Q (BY MR. SMYSER) These pits are located in
6	Q (BY MR. SMYSER) I'm not sure my last	6	the rainforest?
7	question was answered. Mr. Beltman, you indicated	7	A Yes, the entire concession is in the
8	earlier the documents that you saw at the time made	8	rainforest.
9	clear that Texaco did not use liners in the pits?	9	Q Let me ask an obvious question here. Does
10	MR. SELEY: Same objection.	10	it rain in the rainforest?
11	A That's correct.	11	A Yes, including from personal experience.
12 13	MR. SMYSER: And for the record,	12 13	It rains a lot in the rainforest.
14	Mr. Seley, the Bates numbers on this document are, as I have said, 2268146 through 2268197. And it has a	14	Q It rains a substantial amount in the rainforest?
15	CVX-RICO prefix.	15	MR. SELEY: Objection. Vague.
16	MR. SELEY: Thank you.	16	A Yes. Yes, it does.
17	MR. SMYSER: Certainly.	17	Q (BY MR. SMYSER) And I suppose the rain
18	Q (BY MR. SMYSER) You next note that the	18	falls in these pits?
19	pits were constructed with built-in overflow pipes?	19	A Yes, these pits are open. There is
20	A Yes.	20	nothing covering them. So the rainwater flows into
21	Q What does that mean?	21	the it falls into the pits. And it's one of the
22	MR. SELEY: Objection. Calls for expert	22	ways that the pits overflow is because they collect
23	testimony.	23	the rainwater. And one of the features of the
24		1	
11 4 4	A Each, every pit that I've seen and the	24	rainforest is that it rains more than it evaporates,

18 (Pages 66 to 69)

	70		72
1	rainwater then is in contact with whatever is in the	1	MR. SELEY: Same objection.
2	pit and then makes its way through the pipes.	2	Q (BY MR. SMYSER) First, I guess I need to
3	MR. SELEY: Move to strike. Improper	3	ask you what you meant by used for permanent
4	expert testimony.	4	disposal?
5	Q (BY MR. SMYSER) And does the rainwater	5	MR. SELEY: Same objection. Calls for
6	that is in contact with the chemicals in the pit and	6	expert testimony.
7	then flows out through the pipe carry chemicals from	7	A What I meant by that is these pits had the
8	the pit out into the environment?	8	wastes dumped into them but were never that the
9	MR. SELEY: Objection. Calls for expert	9	waste that was put into these pits was never moved.
10	testimony. Calls for speculation.	10	It was never pumped out, it was never taken to a
11	A I haven't seen any data on the chemistry	11	treatment facility. Once it was put in the pits, it
12	of water coming out of the pit, the side of a pit. I	12	was left there. So it was intended to be a permanent
13	haven't seen anyone collect a sample. But I have	13	way to dispose of the waste.
14	seen where downstream from the pit, either right	14	MR. SELEY: Move to strike.
15	where the pit right where the pipe spills out,	15	Q (BY MR. SMYSER) Now, let's look at the
16	where you could follow it down the stream, I've seen	16	next slide. Now, this slide is unlabeled, but could
17	oil in the sediment. I've smelled the oil in the	17	you tell us what the schematic here is intended to
18	water and in the sediment. So there is certainly oil	18	demonstrate?
19	getting out through the pipes that I've seen, but I	19	MR. SELEY: Objection. Calls for expert
20	can't say that I've seen data specifically on it.	20	testimony. Speculative. Lacks foundation.
21	Q (BY MR. SMYSER) I seem to remember that	21	A Yes. This schematic is intended to show
22	there was a 60 Minutes video in which you gave some	22	the ways in which the contamination can spread from
23	dialogue with one of the 60 Minutes individuals and	23	these Texaco pits out into various components of the
24	were at one of these what appear to be spillover	24	environment.
25	pipes.	25	MR. SELEY: Move to strike.
	71		73
1	Do you remember that?	1	Q (BY MR. SMYSER) Okay. Let's look at this
2	A Yes.	2	slide in a little more detail. I think you can point
3	Q And you smelled that. Did that smell of	3	on the screen and it will show up, if I'm not
4	oil? And I'll get into that in a little more detail	4	mistaken.
5	later. I'll show you that video, but	5	THE DEPONENT: There we go. Does it move?
6	A Yes. I think he said that smells the	6	MR. SMYSER: Does it move?
7	correspondent is smelling the oil in the video, not	7	THE DEPONENT: Oh, I wasn't supposed to do
8	me. But, yes, that's an example of a pipe out the	8	that.
9	side of a pit where you can track the oil as you go	9	MR. SPALDING: To draw you need to click
10	down the hillside into a little stream and wetland	10	the circle right here.
11	and you can smell the oil.	11	THE DEPONENT: Can I just move the pointer
12 13	Q And does that contaminate the environment?	12	as well?
14	MR. SELEY: Objection. Calls for expert	13 14	MR. SPALDING: No. You can draw.
15	A Absolutely.	15	THE DEPONENT: No. MR. SMYSER: It's never that easy.
16	A Absolutely. Q (BY MR. SMYSER) In your personal	16	A Okay.
17	experience observing these pits, did the overflow	17	Q (BY MR. SMYSER) Okay. Can you show us on
18	from these pits through these pipes contaminate the	18	the screen where the oil oil pit is?
19	environment?	19	A Yes.
20	MR. SELEY: Objection. Calls for expert	20	MR. SELEY: Objection. Lacks foundation.
21	testimony.	21	A In this schematic, this maybe not.
22	A Absolutely.	22	MR. SPALDING: It might be better to use
23	Q (BY MR. SMYSER) You next indicate that	23	the circle tool.
24		04	
ll -	these pits were used for permanent disposal. Why is	24	THE REPORTER: I'm sorry, I can't hear

19 (Pages 70 to 73)

VERITEXT REPORTING COMPANY

	74		76
1	MR. SMYSER: It might be better to use the	1	its way into the river, has it contaminated the
2	circle tool.	2	river?
3	THE DEPONENT: Sorry, I'm not getting it.	3	MR. SELEY: Objection. Calls for expert
4	THE VIDEOGRAPHER: Push down firm and	4	testimony. Speculation.
5	drag. There you go.	5	A If the water is contaminated, yes.
6	THE DEPONENT: Got it.	6	Q (BY MR. SMYSER) And based on your
7	A So this area, this here represents the pit	7	experience visiting pits like this with discharge
8	at this site.	8	into rivers, did you observe whether or not the local
9	Q (BY MR. SMYSER) Okay. What is what	9	populace bathed in the rivers?
10	are the contents of the pit?	10	MR. SELEY: Objection. Lacks foundation.
11	MR. SELEY: Objection. Calls for expert	11	Calls for speculation.
12	testimony and calls for speculation.	12	A Yes, I've seen people bathing in the
13	Go ahead.	13	rivers there. I've seen them doing laundry in the
14	A In this schematic, we can see three	14	rivers. I've seen them just sort of hanging out by
15	different kinds of waste. There's the drilling mud	15	the rivers, especially on hot days, swimming.
16	labeled at the bottom, the water, contaminated water	16	Q (BY MR. SMYSER) And are those in rivers
17	in the pit. That could either be water from the pit	17	near one of these depicted oil pits with goose neck
18	or, again, rainwater that is accumulated over time,	18	pipe discharges of water, contaminated water into the
19	I'm sorry, water from the well, and then a top layer	19	river?
20	of oil.	20	MR. SELEY: Objection. Vague. Lacks
21 22	Q (BY MR. SMYSER) And are the contents of	21 22	foundation. Calls for speculation. A The places where I've seen people in the
22	pits of this type within your own personal experience	23	
23 24	down there in Ecuador, and reading documents and based on your work on this project?	24	river have always been at road crossings, so the road will go over the river. And that's where I'm driving
25	MR. SELEY: Objection. Vague. Lacks	25	by and I see the people there. I haven't taken the
	75		77
1	foundation.	1	time to try to track, say, when we see people in the
2	A Yes, from my the descriptions of	2	river, try to track where the closest pit is
3	Texaco's operations, this is typical of the waste	3	upstream, the closest gooseneck pipe that's
4	they put in the pits. And I've seen the oil and the	4	discharging into that river. So I don't think I can
5	water in pits. I don't think I've seen drilling mud	5	say myself I've put the two together and how close
6	in pits, personally.	6	they are, but I've certainly seen people in the river
7	MR. SELEY: Move to strike to the extent	7	and I've seen pit pipes dumping into the river. But
8 9	it calls for improper expert testimony. Q (BY MR. SMYSER) And you have a gooseneck	9	I've never taken the time to figure out how close the
10	Q (BY MR. SMYSER) And you have a gooseneck pipe there. Is that the pipe we've been talking	10	two are to each other. Q (BY MR. SMYSER) Okay. Based on your
11	about?	11	experience in the area, would it be your expectation
12		12	that inhabitants would bathe in rivers that contain
	A Yes		that inhabitants would bathe in more that contain
 13	A Yes. MR. SELEY: Objection.	13	contaminated water discharge from pits like this?
13 14	MR. SELEY: Objection.	13 14	contaminated water discharge from pits like this? MR. SELEY: Objection. Calls for
	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show		MR. SELEY: Objection. Calls for
14	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit?	14	6 1
14 15	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show	14 15	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any
14 15 16	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation.	14 15 16	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation.
14 15 16 17	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony.	14 15 16 17	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the
14 15 16 17 18	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony. A What this is depicting is that the pipe	14 15 16 17 18	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the water, contaminated water, that discharges from the
14 15 16 17 18 19	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony. A What this is depicting is that the pipe has one end in the pit, then in this particular	14 15 16 17 18 19	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the water, contaminated water, that discharges from the pits makes its way through small streams to bigger
14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony. A What this is depicting is that the pipe has one end in the pit, then in this particular example, it runs through what's the side of the pit	14 15 16 17 18 19 20	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the water, contaminated water, that discharges from the pits makes its way through small streams to bigger streams to the rivers. And there are well sites and
14 15 16 17 18 19 20 21 22 23	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony. A What this is depicting is that the pipe has one end in the pit, then in this particular example, it runs through what's the side of the pit or the berm that goes around the pit.	14 15 16 17 18 19 20 21 22 23	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the water, contaminated water, that discharges from the pits makes its way through small streams to bigger streams to the rivers. And there are well sites and pits throughout this area. There are roads and towns
14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Q (BY MR. SMYSER) And what does it show about how the water is discharged from the pit? MR. SELEY: Objection. Speculation. Calls for expert testimony. A What this is depicting is that the pipe has one end in the pit, then in this particular example, it runs through what's the side of the pit or the berm that goes around the pit. And then the other end empties out into a	14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Calls for speculation, calls for expert testimony. Lacks any foundation. A Yes. Yes. And I can say that because the water, contaminated water, that discharges from the pits makes its way through small streams to bigger streams to the rivers. And there are well sites and pits throughout this area. There are roads and towns and people downstream of all these areas where there

20 (Pages 74 to 77)

1people are bathing.1become contaminated; is that correct?2MR. SELEY: Move to strike.2MR. SELEY: Objection. Calls for expert3Q(BY MR. SMYSER) Let me ask you now to3testimony.4tell us on this schematic what is the purpose of the3testimony.5area labeled contaminated plume?4AThat's right. Trying to show I was6AThat depicts a plume of contaminants6look at a pit, we see the oil at the top and we7that's leaching out of the pit, over the pit contents8contamination that there is. That there's more9MR. SELEY: Move to strike as improper9on at a pit than just what we can see with out10Q(BY MR. SMYSER) How did you determine1011Q(BY MR. SMYSER) How did you determine1112that there were contaminated plumes underneath these1213pits? What information enabled you to make this1314testimony. Calls for speculation. Lacks foundation.1615MR. SELEY: Objection. Calls for expert1516testimony. Calls for speculation. Lacks foundation.1617ATo be clear, this isn't my figure, but I18also have made the conclusion about contaminated1820There are data that were collected at and2021There are data that were collected at and2122MR. SELEY: Objection. Move to strike.2323MR. SELEY: Objection. Move to s	
2MR. SELEY: Move to strike.3Q(BY MR. SMYSER) Let me ask you now to4tell us on this schematic what is the purpose of the3testimony.5area labeled contaminated plume?4AThat's right. Trying to show I was6AThat depicts a plume of contaminants6Iook at a pit, we see the oil at the top and we7that's leaching out of the pit, over the pit contents6Iook at a pit, we see the oil at the top and we8and getting into groundwater.9MR. SELEY: Move to strike as improper99MR. SELEY: Move to strike as improper9on at a pit than just what we can see with ou10Q(BY MR. SMYSER) How did you determine10Q11Q(BY MR. SMYSER) How did you determine11becomes contaminated from the pit, how can12that there were contaminated plumes underneath these13MR. SELEY: Objection. Calls for expert13pits? What information enabled you to make this13MR. SELEY: Objection. Calls for expert14determination?14testimony. Calls for speculation. Lacks foundation.15MR. SELEY: Objection. Calls for expert15A16testimony. Calls for speculation. Lacks foundation.1718also have made the conclusion about contaminated1719groundwater.1920There are data that were collected at and2021There are data that were collected at and2022There are data that we	
3Q(BY MR. SMYSER) Let me ask you now to tell us on this schematic what is the purpose of the area labeled contaminated plume?3testimony.6AThat depicts a plume of contaminants of that's leaching out of the pit, over the pit contents and getting into groundwater.4AThat's right. Trying to show I was trying to show in this slide that what we see the look at a pit, we see the oil at the top and we see the goose neck pipe. That's not all the see the goose neck pipe. That's not all the on at a pit than just what we can see with ou on at a pit than just what we can see with ou look at a pit, we see the oil at the top and we see the goose neck pipe. That's not all the see the goose neck pipe. That's not all the on at a pit than just what we can see with ou look at a pit than just what we can see with ou look at a pit than just what we can see with ou look at a pit than just what we can see with ou look at a pit than just what we can see with ou look at a pit than just what we can see with ou look at a pit than just what we can see with ou loo Q10Q(BY MR. SMYSER) How did you determine that there were contaminated plumes underneath these look at and the groundwater?13pits? What information enabled you to make this determination?1314determination?1415MR. SELEY: Objection. Calls for expert the testimony. Calls for speculation. Lacks foundation.1616testimony. Calls for speculation. Lacks foundation.1717ATo be clear, this isn't my figure, but I groundwater.1818also have made the conclusion about contaminated mear pits that show there is contamination in <th>rt</th>	rt
 area labeled contaminated plume? A That depicts a plume of contaminants that's leaching out of the pit, over the pit contents and getting into groundwater. MR. SELEY: Move to strike as improper expert testimony. Q (BY MR. SMYSER) How did you determine that there were contaminated plumes underneath these pits? What information enabled you to make this groundwater. MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. A To be clear, this isn't my figure, but I also have made the conclusion about contaminated groundwater. There are data that were collected at and groundwater. groundwater. groundwater. groundwater. There are data that were collected at and that then can contribute to the contamination in groundwater. groundwater.<!--</th--><th></th>	
 5 area labeled contaminated plume? 6 A That depicts a plume of contaminants 7 that's leaching out of the pit, over the pit contents 8 and getting into groundwater. 9 MR. SELEY: Move to strike as improper 10 expert testimony. 11 Q (BY MR. SMYSER) How did you determine 12 that there were contaminated plumes underneath these 13 pits? What information enabled you to make this 14 determination? 15 MR. SELEY: Objection. Calls for expert 16 testimony. Calls for speculation. Lacks foundation. 17 A To be clear, this isn't my figure, but I 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 3 groundwater. 4 then can contribute to the contamination in 22 groundwater. 5 area labeled contaminated plumes 10 Q (BY MR. SMYSER) And if the ground 10 Q (BY MR. SMYSER) And if the ground 11 becomes contaminated from the pit, how can 12 contamination reach a human habitation? 13 MR. SELEY: Objection. Calls for expert 14 testimony. Calls for speculation. Lacks foundation. 17 A To be clear, this isn't my figure, but I 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 32 groundwater. 33 groundwater. 44 then can contribute to the contamination in 45 that then can be exposed to downstream. 	
 7 that's leaching out of the pit, over the pit contents 8 and getting into groundwater. 9 MR. SELEY: Move to strike as improper 10 expert testimony. 11 Q (BY MR. SMYSER) How did you determine 12 that there were contaminated plumes underneath these 13 pits? What information enabled you to make this 14 determination? 15 MR. SELEY: Objection. Calls for expert 16 testimony. Calls for speculation. Lacks foundation. 17 A To be clear, this isn't my figure, but I 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 7 that's leaching out of the pit, over the pit contents 8 contamination that there is. That there's more on at a pit than just what we can see with out on the time on at a pit than just what we can see with out on at a pit than just what we can see with out on at a pit than just what we can see with out on the pit, how can athe pit than the at the pit	vhen we
 and getting into groundwater. mR. SELEY: Move to strike as improper expert testimony. Q (BY MR. SMYSER) How did you determine that there were contaminated plumes underneath these pits? What information enabled you to make this determination? mR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. A To be clear, this isn't my figure, but I also have made the conclusion about contaminated groundwater. There are data that were collected at and mear pits that show there is contamination in groundwater. 	
9MR. SELEY: Move to strike as improper9on at a pit than just what we can see with ou10expert testimony.10Q(BY MR. SMYSER) And if the ground11Q(BY MR. SMYSER) How did you determine11becomes contaminated from the pit, how can12that there were contaminated plumes underneath these11becomes contaminated from the pit, how can13pits? What information enabled you to make this13MR. SELEY: Objection. Calls for expert14determination?14testimony. Calls for speculation. Lacks foundation.17ATo be clear, this isn't my figure, but I1618also have made the conclusion about contaminated17a river. Groundwater in streams and rivers ty18also have made the conclusion about contaminated18mix. And if the contaminated groundwater, w19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.21people can be exposed to downstream.	
10expert testimony.10Q(BY MR. SMYSER) And if the ground11Q(BY MR. SMYSER) How did you determine11becomes contaminated from the pit, how can12that there were contaminated plumes underneath these12contamination reach a human habitation?13pits? What information enabled you to make this13MR. SELEY: Objection. Calls for expert14determination?14testimony. Calls for speculation. Lacks foundation.17ATo be clear, this isn't my figure, but I16contaminated groundwater discharges into a18also have made the conclusion about contaminated18mix. And if the contaminated groundwater, v19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	e going
11Q(BY MR. SMYSER) How did you determine12that there were contaminated plumes underneath these1113pits? What information enabled you to make this1214determination?1315MR. SELEY: Objection. Calls for expert1416testimony. Calls for speculation. Lacks foundation.1617ATo be clear, this isn't my figure, but I1718also have made the conclusion about contaminated1820There are data that were collected at and1921near pits that show there is contamination in2122groundwater.2023groundwater.2024the stream sediment into the river or the stree25groundwater.2026There are data that were collected at and2127groundwater.2128groundwater.2129groundwater.2120There are data that were collected at and2121near pits that show there is contamination in2222groundwater.2123groundwater.2124the stream sediment into the contamination25groundwater.2126that then can contribute to the contamination27groundwater.28groundwater.29groundwater.20the stream sediment into the river or the stream21that then can contribute to the contamination <t< th=""><th>r eyes.</th></t<>	r eyes.
12that there were contaminated plumes underneath these12contamination reach a human habitation?13pits? What information enabled you to make this13MR. SELEY: Objection. Calls for expert14determination?14testimony. Calls for speculation. Lacks foundation.15MR. SELEY: Objection. Calls for expert15A There are two ways. One way is if the16testimony. Calls for speculation. Lacks foundation.16contaminated groundwater discharges into a17A To be clear, this isn't my figure, but I16contaminated groundwater in streams and rivers ty18also have made the conclusion about contaminated18mix. And if the contaminated groundwater, w19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in22groundwater.22groundwater.21people can be exposed to downstream.	water
13pits? What information enabled you to make this13MR. SELEY: Objection. Calls for expert14determination?14testimony. Calls for speculation. Lacks found15MR. SELEY: Objection. Calls for expert15A16testimony. Calls for speculation. Lacks foundation.16contaminated groundwater discharges into a17ATo be clear, this isn't my figure, but I16contaminated groundwater in streams and rivers ty18also have made the conclusion about contaminated18mix. And if the contaminated groundwater, v19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	that
14determination?14testimony. Calls for speculation. Lacks found15MR. SELEY: Objection. Calls for expert15AThere are two ways. One way is if the16testimony. Calls for speculation. Lacks foundation.16contaminated groundwater discharges into a17ATo be clear, this isn't my figure, but I16contaminated groundwater in streams and rivers ty18also have made the conclusion about contaminated17a river. Groundwater in streams and rivers ty19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	
15MR. SELEY: Objection. Calls for expert15AThere are two ways. One way is if the16testimony. Calls for speculation. Lacks foundation.16contaminated groundwater discharges into a17ATo be clear, this isn't my figure, but I16contaminated groundwater in streams and rivers ty18also have made the conclusion about contaminated17a river. Groundwater in streams and rivers ty18also have made the conclusion about contaminated18mix. And if the contaminated groundwater, w19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	rt
 16 testimony. Calls for speculation. Lacks foundation. 17 A To be clear, this isn't my figure, but I 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 16 contaminated groundwater discharges into a 17 a river. Groundwater in streams and rivers ty 18 mix. And if the contaminated groundwater, w 19 reaches a stream or river, then discharges the 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 23 groundwater. 24 groundwater. 25 and a stream or river is contamination in 26 groundwater. 27 a river. Groundwater in streams and rivers ty 28 mix. And if the contaminated groundwater, w 29 reaches a stream or river, then discharges the 20 the stream sediment into the river or the stree 21 that then can contribute to the contamination 22 people can be exposed to downstream. 	ation.
 17 A To be clear, this isn't my figure, but I 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 17 a river. Groundwater in streams and rivers ty 18 mix. And if the contaminated groundwater, v 19 reaches a stream or river, then discharges the 20 the stream sediment into the river or the stream 21 that then can contribute to the contamination 22 people can be exposed to downstream. 	at
 18 also have made the conclusion about contaminated 19 groundwater. 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 18 mix. And if the contaminated groundwater, v 19 reaches a stream or river, then discharges the 20 the stream sediment into the river or the stree 21 that then can contribute to the contamination 22 people can be exposed to downstream. 	stream or
19groundwater.19reaches a stream or river, then discharges the20There are data that were collected at and20the stream sediment into the river or the stree21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	pically
 20 There are data that were collected at and 21 near pits that show there is contamination in 22 groundwater. 20 the stream sediment into the river or the stree 21 that then can contribute to the contamination 22 people can be exposed to downstream. 	hen it
21near pits that show there is contamination in21that then can contribute to the contamination22groundwater.22people can be exposed to downstream.	ough
22groundwater.22people can be exposed to downstream.	am,
g	that
23MR. SELEY: Objection. Move to strike.23The other primary way is through a way	
24 Q (BY MR. SMYSER) Was it your opinion at 24 Many people who live there have wells and the	-
25 the time that the groundwater was contaminated 25 that as their drinking water source. And the	vells
79	81
1 because of plumes such as depicted on this schematic 1 obviously are taking the groundwater and usi	ng that
2 carrying chemicals from the reserve pit into the 2 as drinking water. And if that groundwater is	
3 groundwater? 3 contaminated, then that's another way that p	eople are
4 MR. SELEY: Objection. Calls for 4 exposed to it.	
5speculation. Lacks foundation. Calls for expert5MR. SELEY: Move to strike.	
6 testimony. 6 Q (BY MR. SMYSER) And does the sch	ematic
7 A I have to qualify my answer. That the 7 portray a water well contamination?	
8 data that I've seen don't necessarily track the 8 MR. SELEY: Objection. Lacks founda	tion.
9 presence of the contamination back to a specific 9 A The slide shows that this in this	
10 source. At any well site there could be other 10 particular case, I would say this contaminated 11 sources of contamination that ends up in the 11 is just reaching this particular water well depi	
 groundwater. It could be pits. It could be spills, recent or old spills. It could be other things discharged into the river, and it's now extend 	
13 releted to the operation. 14 related to the operation.	ng
15 So I haven't seen data that I can point to 15 Q (BY MR. SMYSER) And based on you	r
16 background, experience, training and work at	
17 from that pit and no other place. But certainly, the 17 like this, did you form an opinion as to wheth	
18 contamination in the pits, the data I've seen, it 18 kind of contamination could occur, water well	
19 would at least contribute to the groundwater 19 contamination could occur?	
20 contamination. 20 MR. SELEY: Objection. Calls for expe	rt
21 Q And I guess that's what I would like to 21 testimony.	
22 focus on for half a second. Because I assume that 22 A Yes, and the	
23 the reason you use this slide is because you have 23 Q (BY MR. SMYSER) So you did form a	n
24 some or formed some opinion at the time that this 24 opinion, what was your opinion?	
25was at least one method by which groundwater would25MR. SELEY: Same objection.	

21 (Pages 78 to 81)

	82		84
1	A Yes, it could occur. And the reason why I	1	United States, regulations and industry guidance
2	formed that opinion is, again, the evidence that the	2	going back many decades indicate that pits were used
3	groundwater is contaminated.	3	for temporary storage. Why is that?
4	Q (BY MR. SMYSER) If you would, let's go to	4	MR. SELEY: Objection. Calls for expert
5	the next slide. And this is called pit usage in the	5	testimony.
6	U.S. And I need to ask you, in the course of your	6	A This is an interesting history. If you go
7	work on pits, did you you may have already	7	back into the regulatory history in the U.S., in the
8	answered this. I don't want to be too repetitious,	8	early 1900s, pits were used in particular to dump
9	but did you have occasion to investigate how pits	9	produced water. And the hope was, if you put the
10	were used by the oil industry in the United States	10	waste in a pit, then that contamination is taken care
11	during the period of time that Texaco operated in the	11	of. But it was soon found that, in fact, dumping the
12	concession?	12	waste in the pits eventually led to environmental
13	A Yes.	13	contamination. A lot of places, especially in the
14	Q And what did you determine, as reflected	14	U.S., that can contaminate the groundwater. So
15	in this slide, about how pit usage was in the United	15	regulations developed and industry practice developed
16	States during the time that Texaco operated in the	16	to use the pits when they're used for temporary
17	concession?	17	storage.
18	MR. SELEY: Objection. Calls for expert	18	Q And when was this time period?
19	testimony.	19	MR. SELEY: Objection. Calls for expert
20	A Pits for storage of well waste at the time	20	testimony.
21	that Texaco was operating in Ecuador and even	21	A I've read some documents, some regulations
22	currently are common. That pits themselves are used	22	at the state level where the movement, both within
23	and have been used in the U.S. But there are, as I	23	the industry and then the environmental standards of
24 25	spoke to earlier, key differences that in the U.S	24	toward, if pits are used, they need to be designed to
25	Q (BY MR. SMYSER) What are those key	25	not contaminate the environment, and generally
	83		85
1	differences?	1	temporary storage. I've read documents where that
2	MR. SELEY: Objection. Calls for expert	2	movement was in roughly the 1940s in the U.S.
3	testimony.	3	Q (BY MR. SMYSER) And you also indicate
4	A Key differences between the regulations	4	that tanks were used instead of pits where possible.
5	and practices in the U.S. versus how Texaco operated	5	What do you mean by tanks?
6	in Ecuador are that, if pits are used, they must be	6	MR. SELEY: Objection. Calls for expert
7	designed to prevent contamination of the environment.	7	testimony.
8		8	
9	Q (BY MR. SMYSER) And how do you do that?		A What I mean by tanks here are big,
	MR. SELEY: Objection. Calls for expert	9	temporary mobile tanks that can be placed at a well
10	MR. SELEY: Objection. Calls for expert testimony.	10	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well,
10 11	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of	10 11	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into
10 11 12	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It	10 11 12	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of
10 11 12 13	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit	10 11 12 13	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the
10 11 12 13 14	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it	10 11 12 13 14	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done.
10 11 12 13 14 15	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater.	10 11 12 13 14 15	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador
10 11 12 13 14 15 16	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there	10 11 12 13 14 15 16	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing
10 11 12 13 14 15	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that	10 11 12 13 14 15	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling.
10 11 12 13 14 15 16 17	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that as it fills up with waste or contaminated water it	10 11 12 13 14 15 16 17	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing
10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that	10 11 12 13 14 15 16 17 18	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling. Q In the course of your work looking at
10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that as it fills up with waste or contaminated water it dumps in the environment surrounding the pit.	10 11 12 13 14 15 16 17 18 19	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling. Q In the course of your work looking at Texaco's practices, did you ever determine whether or
10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that as it fills up with waste or contaminated water it dumps in the environment surrounding the pit. MR. SELEY: Move to strike.	10 11 12 13 14 15 16 17 18 19 20	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling. Q In the course of your work looking at Texaco's practices, did you ever determine whether or not Texaco used tanks instead of pits for disposal of
10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that as it fills up with waste or contaminated water it dumps in the environment surrounding the pit. MR. SELEY: Move to strike. A It can also have an impact on what gets	10 11 12 13 14 15 16 17 18 19 20 21	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling. Q In the course of your work looking at Texaco's practices, did you ever determine whether or not Texaco used tanks instead of pits for disposal of waste?
10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Calls for expert testimony. A It depends on the specifics of the pit, of the place where the pit is used and constructed. It can mean that a liner is needed underneath the pit and that is to keep the waste in the pit, keep it from getting into groundwater. It would almost certainly mean that there is not a pipe placed in the side of the pit, so that as it fills up with waste or contaminated water it dumps in the environment surrounding the pit. MR. SELEY: Move to strike. A It can also have an impact on what gets put into a pit and what does not get put into a pit,	10 11 12 13 14 15 16 17 18 19 20 21 22	temporary mobile tanks that can be placed at a well site so that as the waste is produced at the well, instead of putting it into a pit, they're put into these very large tanks and then can be pumped out of the tanks, dealt with off-site, maybe treated at the site and disposed if that needs to be done. I've seen tanks like that at Petroequador sites where they are currently more recently doing drilling. Q In the course of your work looking at Texaco's practices, did you ever determine whether or not Texaco used tanks instead of pits for disposal of waste? MR. SELEY: Objection. Calls for expert

22 (Pages 82 to 85)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	86		88
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16	 pits and only pits for disposal of wastes at well sites. Q (BY MR. SMYSER) And that would not be in compliance with what were the industry standards at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. A Well, again, to qualify, the use of a pit itself is not inconsistent with industry standard at the time. The use of pits that were in essence designed to contaminate, and the use of pits as permanent waste disposal sites, that would be inconsistent with industry standard at the time. Q (BY MR. SMYSER) And Texaco used pits designed to contaminate, in your words, and pits that were used as permanent waste disposal sites during 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 That is, their guidance it can be guidance on oil well operations, guidance on handling waste, guidance on health and safety, lots of different topics. Q Did you have occasion during your work on the Texaco Lago Agrio litigation to determine what the American Petroleum Institute guidance was with respect to the use of pits? A Yes. This slide we're looking at here is from a 1962 document. Q What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is to show that as early as 1962, the oil industry's guidance for how to operate an oil well has ways to control the waste produced at an oil well, that were not used by
17	the time it operated in the concession?	17	Texaco. And it helps show that the industry itself recognized that the way that, say, Texaco operated is
18	MR. SELEY: Objection. Calls for expert	18	
19	testimony. Calls for speculation. Lacks foundation.	19	substandard compared to the guidance they were
20	A Yes. Everything I've read says that's how	20	writing for themselves.
21	Texaco operated.	21	MR. SELEY: Move to strike.
22	Q (BY MR. SMYSER) And that would not be in	22	Q (BY MR. SMYSER) And what in particular
23	compliance with what you understood to be industry	23	does this slide show, if it does, regarding disposal
24	standards then in effect in the United States?	24	of or control of the waste produced at an oil well?
25	MR. SELEY: Objection. Calls for expert	25	MR. SELEY: Objection. Calls for expert
	87		89
1	testimony	1	testimony
1	testimony.	1 2	testimony.
2	A That's correct.		THE DEPONENT: Could you blow up the
	5	1	testimony. THE DEPONENT: Could you blow up the legend, please? The legend at the lower right, could
2 3 4	A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962	2	THE DEPONENT: Could you blow up the
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
9	behalf of the oil industry in the U.S.	9	two things. One, the use of tanks. You can see
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
9	behalf of the oil industry in the U.S.	9	two things. One, the use of tanks. You can see
10	Q Among the things it does is to promulgate	10	multiple tanks that are used for different aspects of
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
9	behalf of the oil industry in the U.S.	9	two things. One, the use of tanks. You can see
10	Q Among the things it does is to promulgate	10	multiple tanks that are used for different aspects of
11	standards that generally reflect the understanding of	11	handling what comes up out of the well. And, again,
12	the industry about various practices?	12	Texaco did not use tanks. And the use of tanks helps
13	MR. SELEY: Objection. Calls for	13	protect environmental contamination. It keeps what
14	speculation. Misstates facts.	14	comes up out of the well contained rather than
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
9	behalf of the oil industry in the U.S.	9	two things. One, the use of tanks. You can see
10	Q Among the things it does is to promulgate	10	multiple tanks that are used for different aspects of
11	standards that generally reflect the understanding of	11	handling what comes up out of the well. And, again,
12	the industry about various practices?	12	Texaco did not use tanks. And the use of tanks helps
13	MR. SELEY: Objection. Calls for	13	protect environmental contamination. It keeps what
14	speculation. Misstates facts.	14	comes up out of the well contained rather than
15	A No, I would not say they promulgate	15	putting it out into open pits.
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
2	A That's correct.	2	THE DEPONENT: Could you blow up the
3	Q (BY MR. SMYSER) Okay. Let's go to the	3	legend, please? The legend at the lower right, could
4	next slide, if we could. This slide is headed 1962	4	you blow that up, please, a little bit?
5	guide from American Petroleum Institute. What is the	5	Q (BY MR. SMYSER) Does that help or is that
6	American Petroleum Institute?	6	still too blurry?
7	A It is an organization that is funded by	7	A I can read it, thanks. Okay. Thanks.
8	the oil industry. And it does various things on	8	Can we go back to the this shows I think primarily
9	behalf of the oil industry in the U.S.	9	two things. One, the use of tanks. You can see
10	Q Among the things it does is to promulgate	10	multiple tanks that are used for different aspects of
11	standards that generally reflect the understanding of	11	handling what comes up out of the well. And, again,
12	the industry about various practices?	12	Texaco did not use tanks. And the use of tanks helps
13	MR. SELEY: Objection. Calls for	13	protect environmental contamination. It keeps what
14	speculation. Misstates facts.	14	comes up out of the well contained rather than
15	A No, I would not say they promulgate	15	putting it out into open pits.
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can promulgate standards. 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
17		17	to show with this figure is can you go up to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Q (BY MR. SMYSER) Fair enough. How about I'm sorry. What is your understanding that they do with respect to guidelines or standards regarding 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE DEPONENT: Could you blow up the legend, please? The legend at the lower right, could you blow that up, please, a little bit? Q (BY MR. SMYSER) Does that help or is that still too blurry? A I can read it, thanks. Okay. Thanks. Can we go back to the this shows I think primarily two things. One, the use of tanks. You can see multiple tanks that are used for different aspects of handling what comes up out of the well. And, again, Texaco did not use tanks. And the use of tanks helps protect environmental contamination. It keeps what comes up out of the well contained rather than putting it out into open pits. The second key feature that I was trying to show with this figure is can you go up to the upper right, please? Yeah, that's good, that's good.
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can promulgate standards. Q (BY MR. SMYSER) Fair enough. How about I'm sorry. What is your understanding that they do with respect to guidelines or standards regarding industry practice? 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
17		17	to show with this figure is can you go up to the
18		18	upper right, please? Yeah, that's good, that's good.
19		19	That's fine, thanks.
20		20	What this figure shows is that the
21		21	production water that came up out of the well with
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can promulgate standards. Q (BY MR. SMYSER) Fair enough. How about I'm sorry. What is your understanding that they do with respect to guidelines or standards regarding industry practice? A I don't know what all the American 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
17		17	to show with this figure is can you go up to the
18		18	upper right, please? Yeah, that's good, that's good.
19		19	That's fine, thanks.
20		20	What this figure shows is that the
21		21	production water that came up out of the well with
22		22	the oil was reinjected underground.
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can promulgate standards. Q (BY MR. SMYSER) Fair enough. How about I'm sorry. What is your understanding that they do with respect to guidelines or standards regarding industry practice? A I don't know what all the American Petroleum Institute does, but what I have seen is 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
17		17	to show with this figure is can you go up to the
18		18	upper right, please? Yeah, that's good, that's good.
19		19	That's fine, thanks.
20		20	What this figure shows is that the
21		21	production water that came up out of the well with
22		22	the oil was reinjected underground.
23		23	Q (BY MR. SMYSER) How can you tell that
2	 A That's correct. Q (BY MR. SMYSER) Okay. Let's go to the next slide, if we could. This slide is headed 1962 guide from American Petroleum Institute. What is the American Petroleum Institute? A It is an organization that is funded by the oil industry. And it does various things on behalf of the oil industry in the U.S. Q Among the things it does is to promulgate standards that generally reflect the understanding of the industry about various practices? MR. SELEY: Objection. Calls for speculation. Misstates facts. A No, I would not say they promulgate standards. Only government institutions can promulgate standards. Q (BY MR. SMYSER) Fair enough. How about I'm sorry. What is your understanding that they do with respect to guidelines or standards regarding industry practice? A I don't know what all the American 	2	THE DEPONENT: Could you blow up the
3		3	legend, please? The legend at the lower right, could
4		4	you blow that up, please, a little bit?
5		5	Q (BY MR. SMYSER) Does that help or is that
6		6	still too blurry?
7		7	A I can read it, thanks. Okay. Thanks.
8		8	Can we go back to the this shows I think primarily
9		9	two things. One, the use of tanks. You can see
10		10	multiple tanks that are used for different aspects of
11		11	handling what comes up out of the well. And, again,
12		12	Texaco did not use tanks. And the use of tanks helps
13		13	protect environmental contamination. It keeps what
14		14	comes up out of the well contained rather than
15		15	putting it out into open pits.
16		16	The second key feature that I was trying
17		17	to show with this figure is can you go up to the
18		18	upper right, please? Yeah, that's good, that's good.
19		19	That's fine, thanks.
20		20	What this figure shows is that the
21		21	production water that came up out of the well with
22		22	the oil was reinjected underground.

23 (Pages 86 to 89)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	90			92
1	well there in the upper right is labeled as a salt	1	reinjection well. And then there are a couple in the	
2	there it is, salt water disposal well. So salt water	2	foreground and one over there to the left of those	
3	is the production water that comes up out of oil	3	couple in the foreground. Which are the ones which	
4	wells typically is very salty because of the	4	you would think of as being used for storage of	
5	underground formation it's in.	5	production water before it's reinjected?	
6	So in this case the salt water disposal	6	THE DEPONENT: Could you blow up the	
7	well, as it's called, is after is disposing of the	7	legend again, please?	
8	production water after it is separated out from the	8	A I don't remember the specifics.	
9	crude and the gas.	9	MR. SELEY: You're just asking him to	
10	Q Is that called	10	identify it on this?	
11	MR. SELEY: Move to strike.	11	MR. SMYSER: Sorry?	
12	Q (BY MR. SMYSER) Excuse me. Is that	12	MR. SELEY: You're just asking him to	
13	called reinjecting the production water?	13	identify it on this diagram?	
14	A Yes.	14	MR. SMYSER: Yes.	
15	Q And is it reinjected into a different	15	THE DEPONENT: Can you go back to the ma	ain
16	location, formation, or depth than where the original	16	figure and can you blow up the tank? Can I do that?	?
17	oil and production water was produced from?	17	Can you blow up that tank, please?	
18	MR. SELEY: Objection. Calls for expert	18	A Yeah. So this is labeled as a salt water	
19	testimony.	19	disposal tank. And so this would be a tank where the	е
20	A From what I've read, it can be in a	20	production water is being stored prior to its	
21	different formation. It can be in the same	21	reinjection underground. And you can see it's in	
22	formation.	22	line with the reinjection well, which is off to the	
23	Q (BY MR. SMYSER) If it's in the same	23	right of the screen right now, and then a temporary	
24	formation, is it reinjected in a way that it's	24	pond to store that water.	
25	calculated to be pumped back up again?	25	MR. SELEY: Move to strike.	
	91			93
1	MR. SELEY: Objection. Calls for expert	1	MR. SMYSER: And I think we've come to a	
2	testimony.	2	spot where the tape needs to be changed.	
3	A Well, I would I don't know. I would	3	THE VIDEOGRAPHER: Going off the record	at
4	guess, hopefully not. What I have read is that it	4	11:17.	
5	can be used to help stimulate the production of	5	(Recess taken from 11:17 a.m. to	
6	essentially, by using the water, you can help force	6	11:20 a.m.)	
7	the oil up out of the wells. But at any particular	7	THE VIDEOGRAPHER: Starts disk number	
8	well, what consideration they would be put into	8	three. It's 11:20. Back on the record.	
9	exactly where and how to reinject, I don't think I	9	Q (BY MR. SMYSER) Mr. Beltman, is it your	
10	could speak to it.	10	understanding that Texaco first began to drill in the	e
11	Q (BY MR. SMYSER) Okay. What other	11	concession in 1967?	
12	purposes were served by your use of the slide?	12	A It's my understanding that that's when the	
13	MR. SELEY: Objection. Calls for expert	13	first production well went online.	
14	testimony.	14	Q And is it also your understanding, based	
15	A I think those are the key features showing	15	on this slide, that by 1962 the guide from the	
16	that in 1962, prior to Texaco starting operations in	16	American Petroleum Institute indicated that the	
17	Ecuador, the oil industry standards and expectations	17	industry standard for disposal of production waste	
18	for how to operate an oil well were very different	18	was to reinject it?	
19	than how Texaco operated.	19	MR. SELEY: Objection. Calls for expert	
20	MR. SELEY: Move to strike.	20	testimony. Lacks foundation and calls for	
21	Q (BY MR. SMYSER) And which are the tanks?	21	speculation.	
22	Which of the it looks to me like there's several	22	A For produced water, yes. Produced water	
23	tanks depicted here. There's three in a row over	23	is to be reinjected.	
24		1.74	() (BY NU SMYSED) Dight Okoy Late go	
25	there where some men are standing on a catwalk. There's a big one that seems to be tied to the	24 25	Q (BY MR. SMYSER) Right. Okay. Let's go to the next slide. And you focused on produced	

24 (Pages 90 to 93)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	94		96
1	water, which is the title of this slide. What do	1	MR. SELEY: Same objections.
2	Texaco's own audits show regarding their practice	2	A My opinion was that it did contaminate the
3	with respect to produced water?	3	streams and rivers into which the produced water was
4	MR. SELEY: Objection. Calls for expert	4	discharged.
5	testimony.	5	MR. SELEY: Move to strike.
6	A In their audits Texaco reports that they	6	Q (BY MR. SMYSER) And would that
7	discharged approximately 18 billion gallons of	7	contamination pose a threat to animal life in those
8	produced water from their wells.	8	streams and rivers?
9	Q (BY MR. SMYSER) And as an environmental	9	MR. SELEY: Objection. Calls for expert
10	scientist, and based on your background, training,	10	testimony. Calls for speculation.
11	experience and work on this matter, do you have an	11	A Yes. I have looked at data for the
12	opinion as to whether or not that discharge of 18	12	chemical composition of the produced water, and
13	billion gallons into Ecuador streams and rivers	13	Q (BY MR. SMYSER) What does the data of the
14	comported with good industry practice?	14	chemical composition of produced water show you? And
15	MR. SELEY: Objection. Calls for expert	15	I think we do get to that in a little bit, but I'm
16	testimony.	16	jumping the gun.
17	A Yes, I do.	17	MR. SELEY: Objection. Calls for expert
18	Q (BY MR. SMYSER) And what's your opinion?	18	testimony.
19	MR. SELEY: Same objection.	19	A What I recall is that for for the
20	A My opinion is that it did not comport with	20	ecology of the streams and rivers, the saltiness of
21	practice to reduce or minimize environmental	21	the water alone would cause toxicity, that the
22	contamination.	22	produced water has a high salt content. The fish,
23	Q (BY MR. SMYSER) Okay. And was that your	23	plants and vertebrates of the rainforest, streams and
24	opinion at the time you developed this slide show?	24 25	rivers are not adapted to dealing with high salt
25	A Yes.	25	content. And that high salt content in water can
	95		97
1	Q Would this practice was it your opinion	1	kill freshwater organisms.
2	that this practice of discharging production water	2	And the salt content of this produced
3	into the streams and rivers of Ecuador would be	3	water, based on the data I've seen, would kill
4	calculated to cause environmental harm to the	4	freshwater organisms.
5	environment?	5	MR. SELEY: Move to strike.
6	MR. SELEY: Objection. Calls for expert	6	Q (BY MR. SMYSER) And in the course of your
7	testimony. Calls for speculation.	7	work and investigation of what happened in this area,
8	A I can't say whether it was calculated to	8	did you determine from reports from individuals
9	cause environmental harm. I don't know what their	9	there, and any other sources, that, in fact, animal
10 11	incentives were, what their motivations were. I	10	life in the rivers and streams was affected adversely
12	believe it certainly did cause it. But whether it was intentional or not, I can't say.	12	by the discharge of production water into the streams?
13	-	13	MR. SELEY: Objection. Calls for expert
	MP SELEV: Mova to strika	1-0	WIR. SELET. Objection. Calls for expert
1114	MR. SELEY: Move to strike.	14	testimony Calls for hearsay
14 15	Q (BY MR. SMYSER) Fair enough. Let me	14 15	testimony. Calls for hearsay. A I recall reading some some anecdotal
15	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might.	1	A I recall reading some some anecdotal
	Q (BY MR. SMYSER) Fair enough. Let me	15	5
15 16	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to	15 16	A I recall reading some some anecdotal observations, I would call them, of fish kills or
15 16 17	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion	15 16 17	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was
15 16 17 18	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion gallons of production water from 1972 to 1990 into	15 16 17 18	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was associated with an oil spill, not produced water
15 16 17 18 19	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion gallons of production water from 1972 to 1990 into Ecuador's streams and rivers contaminated the	15 16 17 18 19	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was associated with an oil spill, not produced water discharge itself. I can't recall right now that I've
15 16 17 18 19 20	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion gallons of production water from 1972 to 1990 into Ecuador's streams and rivers contaminated the environment in that rainforest?	15 16 17 18 19 20	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was associated with an oil spill, not produced water discharge itself. I can't recall right now that I've heard or read anything about impacts to organisms
15 16 17 18 19 20 21	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion gallons of production water from 1972 to 1990 into Ecuador's streams and rivers contaminated the environment in that rainforest? MR. SELEY: Objection. Calls for expert	15 16 17 18 19 20 21	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was associated with an oil spill, not produced water discharge itself. I can't recall right now that I've heard or read anything about impacts to organisms from produced water specifically.
15 16 17 18 19 20 21 22	Q (BY MR. SMYSER) Fair enough. Let me reask that question, if I might. Did you form an opinion at the time as to whether or not the discharge of some 18 billion gallons of production water from 1972 to 1990 into Ecuador's streams and rivers contaminated the environment in that rainforest? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation.	15 16 17 18 19 20 21 22	A I recall reading some some anecdotal observations, I would call them, of fish kills or dead fish in rivers. What I recall is that that was associated with an oil spill, not produced water discharge itself. I can't recall right now that I've heard or read anything about impacts to organisms from produced water specifically. Q (BY MR. SMYSER) Okay. Let's go to the

25 (Pages 94 to 97)

	98		100
1	MR. SELEY: Objection. Lacks foundation.	1	out of oil wells.
2	Calls for speculation.	2	Q (BY MR. SMYSER) And the illustration at
3	A This is not my photo. I can't say	3	the bottom right has a red circle around what appears
4	specifically what this is depicting.	4	to be the word water. Could you tell us what is the
5	Q (BY MR. SMYSER) Why did you choose this	5	purpose of that illustration in that circle?
6	photo for this slide?	6	A This illustration depicts what's happening
7	A I, like I said earlier, I've been to some	7	underground. There's the oil reservoir that is in
8	of the processing stations where the produced water	8	contact with the water, and then also you can see
9	was discharged. But today, and when I visited the	9	above the oil there's a little pocket of gas. So all
10	site, the produced water isn't discharged anymore	10	three occur together underground.
11	into streams and rivers. It's reinjected.	11	And when oil is brought to the surface,
12	So I don't have any photos myself of what	12	it's not just oil. It's produced water and gas as
13	it would look like when over this period 18 billion	13	well.
14	gallons of produced water was discharged into streams	14	Q Let's go to the next slide, if we might.
15	and rivers.	15	Again, we're talking about produced water. Your
16	This is my understanding is this is an	16	slide indicates that Petroequador began reinjecting
17	older photograph. So what I was trying to depict	17	produced water. When did that happen
18	here is this is what it could look like at that time	18	MR. SELEY: Objection. I'm sorry. I
19	when they're discharging produced water directly into	19	apologize. Objection. Calls for expert testimony.
20	streams and rivers.	20	A The documents that I have read say they
21	MR. SELEY: Move to strike.	21	began this soon after they took over operations in
22	Q (BY MR. SMYSER) And you chose this photo	22	1990. And those documents are the audits by Texaco
23	based on your background, training and experience as	23	because the audits were actually conducted a couple
24	what you thought would be a true and accurate	24	of years after 1990.
25	depiction of what discharge of produced waters from a	25	Q (BY MR. SMYSER) And what does
	99		101
1	production plant into the streams and rivers from	1	Petroequador do with all of the produced water now?
2	1972 to 1990 would look like?	2	MR. SELEY: Objection. Calls for expert
3	MR. SELEY: Objection. Calls for expert	3	testimony and calls for speculation.
4	testimony. Calls for speculation. Lacks foundation.	4	Q (BY MR. SMYSER) Or let me rephrase the
5	A I really don't know. The pipes that I've	5	question. What does your slide indicate that
6	seen, that, again, are not now producing or	6	Petroequador did with the produced water at the time,
7	discharging produced water, but used to, were	7	all the produced water at the time?
8 9	probably about this size or bigger. Where I've seen	8	MR. SELEY: Same objections.
10	the pipes, there are more than one, like in this	10	A When I put the slides together, the
11	photo. But what I don't know is at that time, how fast the water would be flowing out. It could be	11	information that I had was that all of the produced water was being reinjected by Petroequador.
12	flowing faster than what we see here. I just don't	12	Q (BY MR. SMYSER) Now, a moment ago I asked
13	know. I think it could have looked like this, but I	13	you whether or not produced water into the rivers and
14	don't know.	14	streams might be toxic to aquatic life. Your slide
15	MR. SELEY: Move to strike.	15	indicates that it was toxic to aquatic life?
16	Q (BY MR. SMYSER) Let's go to the next	16	A That's correct.
17	slide. This is more about oil field produced water.	17	Q And that in addition to salt, the produced
18	And can you tell us generally why you used this	18	water contained high levels of petroleum
19	slide, what the purpose of it was?	19	hydrocarbons?
20	MR. SELEY: Objection to the extent it	20	MR. SELEY: Objection. Calls for expert
21	calls for expert testimony.	21	testimony.
22	A The reason I used this slide is to help	22	A That's right. I've seen data where the
23	explain what produced water is. I think people are	23	produced water was analyzed chemically and it shows
24	in general more familiar with oil coming out of oil	24	petroleum hydrocarbons at high levels in the produced
25	wells, but aren't familiar with produced water coming	25	water that was being discharged.

26 (Pages 98 to 101)

	102		104
1	Q (BY MR. SMYSER) And would high levels of	1	oil would build up in the sediments downstream and
2	petroleum hydrocarbons in produced water dumped into	2	that can cause an environmental problem, just from
3	streams and rivers be toxic to aquatic life in those	3	the buildup of oil over time.
4	rivers?	4	The second reason it's important is that
5	MR. SELEY: Objection. Calls for expert	5	many of these components in petroleum and that were
6	testimony. Calls for speculation.	6	measured in the produced water are more toxic to
7	A It depends on the concentrations.	7	people when we drink them than they are to, say, fish
8	Q (BY MR. SMYSER) Okay.	8	in the river. So it's important from that aspect as
9	A The presence alone would not be toxic.	9	well.
10	And I wasn't trying to suggest that in this slide,	10	MR. SELEY: Move to strike.
11	but it would depend on the concentration.	11	Q (BY MR. SMYSER) And was it your opinion
12	Q Does your slide indicate that high levels	12	at the time that these high levels of petroleum
13	of petroleum hydrocarbons would be toxic to aquatic	13	hydrocarbons in the stream presented both of those
14	life?	14	dangers that you just described to us?
15	MR. SELEY: Objection. Calls for expert	15	MR. SELEY: Objection. Calls for expert
16	testimony.	16	testimony.
17	A I don't think so. I think what I was	17	A Yes, it was. The first danger, as I
18	doing in this slide was was saying that the	18	described, was based on what is known about the
19	produced water, the data on the produced water,	19	toxicity of salt to freshwater organisms. The second
20	showed that it was toxic to aquatic life. And at	20	danger to humans. I think there's a slide later on,
21	that time the data that I had showing it was toxic	21	although I'm not a human health toxicologist myself,
22	was the salt content.	22	in comparing the data on the produced water of the
23	In addition to the toxicity to aquatic	23	petroleum hydrocarbon content, to EPA's standards for
24	life caused by salt content alone, the point here is	24	the protection of human health, this produced water
25	that the produced water also had high levels of	25	had petroleum hydrocarbons in it that was much, much
	103		105
			105
1	petroleum hydrocarbons.	1	higher than the EPA standards. And that indicates
1 2	petroleum hydrocarbons. MR. SELEY: Move to strike.	1 2	
			higher than the EPA standards. And that indicates
2	MR. SELEY: Move to strike.	2	higher than the EPA standards. And that indicates that it is a danger.
2 3	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to	2 3	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike.
2 3 4 5 6	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an	2 3 4 5 6	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the
2 3 4 5 6 7	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being	2 3 4 5 6 7	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes.
2 3 4 5 6 7 8	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons.	2 3 4 5 6 7 8	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo?
2 3 4 5 6 7 8 9	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me?	2 3 4 5 6 7 8 9	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing
2 3 4 5 6 7 8 9 10	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert	2 3 4 5 6 7 8 9	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations
2 3 4 5 6 7 8 9 10 11	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony.	2 3 4 5 6 7 8 9 10 11	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell
2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we	2 3 4 5 6 7 8 9 10 11 12	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these
2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum	2 3 4 5 6 7 8 9 10 11 12 13	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water	2 3 4 5 6 7 8 9 10 11 12 13 14	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. And these are the pipes where the produced water was discharged by Texaco from this particular
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. And these are the pipes where the produced water was discharged by Texaco from this particular processing station.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water or in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. And these are the pipes where the produced water was discharged by Texaco from this particular processing station. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. And these are the pipes where the produced water was discharged by Texaco from this particular processing station. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water or in some cases, just plain old oil mixed with the water, when they're dumped in the environment, the oil can	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. MR these are the pipes where the produced water was discharged by Texaco from this particular processing station. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Where MR. SELEY: Move to strike. It's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water or in some cases, just plain old oil mixed with the water, when they're dumped in the environment, the oil can accumulate in the rivers and streams downstream of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. MR these are the pipes where the produced water was discharged by Texaco from this particular processing station. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Where MR. SELEY: Move to strike. It's speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water, when they're dumped in the environment, the oil can accumulate in the rivers and streams downstream of the dumping point.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. MR these are the pipes where the produced water was discharged by Texaco from this particular processing station. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Where MR. SELEY: Move to strike. It's speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water or in some cases, just plain old oil mixed with the water, when they're dumped in the environment, the oil can accumulate in the rivers and streams downstream of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. MR these are the pipes where the produced water was discharged by Texaco from this particular processing station. Q (BY MR. SMYSER) Where MR. SELEY: Move to strike. It's speculation. Q (BY MR. SMYSER) Where is it being
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I guess I'm trying to figure out why it would be significant to you as an environmental scientist that water contained high levels of petroleum hydrocarbons, if there weren't some adverse environmental effect from there being high levels of petroleum hydrocarbons. Could you explain that for me? MR. SELEY: Objection. Calls for expert testimony. A I'll try. First of all, the data that we have on the produced water with the high petroleum hydrocarbons, this tells us that the produced water was not only toxic to aquatic life because of the salt content alone, but it had the oil components in it. That's important for a couple of reasons. One, over time, as these oil components in the water or in some cases, just plain old oil mixed with the water, when they're dumped in the environment, the oil can accumulate in the rivers and streams downstream of the dumping point. So even if the water itself, aside from	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 higher than the EPA standards. And that indicates that it is a danger. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you about the photo on the right-hand side. Is this a photo that you took? A Yes. Q And what is represented in that photo? A These are four pipes at the processing stations station Sacha Central, one of the processing stations that Texaco built and operated. It's hard to tell from the perspective on this photo, but each these pipes are at least two feet in diameter, maybe bigger. MR SELEY: Move to strike. Q (BY MR. SMYSER) Where MR. SELEY: Move to strike. It's speculation. Q (BY MR. SMYSER) Where is it being discharged into?

27 (Pages 102 to 105)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	106		108
1	Q If you know. I mean, I don't know if this	1	essentially petroleum content in produced water, at
2	is a river, a stream, or just a pool or what?	2	various stations built and operated by Texaco. I
3	A Yeah, I didn't there is no stream.	3	took these data from the what is cited there the
4	This is the start. So there's not a stream flowing	4	Fugro-McClelland 1992 report, which is one of the
5	by, but this is, because of the water that is coming	5	Texaco audits.
6	out. And this water, I was told, was essentially	6	And the purpose of this slide is to show
7	stormwater that is collected at the facility now as	7	the concentrations of TPH or oil content measured in
8	it rains and washes off the facility and comes out	8	the produced water at these stations at that time.
9	through these pipes now.	9	Q (BY MR. SMYSER) The Fugro-McClelland 1992
10	But this is the start of whatever this	10	report was done by someone hired by Texaco?
11	waterway is, and I didn't walk down this stream. But	11	A That's what the report says, yes.
12	I was told that this stream eventually joins up with	12	Q Now, I can't read the legend on the side.
13	a larger stream or river in the area of Sacha where	13	It says TPH. And is that milligrams per liter?
14	people do live.	14	A Correct.
15	Q You were told it eventually does join up	15	Q And then what do those numbers represent
16	with a stream like that?	16	on the side, the Y axis?
17	MR. SELEY: Objection.	17	A Those numbers on the Y axis represent the
18	A Yes.	18	milligrams of TPH, or we can say milligrams of oil,
19	Q (BY MR. SMYSER) Was this photo a true and	19	contained in every liter of water for the
20	accurate representation of what you saw there that	20	measurements that were taken at that time.
21	day?	21	Q And there is a little arrow that is
22	A Yes.	22	attached to the words Ecuador limites 0.325
23	Q Let's go to the next slide. This	23	milligrams per liter TPH. What does that mean?
24	indicates that U.S. regulations for onshore discharge	24	MR. SELEY: Objection. Calls for expert
25	of produced water date back to the '20s as we	25	testimony.
	107		109
1	discussed earlier, but since then, what is the	1	A That is pointing out a concentration of
2	standard for how produced water is handled	2	0.325 milligrams per liter TPH, which at the time I
3	MR. SELEY: Objection.	3	was putting these slides together, it was my
4	Q (BY MR. SMYSER) by the industry?	4	understanding that that's the Ecuadorian regulation
5	MR. SELEY: Objection. Calls for expert	5	for the maximum TPH content allowed in surface water
6	testimony.	6	like streams and rivers.
7	A What I was saying in this slide is that	7	Q (BY MR. SMYSER) Does that yellow line
8	the primary standard is to not contaminate the	8	that stretches across, right above the X axis, meant
9	environment with the produced water. And reinjection	9	to represent the 0.325 limit that you've just
10	is the primary way in which that's avoided. In some	10	described to us?
11	cases, if the chemical composition of the produced	11	A Yes.
12	water allows, it can be treated to meet standards,	12	Q And that would indicate that every site
13	whether they're state standards or EPA standards, and	13	where the bar graph dark bar exceeds that yellow line
14	then discharged to the surface. But primarily, it's	14	that it has exceeded the Ecuadorian limit on the
15	reinjection back into the ground.	15	presence of TPH in water?
16	Q (BY MR. SMYSER) Okay. Let's go to the	16	MR. SELEY: Objection. Calls for expert
17	next slide. Entitled Texaco produced water. The top	17	testimony. Calls for a legal conclusion.
18	of the bar graph has as a title, TPH in Agua de	18	A Yes, that's what that shows.
19	Formacion. I assume that means total petroleum	19	Q (BY MR. SMYSER) And was that the purpose
20	hydrocarbons in formation water?	20	of this slide?
21	A Yes, that is correct.	21	A In part. Comparing it to the Ecuadorian
22	Q And what is the purpose of this slide?	22	standard is part of it, but
23	MR. SELEY: Objection. Calls for expert	23	Q What's the other part?
24	testimony.	24	A The other part is, even aside from the
25	A This is a slide that shows data on TPH,	25	Ecuadorian standard comparison, these data clearly

28 (Pages 106 to 109)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	110		112
1	show that the water being discharged contained TPH.	1	exposed to benzene complain about headaches, for
2	And as I mentioned before, that's of concern, both	2	example, dizziness. But it is documented as a
3	from an ecological health perspective and the human	3	carcinogen.
4	health perspective. Just the fact that oil is being	4	MR. SELEY: Move to strike.
5	discharged into streams and rivers is of concern.	5	Q (BY MR. SMYSER) And what does your data
6	MR. SELEY: Move to strike.	6	indicate was the EPA benzene standard for the amount
7	Q (BY MR. SMYSER) And each one of the sites	7	of benzene that was acceptable in water?
8	on the X axis, Aguarico, Atacpi, ABG, et cetera, what	8	MR. SELEY: Objection. Calls for expert
9	are those sites? Are those well sites or are they	9	testimony. Lacks foundation.
10	processing stations?	10	A The EPA standard at that time and still is
11	A They are processing stations.	11	for benzene in drinking water is 5 micrograms per
12	Q Okay. And I think you told us previously	12	liter, which is 0.005 milligrams per liter.
13	that the processing station is where the oil, the gas	13	Q (BY MR. SMYSER) And is that what UG
14	and the formation water are separated and the water	14	indicates, micrograms?
15	is then discharged into the stream and river?	15	A Yes.
16	MR. SELEY: Objection. Calls for expert	16	Q Okay. And what did your data show with
17	testimony.	17	respect to Sacha Central, Shushufindi North and
18	A That's correct.	18	Shushufindi South, regarding the presence of benzene
19	Q (BY MR. SMYSER) Let's go to the next	19	in the water?
20	slide. BTEX in Texaco produced water, what is BTEX?	20	MR. SELEY: Objection. Calls for
21	A That's an acronym for the petroleum	21	speculation. Lacks foundation. This isn't his data.
22	compounds benzene, toluene, ethylbenzene and xylenes.	22	A These are data from samples collected and
23	Q And why did you choose to focus on the	23	analyzed by Jocknick, et al., 1994. It's a group of
24	presence of benzene, toluene, ethylbenzene and	24	researchers, my understanding is from Harvard, who
25	xylenes in produced water?	25	conducted the study in Ecuador at that time.
	111		113
1	MR. SELEY: Objection to the extent it	1	They collected samples of produced water
2	calls for expert testimony.	2	at these three stations, Sacha Central, Shushufindi
3	A These compounds occur in oil and they also	3	North, Shushufindi South.
4	occur in this particular oil. I have data that show	4	And the data they report shows benzene
5	that they are in this particular oil in this field.	5	from the produced water from all three stations of
6	They're also among the more water-soluble compounds	6	above a thousand micrograms per liter. And in the
7	in the oil. So if we're looking at water in contact	7	case of Sacha Central, benzene is up to approximately
8	with oil such as the produced water that is then	8	2,500 micrograms per liter in the produced water.
9	discharged into the environment, these particular	9	Q (BY MR. SMYSER) And would that have
10	compounds are ones we want to pay specific attention	10	been would a similar figure have been present in
11	to because they're quite soluble in water, which	11	produced water during the time that Texaco was
12	means they can move from the oil into the water.	12	discharging produced water into the streams and
13 14	They're also toxic to humans, in particular, benzene	13 14	rivers of the Amazon rainforest?
15	especially is quite toxic. Q (BY MR. SMYSER) Why is benzene toxic to	15	MR. SELEY: Objection. Calls for complete speculation.
16	humans, if you know?	16	
17	MR. SELEY: Objection calls for expert	17	Q (BY MR. SMYSER) Well, let me go at it this way. The oil produced water comes from oil,
18	testimony.	18	correct?
19	Q (BY MR. SMYSER) Is it a carcinogen, does	19	A It comes up out of the ground with the
20	it induce broken legs, dizziness, heart attacks, poor	20	oil, yes.
21	basketball shots, what is your understanding of what	21	Q Out of the ground with the oil. The oil
22	is wrong with benzenes for humans?	22	that is going into Sacha Central comes from wells
23	MR. SELEY: Same objection.	23	that were either at the same site or very close to
24	A My understanding is it's a carcinogen. It	24	wells that Texaco had in the concession from 1972 to
25	also can cause neurologic effects. Many people	25	1990, correct?

29 (Pages 110 to 113)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	114		116
1	MR. SELEY: Objection. Calls for	1	also toxic.
2	speculation.	2	Q (BY MR. SMYSER) How about ethylbenzene?
3	A These particular data we're looking at,	3	MR. SELEY: Same objections.
4	the report was published in 1994.	4	A Similar story as with toluene, it's one of
5	Q (BY MR. SMYSER) Um-hum.	5	these family of all these similar compounds, BTEX,
6	A I don't remember when they collected the	6	fairly water soluble. It's present in oil. It's
7	samples. It would have been probably before 1994. I	7	present in this oil. It can get from oil into water
8	don't even remember if it was before or after	8	and this data show in fact it has gotten into the
9	operations moved from Texaco to Petroequador.	9	produced water.
10	So if these were not collected prior to	10	Q (BY MR. SMYSER) And do you now have any
11	1990, I would expect them to be representative of the	11	or did you then have any understanding of what the
12	produced water that was coming from those stations	12	EPA standard was?
13	because it's coming from the same wells, using the	13	MR. SELEY: Same objections.
14	same process essentially, as was happening during	14	A I don't remember. I don't think there is
15	Texaco's operations. But, I don't know, they may in	15	one for ethylbenzene, but I'm not sure.
16	fact be data during Texaco's operations. I don't	16	Q (BY MR. SMYSER) How about xylenes?
17	remember.	17	MR. SELEY: Same objections.
18	MR. SELEY: Move to strike.	18	A Again, it's in this same family. These
19	Q (BY MR. SMYSER) And you anticipated my	19	data show that it's present in the produced water.
20	question, which is, would these be representative and	20	It's a petroleum hydrocarbon compound that can be
21	what you would expect as an environmental scientist	21	toxic to humans. I don't recall if when I put this
22	to be similar to the values that would have been	22	figure together I looked up what its EPA standard is.
23	present when Texaco was operating the wells?	23	Q (BY MR. SMYSER) So you can't tell us
24	MR. SELEY: Objection. Calls for	24	whether you had an opinion then as to whether the
25	speculation. Calls for expert testimony.	25	amounts of toluene, ethylbenzene and xylene reflected
	115		117
1	A From what I've read about the operations	1	on these bar graphs was or was not considered to be
2	of Texaco and Petroequador in the early 1990s, there	2	in violation of any particular standard?
3	were no differences in those operations that would	3	A I don't recall I don't recall if I did
4	cause the produced water to have any different	4	a comparison then or not. I don't know.
5	character or concentrations of contamination between	5	Q Okay. So you can't
6	what was coming out of the ground when Petroequador	6	A For those compounds.
7	was operating and what was coming out of the ground	7	Q So you can't tell us whether the compounds
8	when Texaco was operating.	8	in these amounts presented a danger to human life?
9	MR. SELEY: Move to strike.	9	MR. SELEY: Objection. Calls for expert
10 11	Q (BY MR. SMYSER) What about the chemical	10 11	testimony.
12	toluene? What is the significance of the use of toluene in this sampling?	12	A What I recall is when I put this slide
13	MR. SELEY: Objection. Calls for expert	13	together, I was focusing on benzene. Benzene is a compound that I think more people have heard about
14	testimony.	14	and have heard about its toxicity. And benzene is
15	A Toluene is another chemical that like	15	higher, is at higher concentrations in the produced
16	benzene is fairly soluble in water. It means it can	16	water samples here than the other compounds. And
17	dissolve in water, at least amongst all the other	17	benzene alone is enough to show that the produced
18	all the compounds in oil. It, too, is toxic to	18	water greatly exceeds the EPA drinking water
19	humans. I don't recall when I was putting this slide	19	standards.
20	together if I looked up I don't even know if it	20	Q (BY MR. SMYSER) Let's go to the next
21	has a drinking water standard from EPA.	21	slide. This is perhaps the end of this series of
22	But so I can't say now whether these	22	slides, these next two. Well, nope, I'm wrong about
23	concentrations that I was showing here also exceed a	23	that. The next three on other sources of
24	5		
~ -	standard or a health-based number for toluene. But I	24	contamination. What are you indicating in this slide
25	standard or a health-based number for toluene. But I do know that toluene at sufficient concentrations is	24 25	contamination. What are you indicating in this slide as another source of contamination?

30 (Pages 114 to 117)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	118		120
1	MR. SELEY: Objection to the extent it	1	describe that at spills the workers would put dirt
2	calls for expert testimony.	2	over the spills or maybe mix in, mix in something to
3	A What I'm indicating here is that another	3	absorb the oil on the ground. I mean, that's
4	of the sources of contamination was spills from	4	different than having a program in place to respond
5	pipelines. They were pipelines running from each oil	5	to and clean up oil spills. So I don't think from
6	well to production stations. They were pipelines	6	the audits, I don't recall that the audits indicate
7	running between the production stations. And, of	7	that when oil was spilled, nothing was done. The
8	course, the big pipeline running to the coast. And	8	audits do report that in some cases something was
9	in this slide, there's a picture of a group of	9	done, but not a the audits describe they don't
10	pipelines running along a road, that I took to depict	10	describe a cleanup program intended to remove the oil
11	that these pipelines were built above ground, that	11	from the environment.
12	these it's not just one or two pipelines. In some	12	Q (BY MR. SMYSER) In your experience with
13	places there are multiple pipelines. There might be	13	oil spill remediation, would dumping dirt on the oil
14	there are at least ten running alongside the road	14	be considered an appropriate remediation for an oil
15	here.	15	spill?
16	And the information in Texaco's audits	16	MR. SELEY: Objection. Calls for
17	that I've read report that when Texaco operated, they	17	speculation. Calls for expert testimony.
18	did not have a program in place to detect oil spills	18	Q (BY MR. SMYSER) Or would it have been at
19	or to respond to oil spills when they happened. The	19	the time?
20	audits described that certainly when oil spills were	20	MR. SELEY: Same objections.
21	noticed, they would shut down the pipeline, but they	21	A It doesn't remove the oil. It doesn't get
22	had no program in place to monitor for oil spills or	22	rid of the oil. Depending on it might help keep
23	respond to them and clean them up.	23	the oil there. It might immobilize the oil a little
24	Q I suspect it would be the case that when	24	bit. But typically with a spill, the cleanup efforts
25	an oil spill occurred, you would expect that an oil	25	are focused on getting the oil out of the
	119		121
1	119 company would want to stop that oil from leaking from	1	environment.
1 2	-	1 2	
	company would want to stop that oil from leaking from		environment.
2	company would want to stop that oil from leaking from the pipeline as fast as possible?	2	environment. Q (BY MR. SMYSER) And as best you could
2 3	company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume.	2 3	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not
2 3 4 5 6	company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in	2 3 4 5 6	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the
2 3 4 5 6 7	company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents	2 3 4 5 6 7	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil 	2 3 4 5 6 7 8	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether
2 3 4 5 6 7 8 9	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination 	2 3 4 5 6 7 8 9	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they
2 3 4 5 6 7 8 9 10	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? 	2 3 4 5 6 7 8 9	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So
2 3 4 5 6 7 8 9 10 11	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. 	2 3 4 5 6 7 8 9 10 11	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit
2 3 4 5 6 7 8 9 10 11 12	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? 	2 3 4 5 6 7 8 9 10 11 12	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack
2 3 4 5 6 7 8 9 10 11 12 13	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did 	2 3 4 5 6 7 8 9 10 11 12 13	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil
2 3 4 5 6 7 8 9 10 11 12 13 14	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. 	2 3 4 5 6 7 8 9 10 11 12 13 14	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Degrade over whatever 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill. Q (BY MR. SMYSER) Okay. I want to be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Degrade over whatever period of time I guess it degrades? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill. Q (BY MR. SMYSER) Okay. I want to be careful, too. Would it be fair to say that your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Degrade over whatever period of time I guess it degrades? A I recall 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill. Q (BY MR. SMYSER) Okay. I want to be careful, too. Would it be fair to say that your review of the audit documents indicated that, in a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Degrade over whatever period of time I guess it degrades? A I recall MR. SELEY: Objection. Calls for 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill. Q (BY MR. SMYSER) Okay. I want to be careful, too. Would it be fair to say that your review of the audit documents indicated that, in a majority of circumstances you can remember, the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 company would want to stop that oil from leaking from the pipeline as fast as possible? A I would assume. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Do you know whether in your review of Texaco's audits and Texaco's documents Texaco had in place a program to clean up any oil waste that occurred because of oil contamination that occurred because of an oil pipeline spill? A Yes. Q And what did you learn? A The audit documents say that Texaco did not have a cleanup program in place. Q And without a cleanup program, the oil that escaped from the pipeline would just sit there in the environment? MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) Degrade over whatever period of time I guess it degrades? A I recall 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 environment. Q (BY MR. SMYSER) And as best you could determine, looking at the Texaco audits, you did not see efforts to remove the oil, get it out of the environment? MR. SELEY: Objection. Calls for speculation. A I don't recall I don't recall whether there may have been some instances where they describe removal of, say, oil-contaminated dirt. So I don't think I can say that nowhere in those audit documents did they describe that. But there's a lack of the cleanup program in general, says that when oil spills happen, they did not have a program to deal with the oil, including regular cleanup of oil spills. So I want to be careful I don't know if the audit documents never say that oil was removed, but it was not a regular response to an oil spill. Q (BY MR. SMYSER) Okay. I want to be careful, too. Would it be fair to say that your review of the audit documents indicated that, in a

31 (Pages 118 to 121)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	122		124
1	MR. SELEY: Objection. Calls for	1	getting exposed to the oil through the bottom of
2	speculation.	2	their feet. And then they're also going to be
3	A What I recall from the documents is that	3	breathing it in as they're walking along these roads.
4	when you say majority, that suggests that they have a	4	MR. SELEY: Objection. Move to strike.
5	list or description of multiple spill events and they	5	Sorry.
6	describe how Texaco responded to each one. That's	6	Q (BY MR. SMYSER) Does human exposure to
7	not what I recall from the audit documents.	7	oil on the roads through the bottom of their feet
8	The audit documents focus on the lack of a	8	present a danger to the humans who come in contact
9	spill response program. That would mean that in	9	with it?
10	general, when spills happen, their focus is not on	10	MR. SELEY: Objection. Calls for expert
11	cleaning up the environment. And it would also mean	11	testimony. It calls for speculation.
12	that there was not much focus paid to cleaning up oil	12	A I don't know.
13	spills. But, again, I want to be careful about what	13	Q (BY MR. SMYSER) All right. Why would it
14	I recall about the audits.	14	be significant, then, to you, as an environmental
15	I don't recall a list of oil spill events	15	scientist concerned with potential hazards presented
16	with specific descriptions of responses. The focus	16	to the environment, that oil was poured on the roads
17	was more just on a lack of a spill response program.	17	and then humans came into contact with it?
18	Q (BY MR. SMYSER) Okay. Let's go to the	18	MR. SELEY: Objection to the extent it
19	next slide.	19	calls for expert testimony.
20	MR. SELEY: Move to strike as speculation.	20	A The intent here was to help the help
21	Q (BY MR. SMYSER) Let's go to the next	21	the audience get a better understanding of how people
22	slide. What is the significance of your observation	22	down there were exposed to oil. It was in several
23	that Texaco poured oil on the roads?	23	different ways.
24	MR. SELEY: Objection. Lack of	24	And we may not typically think of people
25	foundation, calls for expert testimony.	25	walking along a dirt road being exposed to oil, but
	123		125
1	THE REPORTER: I'm sorry.	1	down there at that time, they were. It was to help
1 2	THE REPORTER: I'm sorry. MR. SELEY: Objection. Lack of	1 2	down there at that time, they were. It was to help understand how people and oil were completely mixed
2	MR. SELEY: Objection. Lack of	2	understand how people and oil were completely mixed
2 3	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony.	2 3	understand how people and oil were completely mixed at that time down there.
2 3 4	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your	2 3 4	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an
2 3 4 5 6 7	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection.	2 3 4 5 6 7	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil
2 3 4 5 6 7 8	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's	2 3 4 5 6 7 8	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time?
2 3 4 5 6 7 8 9	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the	2 3 4 5 6 7 8 9	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads	2 3 4 5 6 7 8 9 10	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation.
2 3 4 5 6 7 8 9 10 11	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand.	2 3 4 5 6 7 8 9 10 11	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at
2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important	2 3 4 5 6 7 8 9 10 11 12	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue.
2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that	2 3 4 5 6 7 8 9 10 11 12 13	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what	2 3 4 5 6 7 8 9 10 11 12 13 14	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking along the roads. It's a very poor area. I would	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases Texaco would set oil pits on fire. And by doing so,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking along the roads. It's a very poor area. I would guess that most people don't have cars. And if you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases Texaco would set oil pits on fire. And by doing so, they're, you can even see in this photo, introducing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking along the roads. It's a very poor area. I would guess that most people don't have cars. And if you want to go from one place to another, they walk.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases Texaco would set oil pits on fire. And by doing so, they're, you can even see in this photo, introducing a lot of air pollution.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking along the roads. It's a very poor area. I would guess that most people don't have cars. And if you want to go from one place to another, they walk. And with the oil poured on the roads as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases Texaco would set oil pits on fire. And by doing so, they're, you can even see in this photo, introducing a lot of air pollution.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Lack of foundation. Calls for expert testimony. Q (BY MR. SMYSER) In the course of your work down there, did you determine that Texaco poured oil on the roads? MR. SELEY: Same objection. A I've read reports, including Texaco's audits, that describe how Texaco poured oil on the dirt roads. In my experience, many of those roads have since been paved, so I didn't see it firsthand. The reason why I think this is important at that time is that the roads are the ways that people get from one place to another. And from what I've seen, typically by walking. Q (BY MR. SMYSER) In Ecuador? A In this region in Ecuador. Q Um-hum. A There are you see many people walking along the roads. It's a very poor area. I would guess that most people don't have cars. And if you want to go from one place to another, they walk.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 understand how people and oil were completely mixed at that time down there. Q (BY MR. SMYSER) Did you have an understanding as to whether or not a discharge of oil onto roads like this used by humans walking on them was a standard or substandard practice in the United States oil industry at that time? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. A No, I don't think I did. I didn't look at that issue. Q (BY MR. SMYSER) Let's go to the next slide. And what is the purpose of this slide? MR. SELEY: Objection to the extent it calls for expert testimony. A What this slides shows is one of the open oil pits on fire. And one of the things I've read is, again, in the Texaco audits, that in some cases Texaco would set oil pits on fire. And by doing so, they're, you can even see in this photo, introducing a lot of air pollution.

32 (Pages 122 to 125)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	126		128
1	time could be exposed to the contamination from the	1	And I take it that you're identifying in
2	oil field operations.	2	this slide the sources of the data on the
3	MR. SELEY: Move to strike.	3	contamination?
4	Q (BY MR. SMYSER) And would air pollution	4	MR. SELEY: Objection. Leading.
5	of this type present a hazard to either animal or	5	Q (BY MR. SMYSER) Is that right?
6	human life?	6	A Yes, this slide is intended to be an
7	MR. SELEY: Objection. Calls for expert	7	introduction into the data that I have looked at on
8	testimony. Calls for speculation.	8	contamination and really split the data into two
9	A I don't know. I don't know whether it	9	categories.
10	alone was a hazard. Certainly air pollution of this	10	Q (BY MR. SMYSER) What are those two
11	type could be. I don't think I I haven't seen any	11	categories?
12	data on what people were breathing in because of open	12	A The, what I call here on the slide
13	burning of oil like this pit. So I don't know.	13	historical studies. And what I meant by that is
14	Q (BY MR. SMYSER) Do you know whether or	14	historical in the sense of studies conducted prior to
15	not burning oil in open pits was consistent with	15	the trial.
16	standard or substandard practice in the U.S. oil	16	And then the second is the data collected
17	industry at the time?	17	as part of the trial, including the judicial
18	MR. SELEY: Objection. Calls for expert	18	inspection data, where plaintiff experts and Chevron
19	testimony. Calls for speculation.	19	experts collected environmental data and Cabrera and
20	A That practice is not one that I looked at	20	his team collected environmental data.
21	very carefully for standard practice in the U.S. at	21	Q Okay. And I want to discuss those with
22	that time. I do recall that the Texaco audits noted	22	you, although you may or may not be aware that the
23	it as a I don't think I can use the word	23	judge, in writing his sentencia, said he wasn't going
24	substandard, but it was a practice that they	24	to consider the Cabrera material. Were you aware of
25	highlighted as	25	that?
	127		129
1	Q (BY MR. SMYSER) Questionable?	1	A Yes, I read that part of his decision.
2	MR. SELEY: Objection.	2	Q Okay. So I'm not going to spend any time
3	A Questionable. A practice that an auditor	3	with you on the Cabrera material because he said he
4	of an oil field made special note of.	4	didn't consider it in writing his sentencia.
5	Q (BY MR. SMYSER) Okay. Let's go to the	5	So let's go to the next slide, if we
6	next picture. I guess now we're getting ready to	6	might. And what is the purpose of this slide?
7	switch into data on contamination. And I would like	7	A This slide, excuse me, is a listing of
8	to take a short break if we could.	8	sources of data collected prior to the trial. So
9	MR. SELEY: Okay.	9	this is a summary of the historical studies I
10	THE VIDEOGRAPHER: Going off the record at	10	described in that previous slide.
11	12:07.	11	Q Okay. And were some of these studies
12 13	(Recess taken from 12:07 p.m. to	12	performed by people associated with or hired by
13 14	1:07 p.m.) THE VIDEOGRAPHER: This starts disk number	13 14	Chevron-Texaco?
15	four. It's 1:07. We're back on the record.	15	A Yes. The first two listed there, HBT AGRA and Fugro-McClelland are the audits that I described
16	Q (BY MR. SMYSER) Mr. Beltman, when we took	16	earlier. And as part of those audits, they did
17	our last break, we had, I think, completed the	17	collect some environmental data.
18	section of your PowerPoint presentation on the	18	Q Okay. And what about the Woodward-Clyde
19	sources of contamination. And I think we're now	19	International study?
20	about to enter the next section in which you talk	20	A That study was also conducted by a
21	about the data that you reviewed that was about the	21	contractor to Chevron-Texaco. And this particular
22	contamination.	22	document describes cleanup, some aspects of the
23	So if you don't mind, I would like to	23	cleanup, that was conducted in the mid to late 1990s,
24	start our discussion of that section with your slide	24	as well as data that were collected as part of that
25	that is headed data on contamination.	25	cleanup work.

33 (Pages 126 to 129)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	130		132
1	Q And then you list some studies that are in	1	Q And how many stations were sampled during
2	Spanish or appear to have been in Spanish from the	2	the judicial inspections?
3	Instituto de Epidemiologia y Salud Communitaria	3	MR. SELEY: Objection. Lack of personal
4	Manuel Amunarriz. I'm sure I mispronounced that.	4	knowledge.
5	And there seem to be two of those in 1999. Those are	5	A 11.
6	different studies, though; is that correct?	6	Q (BY MR. SMYSER) And the total of stations
7	A They're different publications. I don't	7	and wells sampled during the judicial inspection?
8	remember now if they were separate data collections	8	MR. SELEY: Same objection.
9	or if they're two different reports using the same	9	A 45.
10	data, I can't remember.	10	Q (BY MR. SMYSER) And where did you get the
11	Q And the last one is from, it looks like it	11	data on this table for the judicial inspections?
12	was done by the Colegio Fisco-Misional. What is	12	A I don't recall. It would have been either
13	that?	13	from the judicial inspection reports or from a
14	A I don't know.	14	database we had of the data collected during those
15	Q Okay. And did you read these studies or	15	inspections. I can't remember which, which I looked
16	look at the data in these studies in the course of	16	at to get those numbers.
17	doing your work analyzing the data concerning	17	Q All right. Let's go to the next slide, if
18	contamination?	18	we could. And what is the purpose of this slide,
19	MR. SELEY: Objection. Leading.	19	entitled judicial inspections?
20	A Yes, I did look at the data from these	20	MR. SELEY: Objection to the extent it
21	studies. I would say I looked more carefully at some	21	calls for expert testimony.
22	of the studies than others.	22	A I put this slide together to help provide
23	Q (BY MR. SMYSER) Which are the ones you	23	a better description of what was done during the
24	looked most carefully at?	24	judicial inspections. What this slide is pointing
25	A I looked at the data from the Texaco	25	out is that during the judicial inspections, the
	131		133
			133
1	audits. In fact, we discussed some of those data	1	
1 2	-	1	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That
	audits. In fact, we discussed some of those data		environmental sampling included sampling of soils, of
2	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third	2	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That
2 3	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data	2 3	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical
2 3 4	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report	2 3 4	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the
2 3 4 5	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully.	2 3 4 5	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals.
2 3 4 5 6	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a	2 3 4 5 6	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you
2 3 4 5 6 7	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies,	2 3 4 5 6 7	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on
2 3 4 5 6 7 8	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your	2 3 4 5 6 7 8	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled
2 3 4 5 6 7 8 9 10 11	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And 	2 3 4 5 6 7 8 9	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly.
2 3 4 5 6 7 8 9 10 11 12	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide?	2 3 4 5 6 7 8 9 10 11 12	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there
2 3 4 5 6 7 8 9 10 11 12 13	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert	2 3 4 5 6 7 8 9 10 11 12 13	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000
2 3 4 5 6 7 8 9 10 11 12 13 14	audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony.	2 3 4 5 6 7 8 9 10 11 12 13 14	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, how many 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, how many stations were built and operated by Texaco, and then 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, and then how many sites total were sampled during the judicial 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that was collected, there would be more than one chemical
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many stations were built and operated by Texaco, and then how many sites total were sampled during the judicial inspections of the trial, and then by the court 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that was collected, there would be more than one chemical analysis conducted. We get results from more than
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, how many stations were built and operated by Texaco, and then how many sites total were sampled during the judicial inspections of the trial, and then by the court expert, Mr. Cabrera, as part of the trial. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that was collected, there would be more than one chemical analysis conducted. We get results from more than one chemical analysis.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, how many stations were built and operated by Texaco, and then how many sites total were sampled during the judicial inspections of the trial, and then by the court expert, Mr. Cabrera, as part of the trial. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that was collected, there would be more than one chemical analysis conducted. We get results from more than one chemical analysis conducted. We get negative for the sample for the sample is an intermediate piece.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 audits. In fact, we discussed some of those data prior to the break. The Jocknick data, the third study listed there, also looked at those data carefully and went through the Woodward-Clyde report and data quite carefully. Q Okay. And I would like to talk to you a little more in depth about each one of those studies, but I prefer to continue with our walk through your presentation. So let's go to the next slide. And this slide contains a table, but the title of it is, sites sampled during the trial. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide is now to focus on the data collected during the trial. And this table in this slide shows a breakout of how many wells were built and operated by Texaco, how many stations were built and operated by Texaco, and then how many sites total were sampled during the judicial inspections of the trial, and then by the court expert, Mr. Cabrera, as part of the trial. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 environmental sampling included sampling of soils, of sediment, of groundwater and surface water. That those samples were analyzed for different chemical components, including petroleum, some of the individual chemicals within petroleum, some metals. And I showed in this slide that when you add up all of the individual chemical analyses on these samples in the judicial inspections, it totaled 64,000 analyses, roughly. Q (BY MR. SMYSER) Okay. When you say 64,000 analyses, can you break that down for us a bit. Because I guess I'm not understanding, if there were 45 sites sampled and we come up with 64,000 analyses, what is the correlation between those two? A There's an intermediate piece Q Okay. A of numbers which is at each of those sites, multiple samples were collected. And I didn't show in this slide, but then within each sample that was collected, there would be more than one chemical analysis conducted. We get results from more than one chemical analysis.

34 (Pages 130 to 133)

	134		136
1	results that were obtained during the judicial	1	A So this represents the number of samples
2	inspections.	2	removed from the environment and sent to analytical
3	Q Okay. And based on your background,	3	laboratories for chemical analysis.
4	training and experience, would a 64,000 analysis	4	Q (BY MR. SMYSER) There appear to be two
5	total yield a result that had competence or no	5	little footnotes down there at the bottom that I
6	competence with respect to what those analyses found,	6	can't quite see. What do those indicate about the
7	the results of those analyses?	7	sampling. It looks like they are A and B, perhaps
8	MR. SELEY: Objection. Calls for expert	8	from the matrix?
9	testimony. Leading. Calls for speculation.	9	A Yes.
10	A I would say you can't conclude much from	10	Q All right.
11	that number on its own. It depends on where those	11	A So it's providing some clarification. The
12	samples were collected. It depends on how the	12	column there that is titled water, the footnote
13	analyses were conducted, what was analyzed for.	13	indicates that those water samples include samples of
14	So we don't typically look at the raw	14	surface water, that would be streams, rivers,
15	number of chemical analysis on its own to be	15	wetlands. It includes samples of groundwater. And
16	indicative of the validity or invalidity of sampling	16	it includes some samples of production water. So
17	results.	17	we're just defining what we mean by water in that
18	Q (BY MR. SMYSER) Okay. I expected that,	18	row.
19	but I also expected that the reason you had this	19	The other there is, again, it's showing
20	number here must have had some significance to you	20	that what we're grouping there in that row of other,
21	either as an indicator of some degree of statistical	21	the footnote says, includes asphalt, leachate and
22	competence or some other purpose.	22	quality control samples.
23	And if so, could you tell us what that is?	23	Q Okay. What does it indicate about the
24 25	A Yeah, the purpose is that trying to point	24 25	total number of samples that Chevron took?
25	out here that I mean, it goes with the previous	23	A This shows that the total number of
	135		137
1	slide. 93 sites were sampled total between the	1	samples Chevron collected during the judicial
2	judicial inspections and the court expert. That's a	2	inspections was 1,206.
3	lot of sites being sampled. At those samples at	3	Q It looks like that was almost three times
4	those sites it generated 64,000 chemical results,	4	as many samples as the plaintiffs took?
4 5	those sites it generated 64,000 chemical results, that's a lot of chemical results.	4 5	as many samples as the plaintiffs took? A Yep, between two and three times more,
4 5 6	those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of	4 5 6	as many samples as the plaintiffs took? A Yep, between two and three times more, yes.
4 5 6 7	those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I	4 5 6 7	as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now,
4 5 6 7 8	those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's	4 5 6 7 8	as many samples as the plaintiffs took?A Yep, between two and three times more, yes.Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH.
4 5 7 8 9	those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number.	4 5 6 7 8 9	as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for?
4 5 7 8 9 10	those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number.	4 5 7 8 9 10	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum
4 5 7 8 9 10	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and 	4 5 7 8 9 10 11	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in
4 5 7 8 9 10 11 12	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. 	4 5 7 8 9 10 11 12	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample.
4 5 7 8 9 10 11 12 13	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of 	4 5 7 8 9 10 11 12 13	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here.
4 5 7 8 9 10 11 12 13 14	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? 	4 5 7 8 9 10 11 12 13 14	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about?
4 5 7 8 9 10 11 12 13	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it 	4 5 7 8 9 10 11 12 13	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian
4 5 7 8 9 10 11 12 13 14 15	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. 	4 5 6 7 8 9 10 11 12 13 14 15	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of
4 5 7 8 9 10 11 12 13 14 15 16	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. 	4 5 7 8 9 10 11 12 13 14 15 16	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian
4 5 7 8 9 10 11 12 13 14 15 16 17	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil.
4 5 7 8 9 10 11 12 13 14 15 16 17 18	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. 	4 5 7 8 9 10 11 12 13 14 15 16 17 18	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. Q (BY MR. SMYSER) And what is a sample? 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do you mean by that?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. Q (BY MR. SMYSER) And what is a sample? A sample is a chunk of soil or of sediment 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do you mean by that? MR. SELEY: Objection. Calls for expert
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. Q (BY MR. SMYSER) And what is a sample? A A sample is a chunk of soil or of sediment or of water or it could be of crude oil. It's 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do you mean by that? MR. SELEY: Objection. Calls for expert testimony.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. Q (BY MR. SMYSER) And what is a sample? A A sample is a chunk of soil or of sediment or of water or it could be of crude oil. It's something that's removed from the environment and 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do you mean by that? MR. SELEY: Objection. Calls for expert testimony. A When I put this presentation together, my
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 those sites it generated 64,000 chemical results, that's a lot of chemical results. The point is that there was quite a bit of sampling and analysis done. And I don't want to I can't conclude on that number alone whether that's enough or not, but that it's a large number. 64,000 is a big number. Q Okay. And let's go to the next slide and see if that helps us out on the question of samples. What is the purpose of this slide called number of samples? MR. SELEY: Objection to the extent it calls for expert testimony. A This slide now shows the number of samples collected. Q (BY MR. SMYSER) And what is a sample? A A sample is a chunk of soil or of sediment or of water or it could be of crude oil. It's something that's removed from the environment and that is a sample that has been sent to the analytical 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 as many samples as the plaintiffs took? A Yep, between two and three times more, yes. Q Okay. Let's go to the next slide. Now, these next series of slides seem to deal with TPH. And would you remind us of what TPH stands for? A TPH stands for Total Petroleum Hydrocarbons, which is a measure of the total oil in the sample. Q And then you have some standards here. What are these standards about? A The first standard is the Ecuadorian standard of 1,000 milligrams of TPH per kilogram of soil. Q When you say the Ecuador standard, what do you mean by that? MR. SELEY: Objection. Calls for expert testimony. A When I put this presentation together, my understanding was that in Ecuador there is a standard

35 (Pages 134 to 137)

	138		140
1	Q (BY MR. SMYSER) Okay. And what did you	1	milligrams per kilogram of TPH.
2	find with respect to the United States standard?	2	Q With respect to the wells, the 81 wells
3	MR. SELEY: Objection. Calls for expert	3	sampled, what did the tests determine with respect to
4	testimony.	4	those two standards? The number of percentage of
5	A In the United States, oil contamination in	5	sites with TPH that exceeded the state standard, the
6	soil tends to be regulated at the state level, and	6	100 milligrams per kilogram?
7	those standards vary from state to state. There is	7	MR. SELEY: Objection. Calls for expert
8	no single universal approach or number.	8	testimony.
9	I say here in this slide, also, that in	9	A I don't think I characterized the 100
10	the earlier days of state regulations, those	10	milligram per kilogram as a state standard. From my
11	regulations tended to be expressed as TPH. So it	11	review of state standards in the past, on the TPH
12	would be a concentration of TPH in soil. But more	12	basis, numbers range quite a bit. It depends on the
13	recently, there's been a shift to regulate individual	13	state.
14	components, individual chemical components, of the	14	I do recall that 100 milligrams per
15	oil such as BTEX, as we discussed before, rather than	15	kilogram is fairly typical across states. Some
16	regulate on a TPH basis.	16	states had at the time TPH standards lower, some had
17	Q (BY MR. SMYSER) Of course, I'm interested	17	TPH standards higher. But it's a level of 100 is
18	in what the standard would have been during the time	18	certainly indicative of many state standards.
19	that Texaco operated the concession. And I assume,	19	And what this table shows is that of the
20	based on what you're telling us here, that that would	20	81 well sites sampled during the trial, every one of
21	have been measured in TPH rather than BTEX?	21	them had at least one soil sample with TPH above 100
22	MR. SELEY: Objection. Leading. Calls	22	milligrams per kilogram. And 98 percent, which is
23	for expert testimony.	23	either all but one or two of those, had TPH above a
24	Q (BY MR. SMYSER) Can you tell us whether	24	thousand milligrams per kilogram in the soil.
25	or not that's correct?	25	Q And that last number represents the upper
	139		141
1	A It's generally correct.	1	threshold for Ecuador?
2	MR. SELEY: Objection.	2	MR. SELEY: Objection. Leading. Calls
3	A It's generally correct. I didn't do a	3	for expert testimony.
4	state-by-state timeline analysis of the development	4	A My understanding at that time was that the
5	of their standards and when standards were in place	5	1,000 milligrams per kilogram of TPH soil is an
6	based on TPH, when they shifted to an individual	6	Ecuadorian standard, is the upper limit for, I think
7	chemical basis. It's possible that at that time some	7	the wording is sensitive ecosystems or sensitive
8	states were regulating individual chemicals, I don't	8	habitat so it doesn't apply to all soils across this
9	know, but certainly the majority of states, the	9	country but my understanding is it would apply to
10	majority of standards were TPH-based standards.	10	this area.
11	Q (BY MR. SMYSER) Okay. Let's go to the	11	Q (BY MR. SMYSER) Let's look at the next
12	next slide, please. And it looks like on this slide	12	group which are stations. How many stations were
13	you're examining the amount of Total Petroleum	13	sampled?
14		14	A 12 stations were sampled during the trial.
15	Hydrocarbons in the soil. Is that the purpose of		
1 - ·	this slide?	15	Q What did you find with respect to TPH
16	this slide? MR. SELEY: Objection. Leading.	16	contamination in the soil using those two previously
17	this slide? MR. SELEY: Objection. Leading. A Yes.	16 17	contamination in the soil using those two previously identified standards?
17 18	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of 	16 17 18	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert
17 18 19	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? 	16 17 18 19	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony.
17 18 19 20	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? A The purpose of this slide is to summarize 	16 17 18 19 20	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony. A That 92 percent of the sites of the
17 18 19 20 21	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? A The purpose of this slide is to summarize the TPH data in terms of what it says about soil 	16 17 18 19 20 21	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony. A That 92 percent of the sites of the stations had soils with TPH above 100 ppm, and the
17 18 19 20 21 22	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? A The purpose of this slide is to summarize the TPH data in terms of what it says about soil contamination with oil. And it's comparing the 	16 17 18 19 20 21 22	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony. A That 92 percent of the sites of the stations had soils with TPH above 100 ppm, and the same percent, which I believe would be all but one of
17 18 19 20 21 22 23	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? A The purpose of this slide is to summarize the TPH data in terms of what it says about soil contamination with oil. And it's comparing the contamination at wells and stations against the 	16 17 18 19 20 21 22 23	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony. A That 92 percent of the sites of the stations had soils with TPH above 100 ppm, and the same percent, which I believe would be all but one of them, had soils above a thousand milligrams per
17 18 19 20 21 22	 this slide? MR. SELEY: Objection. Leading. A Yes. Q (BY MR. SMYSER) What is the purpose of this slide? A The purpose of this slide is to summarize the TPH data in terms of what it says about soil contamination with oil. And it's comparing the 	16 17 18 19 20 21 22	contamination in the soil using those two previously identified standards? MR. SELEY: Objection. Calls for expert testimony. A That 92 percent of the sites of the stations had soils with TPH above 100 ppm, and the same percent, which I believe would be all but one of

Τ

36 (Pages 138 to 141)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	142		144
1	column there labeled total of the 93 samples. And	1	testimony.
2	what did you find with respect to the levels of	2	A These sites are ordered from lowest
3	contamination of TPH in soil in those two categories	3	concentration to highest. So they're not ordered by
4	previously identified?	4	region or by field. They're just ranked from low to
5	A What this table shows is that 99 percent	5	high. And the sites at the farthest right are the
6	of the sites sampled had TPH above 100 milligrams per	6	sites with the highest TPH concentration measured in
7	kilogram. And 97 percent, which is all but two of	7	soil.
8	them, had TPH above a thousand milligrams per	8	And I think you said the maximum there is
9	kilogram.	9	a hundred thousand. It's actually a million.
10	Q Let's go to the next slide and this slide	10	Q (BY MR. SMYSER) A million?
11	again is called TPH in soil. What is the purpose of	11	A Parts per million. Which would be, of
12	this slide in the graph contained on	12	course, pure crude oil. So there's the sites at the
13	MR SELEY: Objection. Calls for expert	13	farthest right, the highest concentrations measured
14	testimony.	14	at them were approaching a million parts per million
15	A The purpose of this slide was to show the	15	in soil.
16	TPH soil data in a different way. What this is now	16	Q As an environmental scientist and based on
17	showing is the highest concentration of TPH measured	17	your experience, work history, knowledge of the
18	at each one of the, what was it, 93 sites sampled	18	field, how would you characterize a concentration of
19	during the trial.	19	TPH in the soil above 10,000 parts per million?
20	The bars on this, the red bars, it's the	20	MR. SELEY: Objection. Calls for expert
21	highest concentration measured at each individual	21	testimony.
22 23	site. So each bar represents a site, a site that was	22	A It's a question that really can only be
23 24	sampled during the trial.	23 24	thought of in terms of what are we comparing it
24 25	And the purpose of this was to provide a	24	against. 10,000 milligrams per kilogram of TPH is
2.5	perspective on how high the TPH contamination is in	2.5	1 percent oil in soil. In this case, that's ten
	143		145
1	the soils that were sampled during the trial.	1	times higher than the Ecuadorian standard.
2	the soils that were sampled during the trial. Q So each bar represents what?	2	Beyond characterizing it as 10,000
2 3	Q So each bar represents what?A Each bar is the maximum TPH concentration	2 3	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm
2 3 4	Q So each bar represents what?A Each bar is the maximum TPH concentration sampled at one of the sites.	2 3 4	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some
2 3 4 5	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to 	2 3 4 5	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question.
2 3 4 5 6	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? 	2 3 4 5 6	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing
2 3 4 5 6 7	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 	2 3 4 5 6 7	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at
2 3 4 5 6 7 8	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. 	2 3 4 5 6 7 8	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in
2 3 4 5 6 7 8 9	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with 	2 3 4 5 6 7 8 9	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over
2 3 4 5 7 8 9 10	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were 	2 3 4 5 6 7 8 9 10	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something
2 3 4 5 6 7 8 9 10 11	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian 	2 3 4 5 6 7 8 9 10 11	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the
2 3 4 5 6 7 8 9 10 11 12	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? 	2 3 4 5 6 7 8 9 10 11 12	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property?
2 3 4 5 6 7 8 9 10 11 12 13	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert 	2 3 4 5 6 7 8 9 10 11	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11 12 13 14	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for
2 3 4 5 6 7 8 9 10 11 12 13	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the 	2 3 4 5 6 7 8 9 10 11 12 13	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater than a thousand milligrams per kilogram. Only two 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would highlight that as an indication that there is some
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater than a thousand milligrams per kilogram. Only two sites had soil with the highest concentration less 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would highlight that as an indication that there is some sort of petroleum contamination in the soil that they
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater than a thousand milligrams per kilogram. Only two sites had soil with the highest concentration less than a thousand. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would highlight that as an indication that there is some sort of petroleum contamination in the soil that they should pay attention to.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater than a thousand milligrams per kilogram. Only two sites had soil with the highest concentration less than a thousand. Q (BY MR. SMYSER) What is the significance 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would highlight that as an indication that there is some sort of petroleum contamination in the soil that they should pay attention to. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q So each bar represents what? A Each bar is the maximum TPH concentration sampled at one of the sites. Q Okay. And the dotted line next to Ecuadorian law? A That dotted line is at the level of 1,000 parts per million, or milligrams per kilogram of TPH. Q And what does the graph indicate with respect to the number of sites sampled that were below the upper threshold permitted under Ecuadorian law? MR. SELEY: Objection. Calls for expert testimony. A What this graph shows is similar to the slide we just looked at. It shows that all sites but two had samples collected from them with TPH greater than a thousand milligrams per kilogram. Only two sites had soil with the highest concentration less than a thousand. Q (BY MR. SMYSER) What is the significance of the last two on the right-hand side of the graph 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Beyond characterizing it as 10,000 milligrams per kilogram or 1 percent oil in soil, I'm not or in reference to a standard or some benchmark, I'm not sure how to answer that question. Q (BY MR. SMYSER) Okay. If you were doing an environmental study for someone who is looking at obtaining some property and they had contamination in the property of Total Petroleum Hydrocarbons over 10,000 parts per million, would that be something that you would feel important to disclose to the potential purchaser of the property? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. Calls for expert testimony. A That's not the kind of work I do, property evaluations. But if I were to do that, yes, I would highlight that as an indication that there is some sort of petroleum contamination in the soil that they should pay attention to. MR. SELEY: Move to strike. Q (BY MR. SMYSER) At the time you did this

37 (Pages 142 to 145)

	146		148
1	the rainforest by oil?	1	MR. SELEY: Objection. Calls for expert
2	MR. SELEY: Objection. Calls for expert	2	testimony. Calls for speculation. Lacks foundation.
3	testimony, and leading.	3	A When I put this table together, the point
4	A It depends on what you're comparing it to.	4	is that for these wells, which are typical of all of
5	If we're comparing it to the Ecuadorian standard of a	5	the wells that were sampled, samples collected by the
6	thousand, yes, absolutely. It's ten times higher	6	plaintiffs tend to show higher contamination and in
7	than that standard. Absent that, it's difficult to	7	this case, as percent of samples that exceed a
8	provide a generalization or a characterization	8	thousand, compared to Chevron samples. The Chevron
9	without comparing it to something. And	9	samples show less contamination. The plaintiffs'
10	Q (BY MR. SMYSER) Okay. What would you	10	samples show more contamination.
11	compare it to? I'm looking for guidance from you as	11	Q (BY MR. SMYSER) Let me ask you about two
12	a person who put this graph together to help me to	12	that stood out to me, which is Guanta 7 and Lago
13	put it into significance, apart from what the numbers	13	Agrio 2, where the table indicates 100 percent of the
14	just say, this is ten times greater than 1,000 and	14	plaintiffs' sample showed contamination in excess of
15	100 times greater than 100?	15	a thousand parts per million and zero of Chevron's
16	MR. SELEY: Objection. Vague. Calls for	16	samples showed a like contamination. Do you have any
17	expert testimony.	17	explanation for that?
18	A The key point of this graph is to compare	18	MR. SELEY: Objection. Calls for
19	it to the Ecuadorian standard. The Ecuadorian	19	speculation. Calls for expert testimony.
20	standard is it's established, my understanding, is	20	A I don't recall the data from those two
21	to help protect the environment. It's at a thousand.	21	well sites specifically. I do recall that I looked
22	And this graph shows that all but two of the sites	22	at this issue in general. I may have looked at the
23	sampled have oil in the soils well above that	23	data for these two sites as part of that. Typically,
24 25	standard. So with this slide, I was focused on	24 25	the reason for the differences between the
25	comparing it to the standard of a thousand.	25	plaintiffs' data and Chevron's data comes from two
	147		149
	±1,		119
1	Q Okay. Let's look at the next slide. And	1	sources. One is where they sampled.
1 2		1 2	
2 3	Q Okay. Let's look at the next slide. And	2 3	sources. One is where they sampled.
2 3 4	Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide?	2 3 4	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to
2 3 4 5	Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert	2 3 4 5	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right
2 3 4 5 6	Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony.	2 3 4 5 6	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits.
2 3 4 5 6 7	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, 	2 3 4 5 6 7	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too,
2 3 4 5 6 7 8	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show 	2 3 4 5 6 7 8	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron
2 3 4 5 6 7 8 9	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data 	2 3 4 5 6 7 8 9	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from
2 3 4 5 6 7 8 9 10	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the 	2 3 4 5 6 7 8 9 10	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to
2 3 4 5 6 7 8 9 10 11	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples 	2 3 4 5 6 7 8 9 10 11	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits.
2 3 4 5 6 7 8 9 10 11 12	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. 	2 3 4 5 6 7 8 9 10 11 12	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking
2 3 4 5 6 7 8 9 10 11 12 13	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any 	2 3 4 5 6 7 8 9 10 11 12 13	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what 	2 3 4 5 6 7 8 9 10 11 12 13 14	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the plaintiffs' experts and the data collected by 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method that is actually no longer allowed in the United
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the plaintiffs' experts and the data collected by the plaintiffs' experts as a comparison. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method that is actually no longer allowed in the United States. These analyses were done in Ecuador. But
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the plaintiffs' experts and the data collected by the plaintiffs' experts as a comparison. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method that is actually no longer allowed in the United
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the plaintiffs' experts and the data collected by the plaintiffs' experts as a comparison. Q (BY MR. SMYSER) And what does the data 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method that is actually no longer allowed in the United States. These analyses were done in Ecuador. But it's a method that extracts very effectively all of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q Okay. Let's look at the next slide. And this slide is entitled percentage samples greater than 1,000 parts per million TPH. What is the purpose of this slide? MR. SELEY: Objection. Calls for expert testimony. A The purpose of this slide, as I recall, was twofold. One is this is another way to show those same TPH data, only now it's showing the data on a site by site basis. We're actually naming the sites. And it's showing the percent of samples collected from a site that exceeded a thousand. So now the question isn't are there any samples that exceed a thousand at the site, but what percent of the samples at the site exceed a thousand. That's one purpose. The second purpose is to put side by side that aspect of the data, the percent of samples that exceed a thousand, for the data collected by the plaintiffs' experts and the data collected by the plaintiffs' experts as a comparison. Q (BY MR. SMYSER) And what does the data show with respect to the comparison between the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	sources. One is where they sampled. Chevron tended to collect samples that were away from pits or away from the areas where the wells operated. Whereas the plaintiffs tended to collect samples closer to the pits, sometimes right on the pits. Chevron collected samples from pits, too, but when you look at the pattern overall, the Chevron samples tend to be from areas that are farther from the pits, and plaintiffs' are from areas closer to the pits. Another reason, as I recall from looking at the data, is a difference in the analytical methods between the plaintiffs and Chevron. Q (BY MR. SMYSER) What were the differences? MR. SELEY: Objection. Calls for expert testimony. A The plaintiffs reported using a method that is actually no longer allowed in the United States. These analyses were done in Ecuador. But it's a method that extracts very effectively all of the oil in a soil sample and then analyzes it.

38 (Pages 146 to 149)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	150		152
1	different steps to extract different ranges of	1	myself. I don't think I knew what guestions they
2	petroleum in the soil. You can think of it as light	2	were posing specifically.
3	material in petroleum, medium and heavier components.	3	Q (BY MR. SMYSER) Okay. In the context of
4	The method that Chevron used quantified	4	these tests was it in your mind scientifically valid
5	the light petroleum components in the soil and the	5	for Chevron to exclude the testing for the heavier
6	medium weight components of petroleum in the soil,	6	petroleum products?
7	but did not measure the heavier components of oil in	7	MR. SELEY: Objection. Leading. Calls
8	the soil.	8	for expert testimony. Calls for speculation.
9	So the analytical method didn't capture	9	A I'm sorry, what was the phrase you used,
10	all of the oil contamination in the soil.	10	scientifically
11	Q (BY MR. SMYSER) Are you aware of whether	11	Q (BY MR. SMYSER) I would like to use a
12	there is an approved scientific basis for excluding	12	phrase that you would consider appropriate, not being
13	the heavy material from the analysis?	13	a scientist myself. I'm trying to determine if this
14	MR. SELEY: Objection. Calls for expert	14	was a valid way to approach the issue, which was the,
15	testimony. Calls for speculation.	15	I take it, the amount of contamination in the soil of
16	A I think that's probably too broad a way to	16	TPH?
17	think of it. It depends on what answer what	17	MR. SELEY: Same objections.
18	question you're trying to answer.	18	A To analyze the soil and compare it to the
19	Q (BY MR. SMYSER) Well, you indicated in	19	1,000 milligram per kilogram standard in Ecuador or
20	your testimony that the method Chevron used	20	any standard or guideline based on TPH, not measuring
21	quantified the light petroleum components in the soil	21	the heavy components of oil is incorrect, in my
22	but did not measure the heavier components of oil in	22	opinion.
23	the soil.	23	Q (BY MR. SMYSER) Okay.
24	And so my question is, given that answer,	24	MR. SELEY: Move to strike.
25	is there a scientific, acceptable scientific reason	25	Q (BY MR. SMYSER) Now, it appears based on
	151		153
1	for not including the heavier components of oil in	1	this table that there were a number of sites in which
2	the soil when performing an analysis for TPH?	2	Chevron tests, even excluding the heavier oil
3	MR. SELEY: Objection. Calls for expert	3	components, detected the presence of TPM (sic) in the
4	testimony. Calls for speculation.	4	soil I mean TPH in the soil, in excess of 1,000
5	A There can be. It depends on the question	5	parts per million.
6	you're trying to address with the sampling. For	6	Can you explain that?
7	example, the I mentioned that state regulation of	7	MR. SELEY: Objection. Calls for expert
8	TPH in soils has moved toward basing the standards on	8	testimony. Calls for speculation.
9	measures of individual chemicals.	9	A What that means is that in these samples
10	Those individual chemicals are in the	10	that Chevron collected and analyzed there is greater
11	light and the medium fractions portions of petroleum.	11	than a thousand ppms, or milligrams per kilogram of
12	So if that's what you're regulating on, there is less	12	TPH, that in just the light and medium fractions. So
13	or maybe no need to quantify what is in the heavier	13	those fractions alone, when you add them up, exceed a
14	fraction.	14	thousand ppm TPH.
15	On the other hand, if the question is how	15	Q (BY MR. SMYSER) And if they had also
16 17	much oil is there in the soil, then you should	16 17	tested for the heavier oil products in those samples,
18	measure what's in all three fractions.		would you have or would you not have expected the
18 19	Q (BY MR. SMYSER) In the testing that occurred in the judicial inspections, do you know	18 19	number of samples indicating the presence of 1,000 parts per million TPH in the soil to increase or
20	what the question was?	20	decrease?
20	MR. SELEY: Objection. Calls for	21	MR. SELEY: Objection. Calls for
22	speculation.	22	speculation. Calls for expert testimony.
23	A No, I don't think I do know the specific	23	A Increase. I can't be specific like how
		1	
24		24	many or at which site, but overall, when you do a
24 25	questions. I just thought of what questions these data would be best used for when I analyzed them	24 25	many or at which site, but overall, when you do a sampling program where you sample part of the

39 (Pages 150 to 153)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

1contamination versus all of it, you will see more1Q(BY MR. SMYSER) What are the2when you sample for all of it.2AWhat is also shown in that aeri3MR. SELEY: Move to strike.3photograph are the green dots, which at4Q(BY MR. SMYSER) And so in these cases4locations based on a global positioning5where the Chevron tests indicated more than at5of where the plaintiffs' experts collected	•
2when you sample for all of it.2AWhat is also shown in that aeri3MR. SELEY: Move to strike.3photograph are the green dots, which a4Q(BY MR. SMYSER) And so in these cases4locations based on a global positioning	5
3MR. SELEY: Move to strike.3photograph are the green dots, which a4Q(BY MR. SMYSER) And so in these cases4locations based on a global positioning	ial
- (- · · · · · · · · · · · · · · · · · ·	are the
5 where the Chevron tests indicated more than a 5 of where the plaintiffs' experts collector	system, GPS,
- whole the onework tests indicated more than a of whole the plainting experts collected	d samples,
6 thousand parts per million of TPH in the soil, that 6 soil samples at this site.	
7 would have exceeded what you understood to be the 7 And then the yellowish stars are	e, again,
8 threshold standard established by Ecuadorian law? 8 based on GPS coordinates, the location:	s where
9 MR. SELEY: Objection. Calls for 9 Chevron's experts collected soil samples	S.
10 speculation. Calls for expert testimony. 10 The data from those samples, s	pecifically
11AYes, that's correct.11the TPH data, are shown in these series	s of graphs on
12 Q (BY MR. SMYSER) All right. Let's go to 12 the right.	
13 the next slide, if we might. Now, I'm afraid I 13 Q (BY MR. SMYSER) Okay. Befo	ore you get to
14 looked at this slide and had a fair amount of 14 those, you have a legend underneath the second s	he photograph
15 difficulty figuring out what you were getting at 15 that tells us the directions, north, west,	east, and
16 here. 16 south. But it also has some feet and m	
17Could you explain this slide to us? What17that indicating the scale in the photographic	aph of how
18 is the purpose of the graphs on the side and the 18 far distances are in the photograph?	
19 arrows running to the picture labeled Shushufindi 19 A Yes, just for that aerial photogram	raph, not
20 well number 38? 20 the ones at the bottom.	
21 MR. SELEY: Objection. Calls for expert 21 Q Right.	
22 testimony. 22 A But, yes, for that upper one.	
23 A Yes, I will. And I admit this, there's a 23 Q Okay. So let's, if we could, let' 24 let using an uith this alide. This alide along a set of the set	-
 24 lot going on with this slide. This slide shows some 24 the graphs under TPH and samples coll 25 information for one of the wells. Shushufindi 25 trial. And let's look at the first graph. 	-
155	157
1well 38. This is a well that I have been to. I took1you tell us what that is indicating?	
2 the fixtures at the lower left of the pit, one of the 2 MR. SELEY: Objection. Calls for	expert
3 pits where you can still see oil. 3 testimony.	
4 This well was operated by Texaco and shut 4 A This first graph is depicting the	
5 down prior to Petroequador taking over operations in 5 data collected from the location shown b	, ,
6 the field. 6 circle that's connected to it with a black l	
7 Q (BY MR. SMYSER) Did you these 7 the way that this graph shows it is, in thi	
 8 pictures, are they true and accurate representations 9 of what you saw there when you were there? 9 axis up from left to right. 	going on the x
	t the
10AYes.10So the farther we are to the right11QOkay. Please continue.11higher the TPH concentration. And on the	
1100 <th< th=""><th></th></th<>	
12 A In the upper left portion is an order 13 aerial photograph I'm sorry, is it okay if you 13 collected. And you can see the scale on	•
14don't explode it. Okay. Thanks.14from zero, which would be right at the su	•
15 It's an aerial photograph with a date of 15 It's an aerial photograph with a date of	
16 1986. And this shows outlined in black and then in 16 So we're showing here the depth	
17 the triangle where the well pad and the actual well 17 sample as well as the TPH concentration	
18 is or actually, it still is there. 18 sample.	
19 And then outlined in these purple circles 19 Q (BY MR. SMYSER) Okay. And v	what was the
20 or ovals are the locations of the waste pits that 20 depth of the sample in the first graph?	
21 Texaco built when they were operating the well site. 21 A In that first one at the top, it loc	oks
22 So the idea here is to show the layout of 22 like the depth is at the surface and goes	down to
23 the oil pad, the oil well itself, and then in this 23 approximately half a meter, is what this	shows.
24 case, the three waste bits. 24 Q All right. And what did it indicat	te with
24 case, the three waste pits. 24 Q All right. And what did it indicate	that sample?

40 (Pages 154 to 157)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	158		160
1	A By eyeballing this, it looks like it was	1	A I don't remember what standard they used
2	just over 500 parts per million of TPH in that	2	as I think what you're asking is the trigger for
3	sample.	3	cleanup, whether or not to clean a site up. I don't
4	Q Okay. Let's go to the next graph.	4	remember what standard they used. I remember a
5	A And if I could just add	5	standard they used once they were doing the cleanup,
6	Q Sure.	6	whether they knew they were done or not. But I don't
7	A one more point is that what we're	7	recall the standard used as a trigger.
8	showing here on these graphs are all the samples for	8	Q (BY MR. SMYSER) Okay. Do you remember
9	which we had data. So we aren't selectively showing	9	whether, if I were to indicate to you that it was
10	some samples. What that means is at that green dot	10	5,000 parts per million of TPH, would that refresh
11	there was only one depth sampled, that top one, there	11	your recollection in any way?
12	weren't any other samples collected.	12	MR. SELEY: Objection. Leading.
13	Q Okay. Now, if you could, let's go to the	13	A That sounds reasonable. It might have
14	next graph. And I assume I'll let you tell us,	14	been 10,000. It was more than a thousand. The exact
15	though I assume, this is the same program in that	15	number, I can't remember.
16	it's samples from those green dots there?	16	Q (BY MR. SMYSER) Okay. Do you remember
17	A Yes. This is now showing the data for a	17	whether this Shushufindi well number 38 was a well
18	soil sample from a different green dot. This one	18	that Texaco remediated?
19	looks like it's close to or maybe on the edge of one	19	MR. SELEY: Objection. Misstates facts.
20	of the pits. The plot shows that it's from a depth	20	Calls for speculation.
21	of around a meter deep below the surface and that in	21	A I don't remember. I don't think so, but I
22	that sample, the concentration, it was somewhere	22	don't remember for sure.
23	it's a little bit hard to tell. What is happening	23	Q (BY MR. SMYSER) Okay. If the standard
24	here is that the concentration is so high that we had	24	for remediation was 10,000 parts per million of TPH,
25	to break the X axis and extend it. Otherwise you	25	would this sample indicate that this was a well that
	159		161
1	wouldn't be able to see the data. It looks like it's	1	fell within that trigger point?
2	somewhat less than 200,000 parts per million of TPH	2	MR. SELEY: Objection. Calls for
3	in this sample, but I can't tell. Maybe it's	3	speculation. Improper hypothetical.
4	150,000. It's in that ballpark.	4	A Yes. This sample is well above a standard
5	Q Okay.	5	of 10,000 or 5,000 or 1,000.
6	MR. SELEY: Move to strike as improper	6	Q (BY MR. SMYSER) Okay. Let's look at the
7	testimony.	7	next graph, if we would. And, again, I assume this
8	Q (BY MR. SMYSER) Now, let me ask you to	8	is another sample close to the last one you
9	clarify a couple other data points. There is a	9 10	discussed. And would you tell us about that?
10	horizontal or vertical line running up from 1,000	11	MR. SELEY: Objection. Calls for expert
12	that intersects the green line. What does that	12	testimony. A This shows the results from two samples
13	represent? MR. SELEY: Objection. Calls for expert	13	A This shows the results from two samples collected at the same location, where it's the green
14	testimony.	14	dot again connected by the black line of this graph.
15	A In this graph I put that line there to	15	One sample at this location was collected from the
16	represent the Ecuadorian standard of 1,000 milligrams	16	surface, it looks like down to a little less than a
17	per kilogram of TPH in soil.	17	meter. And then there was another sample collected
18	Q (BY MR. SMYSER) I'm going to sort of do a	18	from roughly one and a half meters down to two meters
19	brief aside with you. Do you remember what the	19	down below the surface.
20	standard was that Texaco chose to determine whether	20	Q (BY MR. SMYSER) And what did the sampling
21	or not wells needed to be remediated under its	21	show?
22	agreement with the Republic of Ecuador to remediate	22	MR. SELEY: Same objection.
23		23	A What this plat shows is that that tap
11	wells when they left the concession?	23	A What this plot shows is that that top
24	wells when they left the concession? MR. SELEY: Objection. Misstates facts.	24	sample had a TPH concentration of roughly 300,000

41 (Pages 158 to 161)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

1	162		164
1	roughly one and a half to two meters down had a	1	time about the propriety of the location chosen by
2	little over a thousand milligrams per kilogram TPH.	2	the Demandantes for selection of their samples?
3	Q (BY MR. SMYSER) And let's go to the next	3	MR. SELEY: Objection. Leading. Calls
4	graph. Actually, let's do the last three of these	4	for speculation. Calls for expert testimony.
5	graphs together, if you don't mind.	5	A Yes, part of the purpose of this
6	A Okay.	6	Q (BY MR. SMYSER) What was your opinion?
7	Q What do they show in sum?	7	MR. SELEY: Same objections.
8	A And do you mean the last these last	8	A Part of the purpose of showing the data
9	three or the last	9	this way is to amplify the point I previously made,
10	Q These last three, the next three in line	10	that there is differences between the data the
11	there.	11	plaintiffs' experts collected and the data Chevron's
12	A Thank you.	12	experts collected.
13	Q Those three.	13	The plaintiffs' data tend to show higher
14	A Yeah.	14	levels of contamination than Chevron's data. And
15	MR. SELEY: Same objection.	15	this is I intended this to be a clear way to show
16	THE DEPONENT: I'm sorry, would you just	16	why that is. The plaintiffs collected samples from
17	not yeah, it's easier. Thank you.	17	around or closer to the pits, whereas Chevron's
18	A So these show again three more samples	18	samples are located outside of the pits.
19	collected by the Demandante experts, or plaintiff	19	Q (BY MR. SMYSER) You, yourself, did not do
20	experts. These three are all from the larger pit at	20	any of the sampling collection; is that correct?
21	the site, that area of the pit which is the pit shown	21	A That's correct.
22	in the photo below. And these graphs show that the	22	Q Have you in the past in your work had
23	samples collected had over 400,000 milligrams per	23	occasion to either collect samples yourself or direct
24	kilogram TPH. The second one had approximately	24	people to collect samples to determine whether or not
25	200,000 milligrams per kilogram TPH. And then the	25	there's environmental contamination?
	163		165
1	third one had about 300,000 milligrams per kilogram	1	A Yes.
2	of TPH.	2	Q Okay. If you had been taking the samples,
3	Q (BY MR. SMYSER) And do those amounts of	3	directing someone to take the samples in Shushufindi
4	TPH in the soil exceed that recommended by Ecuador?	4	well number 38, would you have directed individuals
5	MR. SELEY: Objection. Calls for expert	5	to take samples in the locations where Chevron took
6	testimony. Calls for speculation. Misstates facts.	6	
7			the samples?
	A Yes.	7	MR. SELEY: Objection. Incomplete
8	Q (BY MR. SMYSER) Okay.	8	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for
9	Q (BY MR. SMYSER) Okay. A By a lot.	8 9	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony.
9 10	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. 	8 9 10	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're
9 10 11	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what 	8 9 10 11	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine
9 10 11 12	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? 	8 9 10 11 12	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the
9 10 11 12 13	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a 	8 9 10 11 12 13	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the
9 10 11 12	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's 	8 9 10 11 12	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the
9 10 11 12 13 14	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected 	8 9 10 11 12 13 14	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I
9 10 11 12 13 14 15	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different 	8 9 10 11 12 13 14 15	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits.
9 10 11 12 13 14 15 16	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected 	8 9 10 11 12 13 14 15 16	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I
9 10 11 12 13 14 15 16 17	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that 	8 9 10 11 12 13 14 15 16 17	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was
9 10 11 12 13 14 15 16 17 18	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that Chevron's experts collected soil samples from four 	8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was dumped. They're known to be areas where there's
9 10 11 12 13 14 15 16 17 18 19	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that Chevron's experts collected soil samples from four locations. And at all four locations, there were no 	8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was dumped. They're known to be areas where there's likely to be contamination. And I would definitely
9 10 11 12 13 14 15 16 17 18 19 20	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that Chevron's experts collected soil samples from four locations. And at all four locations, there were no TPH detections in any of the samples they collected. 	8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was dumped. They're known to be areas where there's likely to be contamination. And I would definitely sample from the areas of the pits and around the
9 10 11 12 13 14 15 16 17 18 19 20 21	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that Chevron's experts collected soil samples from four locations. And at all four locations, there were no TPH detections in any of the samples they collected. So we just showed this as one plot, even 	8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was dumped. They're known to be areas where there's likely to be contamination. And I would definitely sample from the areas of the pits and around the pits.
9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q (BY MR. SMYSER) Okay. A By a lot. MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the last graph, what is the last graph? A The last graph at the bottom, it's a little bit different than the others because it's depicting here the results for the samples collected by Chevron's experts, but it's doing it a different way. You can see in the aerial photograph that Chevron's experts collected soil samples from four locations. And at all four locations, there were no TPH detections in any of the samples they collected. So we just showed this as one plot, even though there are there's more than one sample, 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Incomplete hypothetical. Calls for speculation. Calls for expert testimony. A It again gets to what question we're trying to answer. In this case, if I can imagine having been one of the experts, if the purpose of the sampling is to understand or describe the contamination at this well site that's present at the time of the sampling because of past operations, I would definitely sample from the pits. Pits are known to be areas where waste was dumped. They're known to be areas where there's likely to be contamination. And I would definitely sample from the areas of the pits and around the pits. Q (BY MR. SMYSER) Would you have also

42 (Pages 162 to 165)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	166		168
1	contaminated, then, yes. I'm sorry, then the focus	1	collected by plaintiffs and collected by the Chevron
2	would be on the pits.	2	experts.
3	If the objective is to understand	3	Q (BY MR. SMYSER) And based on review of
4	contamination over a wider area, then, yes, I would	4	that data, did you form an opinion as to whether or
5	go collect samples over a wider area.	5	not Chevron used the same selective method of
6	Q Let's go to the next slide. Now, it looks	6	sampling that was used in sampling the soil?
7	like in this slide you change from oil to	7	MR. SELEY: Objection. Calls for expert
8	groundwater; is that correct?	8	testimony and leading.
9	A Yes, that's correct.	9	A I concluded that
10	Q Would you explain the table here for us,	10	Q (BY MR. SMYSER) Did you form an opinion?
11	please?	11	A I formed an opinion. I'm not sure if it's
12	MR. SELEY: Objection to the extent it	12	specific to the way you asked the question, though.
13	calls for expert testimony.	13	Q Okay. What opinion did you form?
14	A This table summarizes the data on TPH in	14	MR. SELEY: Objection. Calls for expert
15	groundwater. It separates out the data by data	15	testimony.
16	collected by the Demandante experts during the	16	A The opinion I formed is that similar to
17	judicial inspections, data collected by Chevron's	17	soil samples, one of the reasons why there's such a
18	experts during the judicial inspections and data	18	dramatic difference in the amount of contamination
19	collected by the court expert. And it shows the	19	shown between the Demandantes data and Chevron's data
20	number of groundwater samples collected by each of	20	is where the samples were collected. That in
21	those parties.	21	general, Chevron experts tended to collect
22	And of those samples, the percent that had	22	groundwater samples farther away from pits whereas
23	TPH measured in them greater than the Ecuadorian	23 24	the plaintiffs' experts collected them closer to the
24 25	standard of 0.325 milligrams per liter of TPH.	24	pits, at well sites.
25	Q (BY MR. SMYSER) And what did the table	2.5	MR. SELEY: Move to strike.
	167		
1	show with respect to the percentage of samples, the	1	Q (BY MR. SMYSER) Did you form an opinion
2	Ecuadorian standard, as sampled by the Demandantes or	2	as to whether or not the percentage of TPH in the
3	the Ecuadorian plaintiffs?	3	water in excess of the limit set by Ecuador presented
4 5	MR. SELEY: Objection. Calls for expert	4	an environmental hazard?
6	testimony. A What this table shows is that of the	6	MR. SELEY: Objection. Calls for expert testimony. Calls for speculation.
7	A What this table shows is that of the groundwater samples collected by the plaintiffs'	7	A No, I didn't. I didn't do any other
8	experts, 59 percent had TPH measured in them above	8	analysis other than comparing it to the Ecuadorian
9	the standard of 0.325 milligrams per liter.	9	standard.
10	Q (BY MR. SMYSER) And what does it indicate	10	Q (BY MR. SMYSER) Okay. Your next slide is
11	with respect to the samples collected by Chevron?	11	called Petroequador or Texaco?
12	MR. SELEY: Same objection. And the	12	What is the purpose of this slide?
13	document speaks for itself.	13	MR. SELEY: Objection to the extent it
14	A It shows that of the samples collected by	14	calls for expert testimony.
15	Chevron, 1 percent had TPH measured in them above	15	A The purpose of this slide is to provide
16	0.325.	16	some background on on the issue of what we can say
17	Q (BY MR. SMYSER) Did you see any data that	17	about contamination at well sites in production
18	would give you an indication of where these samples	18	stations now as coming from either Texaco's
19	were taken, similar to the data that you showed us in	19	operations prior to 1990 or since Petroequador took
20	the previous slide that indicated where the soil	20	over after 1990.
	samples were taken?	21	Q (BY MR. SMYSER) How many what
21		0.0	
22	MR. SELEY: Objection. Calls for	22	percentage of the sites that had been built by Texaco
22 23	MR. SELEY: Objection. Calls for speculation.	23	and by Petroequador, what percentage of them were
22	MR. SELEY: Objection. Calls for		

43 (Pages 166 to 169)

	170		172
1	Calls for speculation. Calls for expert testimony.	1	well sites built by Texaco. None of those were
2	A Could you rephrase the question, please?	2	initially drilled or developed by Petroequador.
3	Q (BY MR. SMYSER) Sure. What percentage of	3	So the conclusion is that at these sites,
4	the sites built by Texaco were operated by Texaco	4	since the majority of the contamination is going to
5	only?	5	happen at the initial drilling and development, not
6	MR. SELEY: Same objection.	6	during production, even at well sites that were taken
7	A The records show that of the sites built	7	over by Petroequador, much of the contamination would
8	and operated by Texaco, about 25 percent of them, as	8	have originated from the initial drilling and
9	indicated on this slide, were shut down prior to	9	development by Texaco.
10	Petroequador taking over. In other words, they	10	MR. SELEY: Move to strike.
11	were they stopped production. So production	11	Q (BY MR. SMYSER) Let me ask you, you
12	happened only during Texaco's time.	12	indicate next that there were several improvements
13	Q (BY MR. SMYSER) And what would that show	13	that Petroequador made over Texaco. What do you have
14	you with respect to whether or not any contamination	14	reference to when you say improvements over Texaco as
15	at those sites was solely caused by Texaco or	15	operator of the well, or what are you referencing?
16	contributed to by Petroequador?	16	MR. SELEY: Objection to the extent it
17	MR. SELEY: Objection. Calls for	17	calls for expert testimony.
18	speculation.	18	A Yes, this is referring to how the
19	A What it means is that once a well site is	19	operations were conducted by Petroequador compared to
20	shut down and no longer producing, the sources of	20	Texaco. And when Petroequador took over the field,
21	potential contamination at that well site have	21	the documents I've read show that they made several
22	been have been removed. So if we go now and look	22	kinds of improvements. One we mentioned previously
23	at a well site that was operated by Texaco only and	23	is that they reinjected all produced water deep
24	we find contamination, that tells us that that	24	underground as opposed to Texaco dumping it into the
25	contamination was generated during operations by	25	streams and rivers.
	171		173
1	Texaco since the site hadn't been operated by	1	Another difference, and this is documented
2	Petroequador.	2	in the Texaco audits, is that Petroequador, soon
3	Q (BY MR. SMYSER) You indicate that most	3	after taking over operations, initiated programs to
4	well site contamination occurs during drilling and	4	detect oil spills this would be primarily from
5	initial development, not ongoing production. Would	5	pipelines and respond to them and clean them up.
6	you explain that, please?	6	Petroequador also, they, themselves have
7	MR. SELEY: Objection. Calls for expert	7	continued to drill wells. They're not only operating
8	testimony. Lacks foundation.	8	some wells that Texaco drilled, but they're drilling
9	A My reading of how Texaco operated this oil	9	some of their own. And those wells are, again, not
10	field, once the wells were producing the	10	part of the 356. But in their drilling and
11	oil-water-gas mixture, that was sent in essentially a	11	development operations, I have seen that they're
12	closed system right to the processing stations.	12	using on-site tanks to handle the waste rather than
13	So once a well was operating, the	13 14	the open pits that Texaco used.
14 15	opportunities for contamination to happen at the well	15	MR. SELEY: Move to strike.
	site were reduced. There can still be contamination	16	Q (BY MR. SMYSER) Let's go to let's go
16 17	at the processing station, of course, but at the well	17	to the next slide. We're back to TPH in soil. What
18	site, once that well is in place and operating, it's essentially a closed system.	18	is the purpose of this slide with respect to Texaco only, and Texaco then Petroequador comparison?
10 19	Most of the contamination then at these	19	A The purpose of this slide was to summarize
20	wells is going to happen during the initial drilling	20	the TPH data on soil contamination broken out by two
21	and development of the well, to get it started in the	21	kinds of well sites. The well sites that were built
22	first place.	22	by Texaco, operated by Texaco, but shut down prior to
23	And this slide describes that. My	23	1990, versus contamination at well sites that were
24	understanding was that the 356 well sites upon which	24	built by Texaco, operated by Texaco and then
25	this, the case of the plaintiffs, was based were only	25	continued to be operated by Petroequador after 1990.
للسل			

VERITEXT REPORTING COMPANY www.veritext.com

516-608-2400

44 (Pages 170 to 173)

212-267-6868

	174		176
1	Q And what did the table indicate with	1	arguments that because of that cleanup that was
2	respect to the level of contamination at those two	2	conducted in the 1990s, their liability is reduced or
3	groups of sites?	3	eliminated.
4	MR. SELEY: Objection. Calls for expert	4	And that first bullet point there gets to
5	testimony.	5	just pointing out that there are legal issues related
6	A This table summarizes the soil	6	to the agreement between the Republic of Ecuador and
7	contamination in terms of the percent of the sites	7	Texaco about the release. I have heard the attorneys
8	that have TPH in the soil greater than either 100	8	for the plaintiffs talk about whether that release
9	milligrams per kilogram or a thousand milligrams per	9	applies to their clients or not.
10	kilogram.	10	I don't know about those issues. But when
11	And what this shows is that there is	11	I put this slide together, I just wanted to point out
12	essentially no difference in the percent of sites	12	that there are legal issues, totally separate from
13	that are contaminated using these measures of	13	the scientific issues about the cleanup.
14	contamination, whether the sites were operated by	14	Q (BY MR. SMYSER) Well, then, with respect
15	Texaco only, or operated by Texaco and then	15	to the scientific issues, do you address those
16	Petroequador.	16	somewhat in this slide?
17	Q (BY MR. SMYSER) And what is	17	MR. SELEY: Same objections.
18	MR. SELEY: Move to strike.	18	A Yes.
19	Q (BY MR. SMYSER) And what is the	19	Q (BY MR. SMYSER) Okay. What did you
20	significance of that finding in terms of the source	20	conclude with respect to those scientific issues as
21	of the contamination and how the contamination	21	to why the cleanup was ineffective?
22	occurred?	22	MR. SELEY: Same objections. Leading.
23	MR. SELEY: Objection. Calls for expert	23	A What this slide is showing, there's a
24	testimony. Calls for speculation. Lacks foundation.	24 25	bullet there that says reasons why the cleanup was
25	A I think I think what this table shows	25	ineffective. There are several different reasons.
	175		177
1	is that when the sampling was conducted during the	1	Q (BY MR. SMYSER) And what were those
2	trial, essentially every site operated by Texaco and	2	reasons?
3	then shut down prior to Petroequador taking over was	3	MR. SELEY: Same objections.
4	contaminated. Certainly, all were contaminated if	4	A One of the reasons is that it's not always
5	you look at a standard of a hundred. Almost all were	5	clear when people hear about Texaco's cleanup in the
6 7	contaminated based on a standard of a thousand	6 7	1990s, that when they did this cleanup they actually
8	milligrams per kilogram.	8	conducted activities at only about 16 percent of the
9	In other words, these sites were contaminated when Texaco left them, and you cannot	9	pits that they built and left, based on the total number of pits that Mr. Cabrera reports.
10	see any additional contamination from Petroequador	10	So 84 percent of the pits that they built
11	when you summarize the data in this way.	11	and left, nothing was done. And aside from what was
12	MR. SELEY: Move to strike.	12	done to clean up the contamination at the 16 percent,
13	Q (BY MR. SMYSER) Let's look at the next	13	the fact that 84 percent went untouched alone says
14	slide. As we discussed earlier, Texaco undertook to	14	that that cleanup was ineffective.
15	do a pit cleanup in the 1990s. Do you remember that?	15	Q (BY MR. SMYSER) Okay.
16	A Yes.	16	MR. SELEY: Move to strike.
17	Q What was the purpose of this slide in	17	Q (BY MR. SMYSER) We previously discussed,
18	connection with that evaluation of that pit cleanup?	18	or I tried to remember the trigger point for when
19	MR. SELEY: Objection to the extent it	19	Texaco decided to clean up a pit. Would you explain
20	calls for expert testimony or legal conclusions.	20	whether or not this next slide has any reference to
21	A This slide summarizes some points I wanted	21	that, or what is the purpose of that bullet point?
22	to make about that cleanup	22	MR. SELEY: Objection. Sorry. Objection
11	to make about that cleanup.		
23	Q What were those points?	23	to the extent it calls for expert testimony.
23 24 25	·	23 24 25	to the extent it calls for expert testimony. A This bullet point is speaking to once they were conducting a cleanup at a site, they were doing

45 (Pages 174 to 177)

	178		180
1	something, taking out oil, moving dirt. Once they	1	change the tape.
2	were doing it, how they knew when they were done.	2	THE DEPONENT: Is it okay if we take a
3	Again, I can't remember. This doesn't	3	short break?
4	refresh my memory if there was a different trigger to	4	MR. SMYSER: Sure, of course.
5	make the decision about a cleanup or not but once	5	THE DEPONENT: Okay.
6	something was happening at a site, this is how they	6	THE VIDEOGRAPHER: We're off the record at
7	knew whether they were done or not.	7	2:21.
8	Q (BY MR. SMYSER) Okay. And how did they	8	(Recess taken from 2:21 p.m. to
9	know whether they were done or not? What was the	9	2:32 p.m.)
10	test or the standard by which they measured	10	THE VIDEOGRAPHER: Back on the record,
11	whether they concluded that they were done with	11	starting disk five at 2:32.
12	the cleanup?	12	MR. SELEY: Before you move on to your
13	MR. SELEY: Objection. Calls for expert	13	next question, I would like to put on the record
14	testimony. Foundation.	14	something we discussed at the break. And I'm
15	A There were two standards. Initially,	15	we've been going about four hours on this slide
16	there was a single standard of TPH concentrations in	16	presentation. And I don't see any relevance to this
17	what is called the TCLP test, or Toxicity	17	testimony at all to count 9.
18	Characteristic Leaching Procedure test of less than a	18	I'm going to object to all this testimony
19	thousand milligrams per liter.	19	as irrelevant to count 9. And I don't see why we're
20	Then, from the documents I have read,	20	spending so much time going through this. But that's
21	after the cleanup had been conducted for a while, a	21	my objection and I want to object to all the
22	second standard was added of 5,000 ppm or milligrams	22	testimony that is provided on this slide
23	per kilogram of TPH in soil.	23	presentation, with the exception of the personal
24	Q (BY MR. SMYSER) If we look back at the	24	observations that Mr. Beltman testified about.
25	graph we looked at previously, and using that	25	Q (BY MR. SMYSER) When we took our break,
	179		181
1	standard of 5,000 ppm TPH by which Texaco measured	1	we were looking at this slide that had the graph on
2	whether or not it cleaned up its pits, can you	2	it. This is a slide, if you recall, we had the
3	indicate roughly, maybe you can even draw on the	3	logarithmic issue with. Do you know whether or not
4	graph, roughly where that 5,000 mark would be and	4	the bar graphs here, each one of which represents an
5	what the number of wells would exceed that cleanup	5	individual sample site, whether those sample sites
6	standard?	6	were wells that were operated by Texaco, by
7	MR. SELEY: Objection. This is completely	7	Petroecuador, or by both?
8	improper testimony. There is no foundation that	8	MR. SELEY: Objection to the extent it
9	those standards apply to any of these samples taken,	9	calls for expert testimony.
10	to any of the nite that are represented on this graph	10	A This graph is showing data from all the
	to any of the pits that are represented on this graph	1 1 1	.
11	at all.	11	sites sampled during judicial inspections and
12	at all. And there is no indication that these are	12	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites
12 13	at all. And there is no indication that these are composite samples as appropriate under the standards	12 13	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then
12 13 14	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented.	12 13 14	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador.
12 13 14 15	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question.	12 13 14 15	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it
12 13 14 15 16	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer.	12 13 14 15 16	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites
12 13 14 15 16 17	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where	12 13 14 15 16 17	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming
12 13 14 15 16	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic	12 13 14 15 16 17 18	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per
12 13 14 15 16 17 18	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the	12 13 14 15 16 17	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil?
12 13 14 15 16 17 18 19	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the thousand here and the 10,000 here, but where exactly	12 13 14 15 16 17 18 19	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil? MR. SELEY: Objection.
12 13 14 15 16 17 18 19 20	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the thousand here and the 10,000 here, but where exactly it falls, I don't think I can draw on that. I can't	12 13 14 15 16 17 18 19 20	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil? MR. SELEY: Objection. Q (BY MR. SMYSER) of TPH in the soil?
12 13 14 15 16 17 18 19 20 21	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the thousand here and the 10,000 here, but where exactly	12 13 14 15 16 17 18 19 20 21	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil? MR. SELEY: Objection. Q (BY MR. SMYSER) of TPH in the soil? MR. SELEY: Sorry. Objection calls for
12 13 14 15 16 17 18 19 20 21 22	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the thousand here and the 10,000 here, but where exactly it falls, I don't think I can draw on that. I can't eyeball logarithmic scales very well.	12 13 14 15 16 17 18 19 20 21 22	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil? MR. SELEY: Objection. Q (BY MR. SMYSER) of TPH in the soil?
12 13 14 15 16 17 18 19 20 21 22 23	at all. And there is no indication that these are composite samples as appropriate under the standards of the remedial action plan that Texaco implemented. So this is a this is an improper question. Q (BY MR. SMYSER) You can answer. A I don't think I can show on there where the 5,000 level is because this is a logarithmic scale. And I can't it's somewhere between the thousand here and the 10,000 here, but where exactly it falls, I don't think I can draw on that. I can't eyeball logarithmic scales very well. Q Fair enough, I can't either.	12 13 14 15 16 17 18 19 20 21 22 23	sites sampled during judicial inspections and Mr. Cabrera's sampling and it's a mix, both sites operated by Texaco only and Texaco, then Petroecuador. Q (BY MR. SMYSER) Okay. And does it indicate that an overwhelming majority of the sites sampled well, tell me, does an overwhelming majority of the sites sampled exceed 10,000 parts per million in the soil? MR. SELEY: Objection. Q (BY MR. SMYSER) of TPH in the soil? MR. SELEY: Sorry. Objection calls for expert testimony. Calls for speculation. Lacks

46 (Pages 178 to 181)

	182		184
1	have TPH above 10,000 parts per milligram. I would	1	comparison show?
2	call that an overwhelming majority.	2	MR. SELEY: Objection. Calls for expert
3	MR. SELEY: Move to strike.	3	testimony. Calls for speculation. Lacks foundation.
4	Q (BY MR. SMYSER) Okay. Let's move back to	4	A This table is summarizing the TPH
5	the slide that we were on before.	5	contamination at the sites as a percent of the sites
6	A Okay.	6	that have TPH greater than either 100 milligrams per
7	Q The last point you have on the slide is	7	kilogram or a thousand milligrams per kilogram. And
8	poor confirmatory sampling. Can you explain that for	8	there's essentially no difference of whether a site
9	us, please?	9	was remediated by Texaco or not when you compare the
10	MR. SELEY: Objection. Calls for expert	10	data against those two numbers.
11	testimony.	11	MR. SELEY: Move to strike.
12	A The point I was trying to make here is	12	Q (BY MR. SMYSER) What does that indicate
13	that, again, just at the pits where Texaco did	13	to you about the efficacy of the remediation by
14	something, the 16 percent of the total. Although,	14	Texaco with respect to the elimination of TPH in
15	when they did this sampling at the time of cleanup,	15	soil?
16	they got results that allowed them to declare that	16	MR. SELEY: Objection. Calls for expert
17	they were finished and clean, we know from looking at	17	testimony. Leading. Calls for speculation. Lacks
18	samples collected during the judicial inspection that	18	foundation.
19	at some of these sites they essentially missed	19	A That tells me that the Texpet remediation
20	contamination when they sampled.	20	or Texaco remediation done in the mid-1990s did not
21	When they did their confirmatory sampling,	21	remove TPH from those sites. There is still TPH
22	we can see in the judicial inspection data that some	22	present in the soil.
23	of these sites still have high concentrations of TPH.	23	MR. SELEY: Move to strike.
24	MR. SELEY: Move to strike.	24	Q (BY MR. SMYSER) Was that your opinion at
25	Q (BY MR. SMYSER) And it's your	25	the time?
	183		185
1	understanding that the judicial inspections, that the	1	A Yes.
2	data from the judicial inspections, was part of the	2	MR. SELEY: Same objections.
3	record of the case?	3	Q (BY MR. SMYSER) Now, let's look at the
4	A Yes.	4	
		4	next slide. What is the title of this slide?
5	Q Let's go to the next slide, please. This	5	next slide. What is the title of this slide? A The title is table 1, Texpet cleanup pits
5 6	Q Let's go to the next slide, please. This is called TPH in soil, which is a reprise of another		
	5	5	A The title is table 1, Texpet cleanup pits
6	is called TPH in soil, which is a reprise of another	5 6	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm.
6 7	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion	5 6 7 8 9	A The title is table 1, Texpet cleanup pitswith TPH concentrations greater than 5,000 ppm.Q What does that mean?
6 7 8 9 10	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it	5 6 7 8 9 10	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were
6 7 8 9 10 11	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for	5 6 7 8 9 10 11	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused
6 7 8 9 10 11 12	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself.	5 6 7 8 9 10 11 12	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where
6 7 8 9 10 11 12 13	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together	5 6 7 8 9 10 11 12 13	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity.
6 7 8 9 10 11 12 13 14	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a 	5 6 7 8 9 10 11 12 13 14	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that
6 7 8 9 10 11 12 13 14 15	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil 	5 6 7 8 9 10 11 12 13 14 15	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct.
6 7 8 9 10 11 12 13 14 15 16	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by 	5 6 7 8 9 10 11 12 13 14 15 16	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet
6 7 8 9 10 11 12 13 14 15 16 17	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where 	5 6 7 8 9 10 11 12 13 14 15 16 17	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring
6 7 8 9 10 11 12 13 14 15 16 17 18	is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus	5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was conducted by Texaco in the 1990s. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as being within the scope of Texaco's cleanup. Some of
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was conducted by Texaco in the 1990s. The question here is, by summarizing the 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as being within the scope of Texaco's cleanup. Some of those pits they did do cleanup activities, some they
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was conducted by Texaco in the 1990s. The question here is, by summarizing the data this way, do we see any difference? Do we see 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as being within the scope of Texaco's cleanup. Some of those pits they did do cleanup activities, some they did not. But they were all within what was called
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was conducted by Texaco in the 1990s. The question here is, by summarizing the data this way, do we see any difference? Do we see sites that were remediated as cleaner or not compared 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as being within the scope of Texaco's cleanup. Some of those pits they did do cleanup activities, some they did not. But they were all within what was called the scope of the cleanup.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 is called TPH in soil, which is a reprise of another title on an earlier slide, but I have a suspicion that you have a separate intent with this slide. What is the intent behind this slide? MR. SELEY: Objection to the extent it calls for expert testimony. The document speaks for itself. A My intent when I put this slide together was to summarize the TPH in soil data in now a slightly different way, to evaluate the TPH in soil data, based on whether sites were remediated by Texaco, that is the 16 percent at those sites where something happened at 16 percent of the pits, versus sites that were not where no remediation was conducted by Texaco in the 1990s. The question here is, by summarizing the data this way, do we see any difference? Do we see 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A The title is table 1, Texpet cleanup pits with TPH concentrations greater than 5,000 ppm. Q What does that mean? MR. SELEY: Objection. Lacks foundation. A What that means, when I put this table together, I was showing data from pits that were sampled during the trial at some point and focused only on those 16 percent of the total pits where Texaco did some sort of remediation activity. So we're now no, I'm sorry, I take that back. That's not correct. Okay. Okay. I'm sorry. So the Texpet cleanup pits phrase at the top, what that's referring to is that every pit in this table listed was a pit that was identified in the remedial action plan as being within the scope of Texaco's cleanup. Some of those pits they did do cleanup activities, some they did not. But they were all within what was called

47 (Pages 182 to 185)

	186		188
1	MR. SELEY: I'm sorry. I didn't hear	1	Q Yes, I asked about the remedial action
2	that?	2	plan, that's correct.
3	Q (BY MR. SMYSER) Whose remedial action	3	A Okay. I don't think I don't think of
4	plan are we referring to? In your previous answer	4	this as the remedial action plan. This is a report.
5	you said it was a pit that was identified in a	5	But I don't know if the data that we talked about as
6	remedial action plan as being within the scope of	6	to whether or not a site was within the scope of the
7	Texaco's cleanup. So I'm just curious as to whose	7	plan is also contained in this report. It may be.
8	remedial action plan you're referring to?	8	They may have a table in here about what sites were
9	A What I recall is that this came from the	9	in the scope and what were not.
10	Woodward-Clyde report, a Texaco-Chevron contractor.	10	Q Okay. What role, if anything if any,
11	MR. SMYSER: Okay. Do you have the	11	did the Woodward-Clyde report play in your
12	Woodward-Clyde report.	12	preparation of the slide we were discussing regarding
13	(Exhibit 2 marked.)	13	Texpet cleanup of the TPH concentrations greater than
14	Q (BY MR. SMYSER) Let me hand you what has	14	5,000 parts per million?
15	been marked as Exhibit 2 and ask if you can identify	15	A I don't recall. I don't recall what, if
16	that for us.	16	anything, in that table came from this report.
17	MR. GREEN: You don't have an extra copy,	17	Q Okay. This Exhibit 2 has a fair amount of
18	for me, Counsel, do you?	18	handwriting on it in various places through this. Do
19	MR. SMYSER: I don't right now. I'm	19	you know whose handwriting that is, by any chance?
20	sorry.	20	A I see handwriting on the back side of the
21	MR. GREEN: Is there something else I can	21	cover page on that letter. I don't recognize that
22	use?	22	handwriting. I see handwriting on page BII, and that
23	MR. SMYSER: Here, you can use this one.	23	looks to me like Ann Maest's handwriting.
24	MR. GREEN: No, no I mean, I certainly	24	Q Who is Ann Maest?
25	don't want to carry it home.	25	A She is a managing scientist at Stratus
	187		100
	187		189
1	A This is a report by Woodward-Clyde that	1	L89 Consulting who worked on this project with me.
1 2	-	1 2	
	A This is a report by Woodward-Clyde that		Consulting who worked on this project with me.
2	A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted,	2	Consulting who worked on this project with me. Q Okay.
2 3	A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup.	2 3 4 5	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the
2 3 4 5 6	A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide	2 3 4 5 6	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that
2 3 4 5 6 7	A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing?	2 3 4 5 6 7	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay.
2 3 4 5 6 7 8	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. 	2 3 4 5 6 7 8	 Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire
2 3 4 5 6 7 8 9	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? 	2 3 4 5 6 7 8 9	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting
2 3 4 5 6 7 8 9 10	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. 	2 3 4 5 6 7 8 9 10	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what
2 3 4 5 7 8 9 10 11	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I 	2 3 4 5 6 7 8 9 10 11	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you?
2 3 4 5 7 8 9 10 11 12	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data 	2 3 4 5 6 7 8 9 10 11 12	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague.
2 3 4 5 6 7 8 9 10 11 12 13	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work 	2 3 4 5 6 7 8 9 10 11 12 13	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to
2 3 4 5 6 7 8 9 10 11 12 13 14	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? 	2 3 4 5 6 7 8 9 10 11 12 13 14	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you referenced that the Woodward-Clyde report was part of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude after reading this report about the efficacy and the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you referenced that the Woodward-Clyde report was part of what comprised the data on that slide, is it this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude after reading this report about the efficacy and the completeness of the cleanup done by Texaco?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you referenced that the Woodward-Clyde report was part of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude after reading this report about the efficacy and the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you referenced that the Woodward-Clyde report was part of what comprised the data on that slide, is it this report that you were referring to? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude after reading this report about the efficacy and the completeness of the cleanup done by Texaco? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A This is a report by Woodward-Clyde that they prepared after the Texaco cleanup was conducted, and it's a report about that cleanup. Q (BY MR. SMYSER) Did you review that report in connection with your work on the Lago Agrio litigation and your work in preparing your slide presentation that we've been discussing? A Yes, I did review this report. Q Did you rely on it? MR. SELEY: Objection. Vague. A I Q (BY MR. SMYSER) Did you rely on the data contained within it in the course of doing your work in the Lago Agrio litigation? MR. SELEY: Same objection. A Yes, I did rely on these. I did look at these data, I did rely on these data. Q (BY MR. SMYSER) And when we were talking earlier, a second ago, about the slide and you referenced that the Woodward-Clyde report was part of what comprised the data on that slide, is it this report that you were referring to? A I don't know. I don't remember. I 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Consulting who worked on this project with me. Q Okay. A On the next page, the first page of the executive summary, I don't recognize that handwriting. Page ES 2, I don't recognize that. Q Okay. Well, I'll stop you there. A Okay. Q I don't want to go through the entire document page by page to determine whose handwriting is there, but I appreciate that. Of what significance was the Woodward-Clyde report to you? MR. SELEY: Objection. Vague. A This report is what I relied on to understand what Texaco did in their cleanup, in terms of both the activities of the cleanup and the data that they collected, all after the cleanup. So this is essentially a report post cleanup about what they did and what they measured. Q (BY MR. SMYSER) And what did you conclude after reading this report about the efficacy and the completeness of the cleanup done by Texaco? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation

48 (Pages 186 to 189)

	190		192
1	made any conclusions based on this document alone.	1	designation for each pit, whether no further action
2	Q (BY MR. SMYSER) Fair enough. Let's go	2	was required, in which case they were essentially
3	back to the slide, if we might. And you were in the	3	done and didn't need to touch the pit, or whether if
4	process of explaining to us what this slide showed.	4	it's no in this column, that means that something was
5	And I think the logic behind the selection of the	5	done at that pit to conduct a cleanup. And this was
6	field names, the wells as listed here, could you do	6	a designation assigned by Texaco as they proceeded
7	that for us?	7	with the cleanup process.
8	MR. SELEY: Objection. Calls for	8	MR. SELEY: Move to strike.
9	speculation. Vague. Calls for expert testimony, I	9	Q (BY MR. SMYSER) And what does the
10	think.	10	remediation complete column indicate?
11	A Sure. Maybe it would help to just go	11	MR. SELEY: Same objections.
12	column by column.	12	A That's a term that, again, comes from the
13	Q (BY MR. SMYSER) Sure.	13	cleanup documents. And it's indicating that where
14	MR. SELEY: Same objection.	14	it's a yes, remediation complete, that means that
15	A What we're showing here are on the	15	it's a site where no further action was not required
16	farthest left, are the names of the fields, the	16	or to reverse the double negative, further action was
17	different oil fields within the concession. And then	17	required and that they did complete that further
18	next is the well name and number. So it's what field	18	action, that remediation, yes.
19	that well is located in and then the specific number	19	Where it's no under that column, what that
20	for that well within the field.	20	means is that every one of those is a site where no
21	Then pit number, at each well site pits	21	further action was completed, so there was no I'm
22	were numbered starting with pit number 1. I don't	22	sorry, no further action was required, so there was
23	know, I can't recall whose pit numbering this refers	23 24	no remediation completed at that pit.
24 25	to. It probably refers to the pit numbering assigned	24	Q (BY MR. SMYSER) Let me ask you, my copy
25	to the pits by Woodward-Clyde, since this is getting	2.5	of this document does not indicate the legend for
	191		193
1	back to the remediation. But I do recall that	1	footnote A, B and C under those three columns of
2	different parties assigned different numbering	2	in the remedial action plan, no further action and
3	systems. But this is probably Woodward-Clyde's	3	remediation complete. I don't know whether your
4	numbering system.	4	column does or whether you have a memory as to what
5	In RAP refers again to the remedial action	5	those refer to. Could you help me with that?
6 7	plan. We can see there is yes all the way down here.	7	A My copy does not have that at the bottom.
8	That means every one of the pits that's listed here was within the scope of the cleanup, was identified	8	I think when I prepared this slide, I copied this table from another document that I had prepared, and
9	in the cleanup contract as being a site where Texaco	9	I don't recall what those footnotes
10	had cleanup responsibility.	10	Q Okay.
11	Q (BY MR. SMYSER) What does the no further	11	A refer to.
12	action column mean?	12	Q And what about the next column? It says
13	A The no further action	13	maximum TPH (ppm).
14	MR. SELEY: Objection to the extent it	14	MR. SELEY: Same objections.
15	calls for expert testimony. Speculation. Lacks	15	A That column lists TPH concentrations in
16	foundation.	16	ppm for each of the pits. By maximum, that would
17	Q (BY MR. SMYSER) I don't want you to	17	mean the highest TPH concentration measured at that
18	speculate what the column no further action, what	18	pit.
19	purpose it served on your slide, okay. Go ahead.	19	Q (BY MR. SMYSER) Okay. And then we have a
20	MR. SELEY: Same objections. Lacks	20	column called source for maximum TPH. And what is
21	foundation.	21	the purpose of the data listed under that column?
22	A The no further action is a designation	22	MR. SELEY: Same objections.
23	assigned to pits in one of the documents describing	23	A This column is identifying whether the
24	the cleanup. It could have been the remedial action	24	maximum TPH value just to the left comes from
25	plan, although I don't recall. But there was a	25	either in this case Examen Percial is the court

49 (Pages 190 to 193)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

516-608-2400

10operated only by Texaco, in which case it says just10that seem to deal with cancer deaths.11Texaco, or whether the well was operated by Texaco11If you would start with the cancer death12and then taken over by Petroecuador, in which case it12slides, what is the purpose of that slide?13says Texaco-Petroecuador.13MR. SELEY: Objection. Calls for expert14Q(BY MR. SMYSER) Okay. I would like to14testimony.15look at three examples from this table that show the15AThis one?16source for maximum TPH as being from Texaco and the16Q(BY MR. SMYSER) Yeah.17well operated by Texaco. I think you'll see there17AThis slide is describing the calculation18are three of those.19AYes, I see them.19excess cancer deaths that is reported in the Cabrera20QOkay. And I think they cover Sacha 57,21Sacha 94, pit 1, and Sacha 94, pit 2; is that21QI believe the second bullet point22correct?23AThat's what I see, too.23MR. SELEY: Objection. Leading.24QAnd what do those three examples show with25second bullet point.25respect to whether or not the maximum TPH exceeds the25second bullet point.		194		196
2 Texado, which is actually Chewron's experts in the 3 judical inspections, or Demandantes, which means sampling by the plaintfit's coparts in the judical inspections. 2 MR. SELEY: Objection. Calls for 3 speculation. 5 inspections. A A for as I know, yes. 6 Q (BY MR. SMYSER) Okay. And the well operated only by Texaco. In which case it says just and then taken over by Preveouador. 5 Q (BY MR. SMYSER) Now, the mext series of skip over those because of what I toid you earlier. 11 Texaco, or whether the well was and then taken over by Preveouador. 8 The judge said he didn't use the Cahrera report in bis sentencia. And there are three sides at the end that seem to deal with cancer deaths. 12 reaco, or whether the well was and then taken over by Preveouador. 11 If you would start with the cancer death that is the purpose of that sidde? 13 says Texaco. Petroecuador. 14 testimony. 14 Q (BY MR. SMYSER) Okay. I would like to are three of those. 16 Q (BY MR. SMYSER) Yeah. 14 testimony. 18 of the dollar value associated with what are called are three of those. 15 A That's what I see, too. 18 A Yeah, I don't understand exactly that sace ormer? 2 M. SELEY: Objection. Calls for expert than S/000 parts per million limit set by Texaco itsel? 19	1	expert work of Mr. Cabrera, whether it comes from	1	A As far as I know.
3 judical inspections, or Demandantes, which means inspections. 3 speculation. 4 A S far as I know, yes. 5 0 (BY MR, SMYSER) Okay. And the well 6 0 (BY MR, SMYSER) Naw, And the well 7 operated by colum, the last column? 8 MR. SELEY: Same objections. 9 A That indicates whether the well was operated by Texaco. 10 operated only by Texaco. 11 Texaco, or whether the well was operated by Texaco. 12 and then taken over by Petroecuador, in which case it asy just 13 says Texaco-Petroecuador. 14 0 (BY MR, SMYSER) Okay. I would like to 15 loak at three examples from this table that show the 16 source for maximum TPH as being from Texaco and the 16 source for maximum TPH as being from Texaco and the 17 well operated by 12 exaco. 18 are three or those. 19 A Yes, I see them. 20 Okay. And I think they cover Scha 57, 21 Chay. And that what 1 see, too. 24 A Yesh, I and Tak Scha 24, pil 2 :s that 25 A	2	•	2	MR. SELEY: Objection. Calls for
5 inspections. 5 Q (BY MR, SMYSER) Nay, And the well 6 Q (BY MR, SMYSER) Nay, And the well 5 sildes involves the Cabrera report. I'm going to 7 MR, SELEY: Same objections. 7 skip even those because of what 1 told you earlier. 8 MR, SELEY: Same objections. 7 the judge said he didn't use the Cabrera report. I'm going to 9 A That indicates whether the well was operated by Texaco. I which case it says factor maximum TPH as being from Texaco and the 10 that sace. Petroecuador. 14 Q (BY MR, SMYSER) CKay. I would like to 13 MR, SELEY: Objection. Calls for expert 15 look at three examples from this table that show the 16 Q (BY MR, SMYSER) Yeah. 17 well operated by Texaco. I think you'll see there 18 are three of those. 16 Q (BY MR, SMYSER) Yeah. 18 are three of those. 10 eccess cancer deaths that is reported in the Cabrera 20 Okay. And I think they cover Sacha 57. 20 report. 21 Q (BY MR, SMYSER) Nay. 23 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 23 MR SELEY: Objection. Leading. 23	3	judicial inspections, or Demandantes, which means	3	
6 Q (BY MR. SMYSER) Okay. And the well 6 sildes involves the Cabrera report. If migging to 7 oparated by column, the last column? 8 MR. SELEY: Same objections. 9 9 A That indicates whether the well was 9 his sentencia. And there are three sildes at the end that seem to deal with cancer deaths. 12 and then taken over by Petroecuador, in which case it asys just 10 11 If you would start with the cancer death 13 says Texaco-Petroecuador. If you would start with the cancer death 12 sildes, what is the purpose of that side? 14 O (BY MR. SMYSER) Okay. I would like to 15 ito source for maximum TPH as being from Texaco and the 16 Q (BY MR. SMYSER) Yeah. 17 A This side is describing the calculation 18 are three of those. 19 A Yeat, set them. 19 excess cancer deaths that is reported in the Cabrera 20 O Kay. And I think they cover Sachs 57, 13 Sacha 94, pit 1, and Sacha 94, pit 2; is that 21 Q I believe the second builet point 15 report. 19 M SELEY: Objection. Calls for expert 12 A That's what I see, too. 19 12 10 I bel	4		4	•
 operated by column, the last column? MR. SELEY: Same objections. A That indicates whether the well was operated only by Texaco, in which case it says just Texaco, or whether the well was operated by Texaco and then taken over by Petroecuador. and then taken over by Petroecuador, in which case it says Texaco-Petroecuador. C (BY MR. SMYSER) Okay. I would like to look at three examples from this table that show the source for maximum TPH as being from Texaco and the are three of those. a charb mether the your Sacha 57, Sacha 94, pit 1, and Sacha 94, pit 2: is that correct? A That's what I see, too. Q Okay. And I think tyo core Sacha 57, Sacha 94, pit 1, and Sacha 94, pit 2: is that correct? A That's what I see, too. Q A dwhat do those three examples show with f sooro parts per million limit set by Texaco itself? A mailmony. Calls for sepurit. Sooro parts per million limit set by Texaco itself? A mailmony. Calls for sepurit. Sooro parts per million limit set by Texaco itself? A mailmony. Calls for sepurit. Sooro parts per million limit set by Texaco itself? A mailmony. TPH an asimple is greater than 5.000 parts per million. Sooro parts per million. MR. SELEY: Objection. Calls for expert. MR. SELEY: Objection. Same objections. A Well, to - to be clear, I think the although it says Texaco. Chevron sexperts objections. A Well, to - to be clear, I think the although it says Texaco. Chevron sever Shorts with MR. SELEY: Objection. Same objections. MR. SELEY: Same obje	5		5	5
 MR. SELEY: Same objections. A That indicates whether the well was operated only by Texaco, in which case it says just Texaco, or whether the well was operated by Texaco. and then taken over by Petroecuador. Q (BY MR. SMYSER) Okay. I would like to took at three examples from this table that show the source for maximum TPH as being from Texaco and the are three of those. Q Okay. And I think they cover Sacha 57, Sacha 94, pit 1, and Sacha 94, pit 2; is that C correct? A That's what 1 see, too. C O Add what do those three examples show with f source for maximum TPH exceeds the f source for these examples that you're f highlighting, the maximum TPH in a sample is greater than 5,000 parts per million limit set by Texaco itself? A MR. SELEY: Objection. Calls for expert g Q (BY MR. SMYSER) And that evidence of the TPH concentration greater than 5,000 parts per million. A Well, to - to be clear, I think the Column that's labeled source for maximum TPH, at Altopit is ays texaco. These were Chevron's experts doing G (BY MR. SMYSER) And this is evidence that G (BY MR. SMYSER) And this is evidence that a A Well, to - to be clear, I think the Column that's labeled source for maximum TPH, at Altopit is ays texaco. Chevron would probabilie the region that, absent oil exposure, would not the judicial inspection. G (BY MR. SMYSER) And this is evidence that G (BY MR. SMYSER) And this is evidence that a A Well, to - to be clear, I think the Column that's labeled source for maximum TPH, at Altopit it says texaco. Chevron would probabilie the indicates value per statistical value the or stated or states f the judicial inspection. A Tata what those dat are in the column that's labeled source for ma	6	Q (BY MR. SMYSER) Okay. And the well	6	slides involves the Cabrera report. I'm going to
 A That indicates whether the well was operated only by Texaco, in which case it says just Texaco, or whether the well was operated by Texaco and then taken over by Petrocuador. and then taken over by Petrocuador. and thene examples from this table that show the source for maximum TPH as being from Texaco and the a retriee of those. A Yes, I see them. O And what of the the word Sache 57, Sache 94, pit 1, and Sache 94, pit 2; is that Correct? A That's what I see, too. A That's what I see, too. A mat's what I see, too. A mat's use there or not the maximum TPH exceeds the f 5,000 parts per million limit set by Texaco itsel? A well, to - to be clear, I think the A Well, to - to be clear, I think the A Well, to - to be clear, I think the A Well, to - to be clear, I think the A Well, to - to be clear, I think the Culum that's labeled source for maximum TPH. at though it says Texaco. Chervon would probabilies. A Well, to - to be clear, I think the Culum that's labeled source for maximum TPH. at though it says Texaco. Chervon would probabilies. A Well, to - to be clear, I think the Column that's labeled source for maximum TPH. at though it says Texaco. Chervon would probabilies. A Well, to - to be clear, I think the Column that's labeled source for maximum TPH. at though it says Texaco. Chervon would probabilies. A Well, to - to be clear, I think the Column that's labeled source for maximum TPH. at though it says Texaco. Chervon would probabilies. A Well, to - to be clear, I think the Chervon took and is in the record in this case? MR. SELEY: Solpections. A Well, to - to be clear, I think the Chervon took and is in the record in this case? MR. SELEY: Solpect	7	operated by column, the last column?	7	skip over those because of what I told you earlier.
10 operated only by Texaco, in which case it says just 11 Texaco, or whether the well was operated by Texaco 12 and then taken over by Petroecuador, in which case it 12 13 and then taken over by Petroecuador, in which case it 13 14 0 (BY MR, SMYSER) Okay, I would like to 15 look at three examples from this table that show the 15 A This one? 16 source for maximum TPH as being from Texaco and the 16 O (BY MR, SMYSER) Yeah. 17 A That's what I see, too. 16 O (BY MR, SMYSER) Yeah. 18 are three of those. 19 A cexcess cancer deaths that is reported in the Cabrera 20 O Akay. And I think they cover Sacha 57, 20 O I believe the second buillet point 21 Correct? 21 Q I believe the second buillet point 22 Correct? MR. SELEY: Objection. Calls for expert 21 23 A That's what I see, too. 195 195 15 5,000 parts per million limit set by Texaco itsel?? 19 2 24 A reah, I don't understand exactly that 25 35 A In all three of those examples that you're	8	MR. SELEY: Same objections.	8	The judge said he didn't use the Cabrera report in
11 Texaco, or whether the well was operated by Texaco 11 If you would start with the cancer death 12 and then taken over by Petroecuador, in which case it 12 iff you would start with the cancer death 13 says Texaco-Petroecuador, 14 0 (BY MR, SMYSER) Okay. I would like to 15 look at three examples from this table that show the 15 A This one? 16 0 (BY MR, SMYSER) Yeah. 16 0 (BY MR, SMYSER) Yeah. 17 A This idle is describing the calculation 16 0 (BY MR, SMYSER) Yeah. 18 are three of those. 16 0 (BY MR, SMYSER) Yeah. 17 19 A Yes, I see them. 10 16 0 (BY MR, SMYSER) Yeah. 20 0 Okay. And I think they cover Sacha 57, 18 7 12 16 1 11 16 <td< th=""><th>9</th><th>A That indicates whether the well was</th><th>9</th><th>his sentencia. And there are three slides at the end</th></td<>	9	A That indicates whether the well was	9	his sentencia. And there are three slides at the end
12 and then taken over by Petroecuador, in which case it asys Texaco-Petroecuador. 12 slides, what is the purpose of that slide? 13 says Texaco-Petroecuador. 13 MR. SELEY: Objection. Calls for expert 14 Q (BY MR. SMYSER) Okay. I would like to block at three examples from this table that show the source for maximum TPH as being from Texaco and the well operated by Texaco. I think you'll see there 14 testimony. 15 ack at three of those. 16 Q (BY MR. SMYSER) Yeah. 17 16 ack at three of those. 18 of the dollar value associated with what are called excess cancer deaths that is reported in the Cabrera 17 A Yes, I see them. 19 excess cancer deaths that is reported in the Cabrera 18 of the dollar value associated with what are called 17 A Thi's slide is describing the calculation 18 of the dollar value associated with what are called 10 I believe the second bullet point 19 accorrect? 23 MR. SELEY: Objection. Calls for expert 24 A Yeah, I don't understand exactly that 19 5,000 parts per million. 195 195 195 1 5 A In all three of those examples that you're 6 highlighting, It says Texaco, Chevron wo	10	operated only by Texaco, in which case it says just	10	that seem to deal with cancer deaths.
13 says Texaco-Petrocuador. 14 MR. SELEY: Objection. Calls for expert 14 Q (BY MR. SMYSER) Okay. I would like to 14 testimony. 15 look at three examples from this table that show the 15 A This source? 16 source for maximum TPH as being from Texaco and the 16 Q (BY MR. SMYSER) Yeah. 17 A This source? Q (BY MR. SMYSER) Yeah. 18 are three of those. 19 excess cancer deaths that is reported in the Cabrera report. 18 are three of those. 19 excess cancer deaths that is reported in the Cabrera report. 20 O (Ayay. And I think they cover Sacha 57, 20 MR. SELEY: Objection. Leading, 21 O A That's what I see, too. 21 O I believe the second bullet point 22 A That's what I see, too. 23 MR. SELEY: Objection. Leading, 24 2 MR. SELEY: Objection. Calls for expert 19 19 15 1 0 GBY MR. SMYSER) And that evidence of the 19 19 19 1 MR. SELEY: Objection. Same objections. 10 A Have happened.	11	Texaco, or whether the well was operated by Texaco	11	If you would start with the cancer death
14 O (BY MR. SMYSER) Okay. I would like to 15 look at three examples from this table that show the 16 source for maximum TPH as being from Texaco and the 17 well operated by Texaco. I think you'll see there 18 are three of those. 14 testimony. 19 A Yes, I see them. 16 O (BY MR. SMYSER) Yeah. 20 Q Okay. And I think they cover Sacha 57, 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 22 19 excess cancer deaths that is reported in the Cabrera 20 23 A That's what I see, too. 24 A That's what I see, too. 24 Q And what do those three examples show with 25 23 MR. SELEY: Objection. Leading, 24 24 M And what do those three examples show with 25 195 15 15 5,000 parts per million limit set by Texaco itself? 2 A Yeah, I don't understand exactly that 25 26 2 MR. SELEY: Objection. Calls for expert 3 19 Q (BY MR. SMYSER) Okay. 2 2 A I all three of those examples that you're 6 19 Q Go ahead. 4 4 A Well, to to be clear, I think the 3 20 G WR. SMYSER) And this sevidence of the 9 10 And H looked at two sources for that, the 11 11 11 MR. SELEY: Objection. Same objections. <th>12</th> <th>and then taken over by Petroecuador, in which case it</th> <th>12</th> <th>slides, what is the purpose of that slide?</th>	12	and then taken over by Petroecuador, in which case it	12	slides, what is the purpose of that slide?
 look at three examples from this table that show the source for maximum TPH as being from Texaco and the source for maximum TPH as being from Texaco and the source for maximum TPH as being from Texaco and the source for maximum TPH as being from Texaco and the source for maximum TPH as the set on. A Yes, I see them. C O Kay. And I think they cover Sacha 57, Sacha 94, pit 1, and Sacha 94, pit 2; is that c correct? A That's what I see, too. A Wat. SELEY: Objection. Calls for expert A Wat. SELEY: Objection. Same objections. A Well, to to be clear, I think the Chevron took and is in the record in this case? MR. SELEY: Dijection. A Cheyr SMYSER) And this is evidence that Chevron took and is in the record in this case? MR.	13	says Texaco-Petroecuador.	13	MR. SELEY: Objection. Calls for expert
16 source for maximum TPH as being from Texaco and the 17 well operated by Texaco. 1 think you'll see there 18 are three of those. 19 A Yes, I see them. 20 Q Okay. And I think they cover Sacha 57, 21 Sacha 94, pit 1, and Sacha 94, pit 2: is that 22 correct? 23 A That's what I see, too. 24 Q And what do those three examples show with 25 respect to whether or not the maximum TPH exceeds the 19 Frespect to whether or not the maximum TPH exceeds the 19 Subschere 15 5,000 parts per million limit set by Texaco itself? 14 Incomplete hypothetical. 15 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than SALEY: Objection. Calls for sepert 16 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 MR. SELEY: Objection. Same objections. 12 A Well, to - to be clear, 1 think the 13 column that's labeled source for maximum TPH, 14 a	14	Q (BY MR. SMYSER) Okay. I would like to	14	testimony.
17 well operated by Texaco. I think you'll see there 17 A This silde is describing the calculation 18 are three of those. 18 of the dollar value associated with what are called 19 A Yes, I see them. 19 excess cancer deaths that is reported in the Cabrera 20 Q Okay. And I think they cover Sacha 57, 20 report. 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 21 Q I believe the second bullet point 22 correct? 23 MR. SELEY: Objection. Leading. 24 24 Q And what to those three examples show with 25 second bullet point. 25 respect to whether or not the maximum TPH exceeds the 195 1 21 Q (BY MR. SMYSER) Okay. 2 A I guess I'm sorry. 3 G Ga head. 4 A What the second bullet point is 5 A In all three of those examples that you're 4 A What the second bullet point is 6 of the excess cancer deaths, which would be the number of deaths that are caused by cancer in people 10 million is from Texaco itself? 1 Q (BY MR. SMYSER) And that evidence of the 11 MR. SE	15	look at three examples from this table that show the	15	A This one?
18 are three of those. 18 of the dollar value associated with what are called 19 A Yes, I see them. 19 of the dollar value associated with what are called 20 Q Okay. And I think they cover Sacha 57, 20 report. 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 21 Q I believe the second bullet point 23 A That's what I see, too. 23 MR. SELEY: Objection. Leading, 24 Q And what do those three examples show with 24 A Yeah, I don't understand exactly that 25 respect to whether or not the maximum TPH exceeds the 25 second bullet point. 25 maximum TPH exceeds the 25 second bullet point. 26 MR. SELEY: Objection. Calls for speculation. Misstates facts. 1 Q (BY MR. SMYSER) Okay. 2 A In all three of those examples that you're 5 highlighting is hore where I looked for estimates 3 Q (BY MR. SMYSER) And that evidence of the 10 And I looked at two sources for that, the 3 Q (BY MR. SMYSER) And this is evidence for 12 survey in the Cabrera report. 3 Q (BY MR. SMYSER) And this is evidence for 14 Q (BY MR. SMYSER) And this i		source for maximum TPH as being from Texaco and the	16	Q (BY MR. SMYSER) Yeah.
19 A Yes, I see them. 20 Q Okay. And I think they cover Sacha 57, 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 22 Q I believe the second bullet point 23 A That's what I see, too. 24 Q And what do those three examples show with 25 respect to whether or not the maximum TPH exceeds the 19 5,000 parts per million limit set by Texaco itself? 2 MR. SELEY: Objection. Calls for expert 3 testimony. Calls for speculation. Misstates facts. 4 Incomplete hypothetical. 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 that's labeled source for maximum TPH, in a sample is greater? 10 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 Col (BY MR. SMYSER) And that seidence of that 14 although it says Texaco, theuron would probably be 15 more accurate. These were Chevron's experts doing 16 more accurate. These were Chevron's experts doing 16 more accurate. These were Chevron's experts doing 16				-
 Q Okay. And I think they cover Sacha 57, Sacha 94, pit 1, and Sacha 94, pit 2; is that correct? A That's what I see, too. Q And what do those three examples show with respect to whether or not the maximum TPH exceeds the f. 5,000 parts per million limit set by Texaco itself? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Misstates facts. I nall three of those examples that you're highlighting, the maximum TPH in a sample is greater than 5,000 parts per million. Q (BY MR. SMYSER) And that evidence of the TPH concentration greater than 5,000 parts per MR. SELEY: Objection. Same objections. A Well, to to be clear, I think the column that's labeled source for maximum TPH, at the judicial inspection. A Well, to to be clear, I think the million is from Texaco. Chevron would probably be more accurate. These were Chevron's experts doing the judicial inspection. Q (BY MR. SMYSER) And this is evidence that Chevron took and is in the record in this case? MR. SELEY: Same objections. A I can't say that those data are in the record. I'm not sure what is in the record and what 		are three of those.	1	of the dollar value associated with what are called
 21 Sacha 94, pit 1, and Sacha 94, pit 2; is that 22 correct? 23 A That's what I see, too. 24 Q And what do those three examples show with 25 respect to whether or not the maximum TPH exceeds the 195 1 5,000 parts per million limit set by Texaco Itself? 2 MR. SELEY: Objection. Calls for expert 3 testimony. Calls for speculation. Misstates facts. 4 In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 10 MR. SELEY: Objection. Same objections. 12 A Well, to -: to be clear, I think the 13 column that's labeled source for maximum TPH, 14 atthough it says Texaco. Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 14 Ican't say that those data are in the 21 record. I'm not sure what is in the record and what 			1	excess cancer deaths that is reported in the Cabrera
 22 correct? 23 A That's what I see, too. 24 Q And what do those three examples show with 25 respect to whether or not the maximum TPH exceeds the 26 A Yeah, I don't understand exactly that 27 MR. SELEY: Objection. Calls for expert 3 testimony. Calls for speculation. Misstates facts. 4 Incomplete hypothetical. 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 MR. SELEY: Objection. Same objections. 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A 1 can't say that those data are in the 21 record. I'm not sure what is in the record and what 			1	•
 23 A That's what I see, too. 24 Q And what do those three examples show with 25 respect to whether or not the maximum TPH exceeds the 195 1 5,000 parts per million limit set by Texaco itself? 2 MR. SELEY: Objection. Calls for expert 3 testimony. Calls for speculation. Misstates facts. 4 Incomplete hypothetical. 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 MR. SELEY: Objection. Same objections. 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's tabeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 10 And that is USEPA? 11 Chevron took and is in the record in this case? 12 A L can't say that those data are in the 21 record. I'm not sure what is in the record and what 				
24 Q And what do those three examples show with respect to whether or not the maximum TPH exceeds the 24 A Yeah, I don't understand exactly that second buillet point. 195 195 195 195 1 5,000 parts per million limit set by Texaco itsel? 1 Q (BY MR. SMYSER) Okay. 2 A I guess I'm sorry. 3 Q Go ahead. 4 Incomplete hypothetical. 3 Q Go ahead. 4 A What the second buillet point is 5 5 highlighting, the maximum TPH in a sample is greater 6 of the excess cancer deaths, which would be the number of deaths that are caused by cancer in people 8 in the region that, absent oil exposure, would not 9 have happened. 9 TPH concentration greater than 5,000 parts per 10 And I looked at two sources for that, the epidemiological studies in the literature and a survey in the Cabrera report. 13 Column that's labeled source for maximum TPH, 14 atthough it says Texaco, Chevron would probably be 15 there indicates value per statistical life from 14 Q (BY MR. SMYSER) And this is evidence that 17 A That would be United States Environmental			1	
25 respect to whether or not the maximum TPH exceeds the 25 second buillet point. 1 5,000 parts per million limit set by Texaco itself? 1 Q (BY MR. SMYSER) Okay. 2 MR. SELEY: Objection. Calls for expert 3 a t guess I'm sorry. 3 testimony. Calls for speculation. Misstates facts. 4 A Up at the second builtet point is 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 4 A What the second builtet point is 8 Q (BY MR. SMYSER) And that evidence of the 9 highlighting is where where I looked for estimates 6 of the excess cancer deaths, which would be the number of deaths that are caused by cancer in people 8 Q (BY MR. SMYSER) And that evidence of the 9 9 TPH concentration greater than 5,000 parts per 9 10 million is from Texaco itself? 10 And I looked at two sources for that, the 12 A Well, to to be clear, I think the 12 survey in the Cabrera report. 13 column that's labeled source for maximum T				
19519515,000 parts per million limit set by Texaco itself?1Q(BY MR. SMYSER) Okay.2MR. SELEY: Objection. Calls for expert2AI guess I'm sorry.3testimony. Calls for speculation. Misstates facts.3QGo ahead.4Incomplete hypothetical.3QGo ahead.5AIn all three of those examples that you're6highlighting is where where I looked for estimates6highlighting, the maximum TPH in a sample is greater7thumber of deaths that are caused by cancer in people8Q(BY MR. SMYSER) And that evidence of the9TPH concentration greater than 5,000 parts per10million is from Texaco itself?10And I looked at two sources for that, the11MR. SELEY: Objection. Same objections.12A12AWell, to to be clear, I think the1213column that's labeled source for maximum TPH,13MR. SELEY: Objection. Move to strike.14although it says Texaco, Chevron would probably be14Q15more accurate. These were Chevron's experts doing1516the judicial inspection.1617Q(BY MR. SMYSER) And this is evidence that18Chevron took and is in the record in this case?1919QAnd what is that table or standard or20AI can't say that those data are in the21record. I'm not sure what is in the record and what2021 <td< th=""><th></th><th></th><th></th><th>-</th></td<>				-
15,000 parts per million limit set by Texaco itself?1Q(BY MR. SMYSER) Okay.2MR. SELEY: Objection. Calls for expert3QGo ahead.4Incomplete hypothetical.3QGo ahead.5AIn all three of those examples that you're6highlighting, the maximum TPH in a sample is greater77than 5,000 parts per million.8Q(BY MR. SMYSER) And that evidence of the98Q(BY MR. SMYSER) And that evidence of the9number of deaths that are caused by cancer in people8Q(BY MR. SMYSER) And that evidence of the9number of deaths that are caused by cancer in people9TPH concentration greater than 5,000 parts per10And I looked at two sources for that, the11MR. SELEY: Objection. Same objections.11Q(BY MR. SMYSER) The third bullet point13column that's labeled source for maximum TPH,13MR. SELEY: Objection. Move to strike.14although it says Texaco, Chevron would probably be14Q(BY MR. SMYSER) And this is evidence that16the judicial inspection.15there indicates value per statistical life from16MR. SELEY: Same objections.16AThat would be United States20AI can't say that those data are in the20And what is that table or standard or21Frecord. I'm not sure what is in the record and what21Environmental Protection Agency?	25	respect to whether or not the maximum TPH exceeds the	25	
 M. SELEY: Objection. Calls for expert testimony. Calls for speculation. Misstates facts. Incomplete hypothetical. A In all three of those examples that you're highlighting, the maximum TPH in a sample is greater than 5,000 parts per million. Q (BY MR. SMYSER) And that evidence of the TPH concentration greater than 5,000 parts per million is from Texaco itself? M. SELEY: Objection. Same objections. A Well, to to be clear, I think the column that's labeled source for maximum TPH, atthough it says Texaco, Chevron would probably be more accurate. These were Chevron's experts doing the judicial inspection. Q (BY MR. SMYSER) And this is evidence that Chevron took and is in the record in this case? M. SELEY: Same objections. A I can't say that those data are in the record. I'm not sure what is in the record and what M. SELEY: Same objections. A I can't say that those data are in the record. I'm not sure what is in the record and what M. SELEY: Same objections. A I can't say that those data are in the Text and this is evidence and what M. Sele States M. Sele Stat		195		197
 3 testimony. Calls for speculation. Misstates facts. 4 Incomplete hypothetical. 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 	1	5,000 parts per million limit set by Texaco itself?	1	Q (BY MR. SMYSER) Okay.
 Incomplete hypothetical. A In all three of those examples that you're highlighting, the maximum TPH in a sample is greater than 5,000 parts per million. Q (BY MR. SMYSER) And that evidence of the TPH concentration greater than 5,000 parts per million is from Texaco itself? MR. SELEY: Objection. Same objections. A Well, to to be clear, I think the column that's labeled source for maximum TPH, although it says Texaco, Chevron would probably be more accurate. These were Chevron's experts doing the judicial inspection. Q (BY MR. SMYSER) And this is evidence that Chevron took and is in the record in this case? MR. SELEY: Same objections. A I can't say that those data are in the record. I'm not sure what is in the record and what 		MR. SELEY: Objection. Calls for expert		A I guess I'm sorry.
 5 A In all three of those examples that you're 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 				
 6 highlighting, the maximum TPH in a sample is greater 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 				•
 7 than 5,000 parts per million. 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 		. ,		
 8 Q (BY MR. SMYSER) And that evidence of the 9 TPH concentration greater than 5,000 parts per 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 				·
9TPH concentration greater than 5,000 parts per9have happened.10million is from Texaco itself?10And I looked at two sources for that, the11MR. SELEY: Objection. Same objections.11epidemiological studies in the literature and a12AWell, to to be clear, I think the12survey in the Cabrera report.13column that's labeled source for maximum TPH,13MR. SELEY: Objection. Move to strike.14although it says Texaco, Chevron would probably be14Q(BY MR. SMYSER) The third bullet point15more accurate. These were Chevron's experts doing15there indicates value per statistical life from16the judicial inspection.16and what is USEPA?17Q(BY MR. SMYSER) And this is evidence that17A18Chevron took and is in the record in this case?19QAnd what is that table or standard or20AI can't say that those data are in the20statistical value from the United States21record. I'm not sure what is in the record and what21Environmental Protection Agency?				
 10 million is from Texaco itself? 11 MR. SELEY: Objection. Same objections. 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 10 And I looked at two sources for that, the 11 epidemiological studies in the literature and a 12 survey in the Cabrera report. 13 MR. SELEY: Objection. Move to strike. 14 Q (BY MR. SMYSER) The third bullet point 15 there indicates value per statistical life from 16 and what is USEPA? 17 A That would be United States Environmental 18 Protection Agency. 19 Q And what is that table or standard or 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 				
11MR. SELEY: Objection. Same objections.11epidemiological studies in the literature and a12AWell, to to be clear, I think the12survey in the Cabrera report.13column that's labeled source for maximum TPH,13MR. SELEY: Objection. Move to strike.14although it says Texaco, Chevron would probably be14Q(BY MR. SMYSER) The third bullet point15more accurate. These were Chevron's experts doing15there indicates value per statistical life from16the judicial inspection.16and what is USEPA?17Q(BY MR. SMYSER) And this is evidence that17A18Chevron took and is in the record in this case?19QAnd what is that table or standard or20AI can't say that those data are in the20statistical value from the United States21record. I'm not sure what is in the record and what21Environmental Protection Agency?		o		
 12 A Well, to to be clear, I think the 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 12 survey in the Cabrera report. 13 MR. SELEY: Objection. Move to strike. 14 Q (BY MR. SMYSER) The third bullet point 15 there indicates value per statistical life from 16 and what is USEPA? 17 A That would be United States Environmental 18 Protection Agency. 19 Q And what is that table or standard or 20 statistical value from the United States 21 record. I'm not sure what is in the record and what 			1	
 13 column that's labeled source for maximum TPH, 14 although it says Texaco, Chevron would probably be 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 13 MR. SELEY: Objection. Move to strike. 14 Q (BY MR. SMYSER) The third bullet point 15 there indicates value per statistical life from 16 and what is USEPA? 17 A That would be United States Environmental 18 Protection Agency. 19 Q And what is that table or standard or 20 statistical value from the United States 21 record. I'm not sure what is in the record and what 			1	
14although it says Texaco, Chevron would probably be more accurate. These were Chevron's experts doing the judicial inspection.14Q(BY MR. SMYSER) The third bullet point16the judicial inspection.15there indicates value per statistical life from17Q(BY MR. SMYSER) And this is evidence that 1817AThat would be United States Environmental18Chevron took and is in the record in this case?19MR. SELEY: Same objections.19QAnd what is that table or standard or20AI can't say that those data are in the 21record. I'm not sure what is in the record and what19QAnd what is that table or standard or 20			1	· ·
 15 more accurate. These were Chevron's experts doing 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 			1	-
 16 the judicial inspection. 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 16 and what is USEPA? 17 A That would be United States Environmental 18 Protection Agency. 19 Q And what is that table or standard or 20 statistical value from the United States 21 record. I'm not sure what is in the record and what 				· · · ·
 17 Q (BY MR. SMYSER) And this is evidence that 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 17 A That would be United States Environmental 18 Protection Agency. 19 Q And what is that table or standard or 20 statistical value from the United States 21 Environmental Protection Agency? 				
 18 Chevron took and is in the record in this case? 19 MR. SELEY: Same objections. 20 A I can't say that those data are in the 21 record. I'm not sure what is in the record and what 18 Protection Agency. 19 Q And what is that table or standard or 20 statistical value from the United States 21 Environmental Protection Agency? 				
19MR. SELEY: Same objections.19QAnd what is that table or standard or20AI can't say that those data are in the20statistical value from the United States21record.I'm not sure what is in the record and what21Environmental Protection Agency?				
20AI can't say that those data are in the20statistical value from the United States21record.I'm not sure what is in the record and what21Environmental Protection Agency?				
21 record. I'm not sure what is in the record and what 21 Environmental Protection Agency?	20	2		
	22		22	C J
23 inspection expert reports. 23 testimony, and calls for speculation.	23		23	-
24 Q (BY MR. SMYSER) Okay. To your knowledge, 24 A My understanding is that USEPA has adopted	24		24	
25judicial inspection reports are in the record?25a dollar value for what is called statistical life,	25	judicial inspection reports are in the record?	25	a dollar value for what is called statistical life,

50 (Pages 194 to 197)

	198		200
1	and they use that dollar value in cost benefit	1	distance family lives from oil well. Can you explain
2	analyses of regulations.	2	those two values for us?
3	For example, if a regulation is going to	3	MR. SELEY: Objection to the extent it
4	save X number of people from dying early, it's a way	4	calls for expert testimony. Otherwise the document
5	to put a dollar value on the benefits of that	5	speaks for itself.
6	particular regulation.	6	A Yes. I was taking the data from annex L
7	Q Do you recall what that value was?	7	of the Cabrera report. And in the surveys of people
8	MR. SELEY: Object. Objection. Calls for	8	they asked many different kinds of questions. One
9	expert testimony. Calls for speculation. Lacks	9	question was about incidences of cancer in their
10	foundation.	10	family. Another question was about how close the
11	A I think the last I knew what it was, it	11	family lived from an oil well.
12 13	was just over \$8 million.	12 13	And what is shown here are the data
14	Q (BY MR. SMYSER) Per life?	14	showing that the closer a family lives to an oil
15	 A Per life, yes. MR. SELEY: Same objections. 	15	well, the higher the chance that that family had a case of cancer reported by the survey respondent.
16	Q (BY MR. SMYSER) Let's go to the next	16	MR. SELEY: Move to strike.
-• 17	slide. It's entitled, number of cancer cases per	17	Q (BY MR. SMYSER) And what are the numbers
18	family. What families do you have reference to	18	at the bottom of the graph?
19	there?	19	MR. SELEY: Same objections.
20	MR. SELEY: Objection. Calls for expert	20	A The numbers represent how far away from a
21	testimony. Calls for speculation. Lacks foundation.	21	well the family lived. It ranges from, there are
22	A These are data that come from annex L of	22	four different categories. Less than 250 meters from
23	the Cabrera report. And that annex describes a	23	the well, 250 to 500 meters, 500 meters to two
24	survey of people who live in the area of the	24	kilometers or over two kilometers from a well.
25	concession. And the survey, amongst the pieces of	25	Q And do you have any information as to what
	199		201
1	information they collected in that survey, was the	1	kind of cancers were being measured here?
2	number of cancer cases in the family of the person	2	MR. SELEY: Objection. Calls for expert
3	being surveyed.	3	testimony. Calls for speculation. Lacks foundation.
4	I don't recall specifically how they	4	
			A I don't recall what is what is reported
5	defined family, whether it was immediate family or	5	in annex L about the kinds of cancers. I may have
6	defined family, whether it was immediate family or extended family, but it refers to the family of the	6	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but
6 7	defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed.	6 7	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now.
6 7 8	defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families	6 7 8	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what
6 7 8 9	defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike.	6 7 8 9	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer
6 7 8 9 10	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue 	6 7 8 9 10	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther
6 7 8 9	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the 	6 7 8 9	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells?
6 7 8 9 10 11	defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations?	6 7 8 9 10 11	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert
6 7 8 9 10 11 12	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the 	6 7 8 9 10 11 12	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells?
6 7 8 9 10 11 12 13	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls 	6 7 9 10 11 12 13	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation.
6 7 8 9 10 11 12 13 14	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert 	6 7 8 9 10 11 12 13 14	 in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many
6 7 8 9 10 11 12 13 14 15 16 17	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. 	6 7 8 9 10 11 12 13 14 15	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the
6 7 8 9 10 11 12 13 14 15 16 17 18	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any 	6 7 8 9 10 11 12 13 14 15 16 17 18	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was 	6 7 8 9 10 11 12 13 14 15 16 17 18 19	 in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was within the concession. 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those families had cancer; whereas, as you go out to over
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was within the concession. Q (BY MR. SMYSER) Okay. And what does the 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those families had cancer; whereas, as you go out to over two kilometers away, the percent drops to a little
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was within the concession. Q (BY MR. SMYSER) Okay. And what does the graph show us? I see on the one axis we've got 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those families had cancer; whereas, as you go out to over two kilometers away, the percent drops to a little over 10 percent.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was within the concession. Q (BY MR. SMYSER) Okay. And what does the graph show us? I see on the one axis we've got percent of families? 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those families had cancer; whereas, as you go out to over two kilometers away, the percent drops to a little over 10 percent.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 defined family, whether it was immediate family or extended family, but it refers to the family of the person being surveyed. Q And the families MR. SELEY: Move to strike. Q (BY MR. SMYSER) And the families at issue are the families that were living in areas around the Texaco oil wells or production stations? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. Calls for expert testimony. A What I recall from annex L is that the survey was only of people who lived in the area of the concession. I don't recall if they surveyed any people outside of the concession, but the focus was within the concession. Q (BY MR. SMYSER) Okay. And what does the graph show us? I see on the one axis we've got 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	in annex L about the kinds of cancers. I may have information on that if I were to look at annex L, but I don't remember as I sit here right now. Q (BY MR. SMYSER) And in summation, what does the data show about the prevalence of cancer among families who live closer as opposed to farther away from the wells? MR. SELEY: Objection. Calls for expert testimony, calls for speculation, lacks foundation. A These data, they're grouped into how many cases of cancer the respondent identified in the family. So if we look at, there are the instances where the respondent said there was one cancer case in their family, for the families that live within 250 meters of an oil well, 20 percent of those families had cancer; whereas, as you go out to over two kilometers away, the percent drops to a little over 10 percent.

51 (Pages 198 to 201)

	204
1 surveyed said in their family they have two or more 1 100,000 people as a function of	of age in women, and
2 cases of cancer. 2 whether women are exposed,	8
3 For those who lived closest to the wells 3 or non-exposed, as they classi	•
4 it's a little under 10 percent of those families; 4 Regardless of where they were	,
5 whereas moving out farther away from the wells, it 5 rate increases as they get older	
 6 drops to, oh, it looks like perhaps 2 percent in that 6 expect. But the rate increases 	
 7 range, roughly, maybe 1 percent of the families of 7 they identified as exposed to compare the families of 	
 8 the survey respondents who lived over 2 kilometers, 8 areas. 	sir, innig in expected
 9 reported two or more cases of cancer in their family. 9 So that the cancer rate 	e shown on this nlot
10 MR. SELEY: Move to strike. 10 is higher for women who live i	•
11 Q (BY MR. SMYSER) Did you form an opinion 11 versus those living in the non-	•
12 at the time as to whether or not the Texaco petroleum 12 Q (BY MR. SMYSER) All	•
13 activities played any role in these increased cancer 13 an opinion at the time as to w	
14 rates among the families 14 of cancer rates among women	
15 MR. SELEY: Objection. Leading. Calls 15 tied to Texaco's actions production.	•
16 for expert testimony.	
17 Q (BY MR. SMYSER) as a statistical 17 MR. SELEY: Objection	Calls for expert
18 matter? 18 testimony. Calls for speculation	•
19 MR. SELEY: I apologize. Objection. 19 A I recall after reading t	
20 Leading. Calls for expert testimony. 20 and some companion papers b	• • •
21 A No, not as a statistical. I didn't do a 21 found their data and their stor	
22 statistical analysis of these data, nor did I do a 22 higher cancer rates within exp	
23 statistical analysis of a potential link between 23 compelling.	
24 these data and contamination from Texaco. 24 I don't think they spec	ifically identified
25 Q (BY MR. SMYSER) Let's go to the next 25 the Texaco operations as the d	
203	205
1 slide, if we can. This slide, again, is called 1 thought about or analyzed T	exaco operations versus.
2 cancer rates in women. And I assume this has 2 say, Petroecuador operation	•
3 reference to women in the concession, but maybe I'm 3 find their conclusions about	
4 wrong. 4 in people living in the oil, are	-
5 Could you tell us what category of women 5 to be higher than people livi	
6 you're referring to in that slide? 6 to be compelling.	
	Leaving aside for the
8 Calls for speculation. 8 moment the issue of whether	•
9 A This is a graph that I copied out of a 9 Petroecuador post 1990 may	
10 paper in the literature written by Hurtig and San 10 rise in the cancer rates, did	-
11 Sebastian, published in 1992. 11 to whether or not the Texac	
12 What I recall from that study is they 12 any role in the increase in the	
13 looked at data in the cancer cases in the cancer 13 women who were exposed t	o oil?
14 registry in Quito. So it's the national records of 14 MR. SELEY: Objection	on. Calls for expert
15 cancer cases, cancer record database. And they 15 testimony. Calls for specula	tion. Lacks foundation.
16 compared the rates of cancer between people living 16 A Yes, I did.	
17 out in the rainforest area, who lived in what they 17 Q (BY MR. SMYSER)	And what was your
18 called areas exposed to oil and areas not exposed to 18 opinion?	
19 oil. 19 MR. SELEY: Same o	bjections.
	t it was likely that the
Here I have a second seco	caused by Texpet
21 respect to cancer incidence rates among women who 21 exposure to the carcinogens	
22 were exposed and non-exposed? 22 operations at least contribut	ed to the higher rates
22were exposed and non-exposed?22operations at least contribut23MR. SELEY: Objection. Calls for expert23of cancer.	ed to the higher rates
22were exposed and non-exposed?22operations at least contribut23MR. SELEY: Objection. Calls for expert23of cancer.	ed to the higher rates Let's turn to the next

52 (Pages 202 to 205)

	206		208
1	MR. SELEY: Move to strike.	1	Q And in your slide you have reference to
2	Q (BY MR. SMYSER) This is the last slide in	2	this. Is this the report you have reference to as
3	this presentation. And you pose a question,	3	HBT AGRA report in your slide?
4	Chevron's positions re: scientific evidence? What	4	A Yes.
5	did you mean by that question?	5	Q Okay.
6	MR. SELEY: Objection to the question.	6	(Exhibit 4 marked.)
7	Calls for expert testimony.	7	Q (BY MR. SMYSER) Let me hand you Exhibit 4
8	A When I put this slide together, the	8	and ask you if you can identify that for us.
9	purpose was to point out what I thought Chevron's	9	MR. SELEY: Craig, can I ask you, did we
10	positions might be when it comes to all the	10	provide these documents to you, Exhibit 3 and
11	scientific evidence that I had just gone through in	11	Exhibit 4?
12	this presentation.	12	MR. MURPHY: I don't know the answer to
13	That Chevron is likely to have responses	13	that.
14	and these are my thoughts about what those responses	14	MR. SELEY: Okay. I don't recognize some
15	might be.	15	of the multiple Bates stamps on here.
16	MR. SELEY: Move to strike as speculation.	16	MR. SMYSER: It says CA 1069438 and I
17	Q (BY MR. SMYSER) Okay. So this was your	17	don't know what CA, which identifier that is.
18	list of arguments that you understood Chevron might	18	MR. SELEY: Yeah.
19	make in an effort to counteract the data and evidence	19	MR. SMYSER: Sorry.
20	that we've been examining for several hours today?	20	A This is a report by Fugro-McClelland,
21	MR. SELEY: Objection. Calls for	21	which is the results of their audit of Texaco's field
22	speculation.	22	operations. Again, I have looked at a report at
23	A Yes.	23	least similar to this. I don't remember the Bates
24	MR. SELEY: And leading.	24	stamping and the confidential at the bottom. And
25	Q (BY MR. SMYSER) I would like to turn back	25	this is what is referenced in the table in the
	207		209
	207		209
-		_	
1	to the slide called investigations conducted in the	1	presentation we were talking about.
2	Napo concession prior to trial?	2	presentation we were talking about. Q (BY MR. SMYSER) And you read these
2 3	Napo concession prior to trial? MR. SELEY: Do you know roughly what page	2 3	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your
2 3 4	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is?	2 3 4	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation?
2 3 4 5	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the	2 3 4 5	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading.
2 3 4 5 6	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through.	2 3 4 5 6	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not
2 3 4 5 6 7	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173.	2 3 4 5 6 7	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them.
2 3 4 5 6 7 8	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173.	2 3 4 5 6 7 8	presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have,
2 3 4 5 6 7 8 9	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me?	2 3 4 5 6 7 8 9	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I
2 3 4 5 6 7 8 9 10	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes.	2 3 4 5 6 7 8 9	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them.
2 3 4 5 6 7 8 9 10 11	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports	2 3 4 5 6 7 8 9 10 11	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about
2 3 4 5 6 7 8 9 10 11 12	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations	2 3 4 5 6 7 8 9 10 11 12	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell
2 3 4 5 6 7 8 9 10 11 12 13	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial.	2 3 4 5 6 7 8 9 10 11	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them?
2 3 4 5 6 7 8 9 10 11 12 13 14	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that?	2 3 4 5 6 7 8 9 10 11 12 13 14	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think
2 3 4 5 6 7 8 9 10 11 12 13	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes.	2 3 4 5 6 7 8 9 10 11 12 13	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for us. A This looks to be the audit report prepared 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either. Q Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for us. A This looks to be the audit report prepared by HBT AGRA for Texaco, although I haven't looked at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either. Q Okay. (Exhibit 5 marked.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for us. A This looks to be the audit report prepared by HBT AGRA for Texaco, although I haven't looked at every single page. I've seen a copy of this that 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either. Q Okay. (Exhibit 5 marked.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for us. A This looks to be the audit report prepared by HBT AGRA for Texaco, although I haven't looked at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either. Q Okay. (Exhibit 5 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Exhibit 5 and ask if you can identify
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Napo concession prior to trial? MR. SELEY: Do you know roughly what page that is? MR. SMYSER: It's about two-thirds of the way through. MR. MURPHY: 173. MR. SELEY: Sorry, 173. Q (BY MR. SMYSER) Are you with me? A Yes. Q We touched on this briefly about reports that you relied on that were from investigations conducted in the Napo concession prior to the trial. Do you remember that? A Yes. (Exhibit 3 marked.) Q (BY MR. SMYSER) And I would like to hand you Exhibit 3 and ask if you can identify this for us. A This looks to be the audit report prepared by HBT AGRA for Texaco, although I haven't looked at every single page. I've seen a copy of this that hasn't had the Bates stamping and confidential 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 presentation we were talking about. Q (BY MR. SMYSER) And you read these reports and relied upon them in the course of your work on the Lago Agrio litigation? MR. SELEY: Objection. Leading. Q (BY MR. SMYSER) Tell me whether or not you reviewed them. A Assuming these are the same that I have, because these are not the exact same copies, yes, I did review them, I did rely on them. Q Okay. What can you tell us about Fugro-McClelland, as to who they are? Can you tell us anything briefly about them? A I don't know much about them. I think they are a consulting company, but beyond that I can't really say. Q How about HBT AGRA? A I don't know much about them either. Q Okay. (Exhibit 5 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Exhibit 5 and ask if you can identify Exhibit 5 for us.

53 (Pages 206 to 209)

	210		212
1	documents. One is the first document is a series	1	statements in these audit reports that, in our
2	of statements or quotes, if you will, that we pulled	2	opinion, we thought might be helpful to show what
3	from the Fugro-McClelland document. And the second	3	Texaco's own audits showed about their operations and
4	document is the same for the HBT AGRA audit report.	4	the contamination that it caused.
5	Q And you prepared those documents?	5	Q And was it an effort to distill down some
6	A I prepared the document on the HBT AGRA	6	of the length of these several hundred page reports
7	report. My recollection is that Ann Maest prepared	7	and to provide the segments of the report that you or
8	the document on Fugro-McClelland.	8	Ms. Maest thought would be significant to the issues
9	Q Did you approve the document that you sent	9	presented by the arguments surrounding Texaco's
10	Mr. Donziger prepared by Ms. Maest on the	10	alleged contamination of the environment?
11	Fugro-McClelland Inc. audit?	11	MR. SELEY: Objection. Misstates the
12	MR. SELEY: Objection. Vague.	12	testimony. Vague. Leading.
13	A I'm sorry, was the word approve?	13	A Yes, it was an effort. We I know I
14	Q (BY MR. SMYSER) Yeah, accept, authorize,	14	read the entire HBT AGRA document, and I think Ann
15	are you sending it on as something that you authorize	15	read the entire Fugro document and it did take some
16	as part of the work, or is it a rogue document?	16	time.
17	A No, I reviewed this before I sent it, I	17 18	MR. SELEY: I apologize, I didn't mean to interrupt for a second. We've lost our live feed
18 19	recall that. And I knew what it was when I was sending it.	19	here. It looks like there was some there was an
20	Q Okay. Let me review a little bit of these	20	objection missed. Thank you.
21	documents with you, if I might. Let's turn to page 1	21	MR. SMYSER: We're back.
22	of the first document, which is the audit prepared by	22	MR. SELEY: It looks like we're back on,
23	Fugro-McClelland with notes thereof. And as I	23	thanks.
24	understand it, in each one of these boxes is a quote	24	MR. SMYSER: Okay.
25	from the report.	25	Q (BY MR. SMYSER) Let's go to the second
	211		213
1	MR. SELEY: Objection. Leading.	1	box under E-2. The first sentence provides that all
2	Q (BY MR. SMYSER) Is that what your	2	produced water from the production facilities
3	understanding is?	3	eventually discharged to creeks and streams except
4	A That is my understanding, yes.	4	for one facility which used a percolation pit.
5	Q Okay. Would you read the second box under	5	Can you tell us what the one facility was
6	E-1 there for us, please.	6	that used a percolation pit?
7	MR. SELEY: Objection. I mean, there's	7	A No, I can't.
8	better evidence than this. It's Exhibit 3 and	8	Q Okay.
9	Exhibit 4, rather than Exhibit 5, which seems to be	9	A I don't remember. And I don't think that
10	some effort to reproduce material from the actual	10	I ever knew because I didn't read this document.
11	reports. I think it's more proper if you want him to	11	Q Okay. Was the rest of this audit sentence
12	look at the reports and describe the reports that he	12	that I just read, that produced water was eventually
13 14	actually look and describe the reports. Q (BY MR. SMYSER) Can you read that for me,	13 14	discharged to creeks and streams consistent or not consistent with what you learned in the course of
15	please?	15	your work on this matter?
16	A The audit, excuse me, the audit identified	16	MR. SELEY: Objection. Calls for
17	hydrocarbon contamination requiring mediation at all	17	speculation. Language taken out of context.
18	production facilities and a majority of the drill	18	A Yes, that's consistent with my
19	sites.	19	understanding of how Texaco operated.
20	MR. SELEY: Objection. Hearsay. The	20	Q (BY MR. SMYSER) The last sentence of that
21	document or quotes taken out of context.	21	same box reads, facility modifications will be
22	Q (BY MR. SMYSER) What was the purpose of	22	required at those facilities to bring the discharges
23	selecting quotes from the longer report to send to	23	into compliance with the current regulatory
24	Mr. Donziger?	24	standards.
25	A We did this to highlight for Mr. Donziger	25	Did you learn whether or not Texaco in the

54 (Pages 210 to 213)

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

	214		216
1	course of its remediation ever brought any of the	1	though, that it retained the crude oil, from my
2	facilities into compliance with the current	2	observations. Because I have seen instances of oil
3	regulatory standards?	3	contamination where those pipes come out of the pits
4	A That sentence I think is referring to the	4	and downstream of there.
5	production facilities when it says at those	5	So from my observations it has not
6	facilities. And I don't recall Texaco doing anything	6	retained the crude oil.
7	at the production facilities as part of its cleanup	7	MR. SELEY: Move to strike as speculative,
8	to improve their operations. So no, as far as I	8	lacks foundation.
9	know, they didn't do anything like that.	9	Q (BY MR. SMYSER) Based on your own
10	Q If you look at 5-1 and 5-4, the last	10	personal observation, you saw that on occasions,
11	sentence of that provides that environmental impact	11	crude oil would flow from the pit?
12	studies were not prepared for exploratory drilling	12	MR. SELEY: Objection. Vague.
13	conducted in the consortium after 1976.	13	A Yeah, I don't think I could say I've seen
14	Were you or were you not aware that the	14	the crude oil flowing while it's flowing, but I've
15	environmental law, decree number 374, 1976, required	15	seen the crude oil downstream of the pit, downstream
16	environmental impact studies?	16	of the pipe, that could only have come from the pipe.
17	MR. SELEY: Objection. Object to this	17	MR. SELEY: Objection. Or sorry, move to
18	whole line of questions as to relevance and the	18	strike.
19	objection that it's taken out of context.	19	Q (BY MR. SMYSER) Let's turn the page and
20	A When I reviewed this, I certainly would	20	go to 6-25, the box immediately above 6-26. It says,
21	have been aware of it, but I don't remember sitting	21	in general spills of hydrocarbons and chemicals were
22	here right now.	22	not cleaned up. Instead, they were covered with a
23	Q (BY MR. SMYSER) What are environmental	23	sand.
24	impact studies, incidentally?	24	Is that consistent with what you saw about
25	A My understanding is that they are	25	how or learned about how oil spills were handled by
	215		217
1	215 predictions of how certain operations or facilities	1	217 Texaco?
1 2		1	
	predictions of how certain operations or facilities		Texaco?
2	predictions of how certain operations or facilities will impact the environment. And in some cases it	2	Texaco? MR. SELEY: Objection. Calls for
2 3	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might	2 3	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation.
2 3 4	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment.	2 3 4	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I
2 3 4 5	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay.	2 3 4 5	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills.
2 3 4 5 6	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks	2 3 4 5 6	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an
2 3 4 5 6 7	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative.	2 3 4 5 6 7	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at
2 3 4 5 6 7 8	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to	2 3 4 5 6 7 8 9	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time?
2 3 4 5 6 7 8 9	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there	2 3 4 5 6 7 8 9	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10 11 12	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was	2 3 4 5 6 7 8 9 10	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually	2 3 4 5 6 7 8 9 10 11 12 13	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill
2 3 4 5 6 7 8 9 10 11 12 13 14	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or	2 3 4 5 6 7 8 9 10 11 12 13 14	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But
2 3 4 5 6 7 8 9 10 11 12 13 14 15	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever. A The siphons that are being referred to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a majority of the well sites. According to the 1974
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever. A The siphons that are being referred to must be the pipes, what I called the pipes earlier,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a majority of the well sites. According to the 1974 Ecuadorian law and regulation of the discharge of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever. A The siphons that are being referred to must be the pipes, what I called the pipes earlier, that were built into the side of the pits. And, yes,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a majority of the well sites. According to the 1974 Ecuadorian law and regulation of the discharge of pollutants that are dangerous to the environment and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever. A The siphons that are being referred to must be the pipes, what I called the pipes earlier, that were built into the side of the pits. And, yes, siphons, as it says here, which allowed collected	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a majority of the well sites. According to the 1974 Ecuadorian law and regulation of the discharge of pollutants that are dangerous to the environment and human health is prohibited. Based on regulatory
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	predictions of how certain operations or facilities will impact the environment. And in some cases it can also be predictions of how the action might impact people through impacts to the environment. Q Okay. MR. SELEY: Move to strike. Lacks foundation. Speculative. Q (BY MR. SMYSER) Would you turn over to 6-10, please, the next page. The first box there says, some of the pits contain siphons which allowed collected water to be released while retaining the crude oil. Contamination beyond the pits was observed at some areas. The contamination usually occurred as a result of pit overflow, burn failure or releases through the siphon. Did your own personal observations confirm the accuracy of that statement? MR. SELEY: Objection. Lacks any foundation whatsoever. A The siphons that are being referred to must be the pipes, what I called the pipes earlier, that were built into the side of the pits. And, yes,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Texaco? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, this is consistent with what I learned about how Texaco dealt with spills. Q (BY MR. SMYSER) And was that an acceptable standard on how to deal with spills at that time? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation. Calls for speculation. A I don't know. Again, it's a spill-by-spill basis. I think I testified earlier that it was standard to have some sort of spill response program in place, which Texaco did not. But on a spill-by-spill basis, I don't think I could answer that. Q (BY MR. SMYSER) Okay. Let's turn the page and go to 6-33. The second box says, hydrocarbon contamination was identified at a majority of the well sites. According to the 1974 Ecuadorian law and regulation of the discharge of pollutants that are dangerous to the environment and

T

55 (Pages 214 to 217)

	218		220
1	environment must be remediated.	1	So I think it was if your question was,
2	And my question is, based on your	2	is it specific to where the oil wells were located,
3	examination of the sites that were contained	3	it was more than just the oil wells themselves.
4	hydrocarbon contamination, were they remediated	4	Q A broader assessment?
5	pursuant to Ecuadorian law?	5	A Yes, a broader assessment.
6	MR. SELEY: Objection. Calls for	6	Q 2.4, you indicate and quote that the
7	speculation. Lacks foundation. Calls for expert	7	orient is located within the Amazon basin which is
8	testimony.	8	known for its biological diversity.
9	A I observed I observed petroleum	9	What area are you referring to or does the
10	contamination just with my eyes at sites that Texaco	10	quote refer to as the orient or oriente?
11	reported to be cleaned up, and where they conducted	11	MR. SELEY: Objection. Calls for
12	cleanup activities. So I know just from visual	12	speculation. Lacks foundation.
13	observation that there's still oil at sites where	13	A This quote is what HBT AGRA wrote. My
14	Texaco did cleanup.	14	understanding of the oriente is it's another way to
15	Whether, as it says here, the pollutants	15	refer to this part of Ecuador. It's the eastern part
16	are dangerous to the environment and human health,	16	of Ecuador out in the it's past the Andes out in
17	I for one, that's not something that can be	17	the Amazon basin, and it's sometimes referred to as
18	observed visually. And secondly, I don't recall that	18	the oriente in this area. So this is the area where
19	I've looked at the data specifically from that	19	the concession is located.
20	perspective, other than what we've talked about	20	Q (BY MR. SMYSER) You next have a quote the
21	before with the produced water.	21	Amazon is characterized by its richness in diverse
22	Q (BY MR. SMYSER) And your data on produced	22	fauna and flora. Many wildlife species are endemic
23	water would indicate that a satisfactory remediation	23	to the Ecuador or the Amazon basin.
24	was not achieved in terms of eliminating the TPH	24	What role, if any, did that observation
25	contamination from the environment?	25	play in your decision to use the 1,000 parts per
	219		221
1	MR. SELEY: Objection. Misstates	1	million TPH standard established by Ecuadorian law,
2	testimony. Misstates facts. Calls for expert	2	which I believe you previously testified to only
3	testimony.	3	applied in areas where there was a delicate
4	A If the TPH data or I'm sorry, the data	4	environment?
5	on production water certainly showed that Texaco is	5	MR. SELEY: Objection. Misstates
6	discharging into the environment water that had high	6	testimony. Lacks foundation. Calls for speculation.
7	salt content, high TPH content. I don't know of any	7	A The instances where I compared data from
8	efforts to remediate the contamination that resulted	8	the area with the 1,000 parts per million standard,
9	from that discharge.	9	it was not my decision to use the 1,000 parts per
10	MR. SELEY: Move to strike.	10	million standard. I was told by plaintiff attorneys
11	Q (BY MR. SMYSER) Let me direct your	11	that that's the standard that's appropriate.
12	attention to your the start of your quotes from	12	I think I testified also that my
13	the HBT 1993 AGRA report. You first note that they	13	understanding was, that's the standard that's
14	call the document an environmental assessment of the	14	appropriate because it's the standard that applies to
15	consortium oil fields.	15	sensitive ecosystems or some similar translation.
16	Was it your understanding that the	16	And a quote like this points out that this
17	evaluation included oil wells and production	17	is in an area of high species diversity, very high
18 19	stations, or was the evaluation only limited to the	18	ecological value.
19 20	oil field where the oil was being produced, if that	19	THE REPORTER: Is or is not?
20 21	distinction makes sense?	20 21	THE DEPONENT: I'm sorry? THE REPORTER: That this isn't an area or
22	A I don't remember now what the whole scope was. I remember they report on wells. They report	22	is an area?
22	on conditions at production sites, production	22	THE DEPONENT: Is in an area. Sorry.
24	facilities. They also reported on conditions at	24	THE REPORTER: Thank you.
25	camps where workers were housed.	25	Q (BY MR. SMYSER) Do you think, regardless
11	samps million workers were noused.	1-2	Contractory Do you think, regulatess

212-267-6868

56 (Pages 218 to 221)

	222		224
1	of what the plaintiffs' lawyers told you, do you	1	correct?
2	think application of a thousand parts per million	2	A That's correct.
3	standard was appropriate in evaluating the TPH	3	Q If you'll look down the page to page 4.2
4	concentration level?	4	it says, decree number 1459 passed in September 27,
5	MR. SELEY: Objection. Calls for expert	5	1971, colon.
6	testimony. Calls for a legal conclusion.	6	And before I read, the information
7	A I think what's appropriate or not	7	regarding decree number 1459 passed in September
8	appropriate depends on what the objective is. And my	8	1971, was that a piece of information you obtained
9	understanding from the plaintiff attorneys is that	9	independently or was that a piece of information
10	the thousand parts per million is appropriate as a	10	which you obtained from the HBT AGRA report?
11	legal standard, but I don't have a conclusion about	11	MR. SELEY: Objection. Vague and
12	that.	12	compound.
13	Q (BY MR. SMYSER) Okay. As an	13	A I don't remember. It's not in a quote in
14	environmental scientist, if you were asked to pick a	14	this document, so I don't remember if I'm just making
15	standard to determine the TPH concentrations in this	15	it easier to get to the quote that I then provide or
16	area, how would you go about selecting the standard?	16	whether I knew separately somehow that that's where
17	MR. SELEY: Objection. Calls for	17	the quote applies to.
18	speculation. Incomplete hypothetical.	18	I would guess that that decree is
19	A I would first think, or get information	19	described in the HBT AGRA document, but I don't
20	about why I'm comparing the contamination to a	20	recall.
21 22	standard. Am I doing it to find out if there is any	21 22	Q Okay. And the quote provides the operator
22	contamination at all? Am I doing it to find out if	23	was required to adopt all necessary measures for the
23	there is a contamination above a legal standard? Am	24	protection of the flora, fauna, and other natural
25	I doing it to find out, such as in the Superfund program, what are the 400 or so worst sites anywhere	25	resources and to prevent pollution of the water, the atmosphere, and the land.
	223		
	225		225
1	that we have enough money to clean up? So it would	1	Do you see that quote?
2	that we have enough money to clean up? So it would depend on why I'm doing it.	2	Do you see that quote? A Yes, I do.
2 3	that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question	2 3	Do you see that quote? A Yes, I do. Q Based on your work, background, training
2 3 4	that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing	2 3 4	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether
2 3 4 5	that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about.	2 3 4 5	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary
2 3 4 5 6	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to 	2 3 4 5 6	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and
2 3 4 5 6 7	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied 	2 3 4 5 6 7	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources?
2 3 4 5 6 7 8	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of 	2 3 4 5 6 7 8	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about 	2 3 4 5 6 7 8 9	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation.
2 3 4 5 6 7 8 9 10	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? 	2 3 4 5 6 7 8 9 10	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance.
2 3 4 5 6 7 8 9 10 11	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for 	2 3 4 5 6 7 8 9	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did.
2 3 4 5 6 7 8 9 10	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? 	2 3 4 5 6 7 8 9 10 11	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance.
2 3 4 5 6 7 8 9 10 11 12	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. 	2 3 4 5 6 7 8 9 10 11 12	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your
2 3 4 5 6 7 8 9 10 11 12 13	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be 	2 3 4 5 6 7 8 9 10 11 12 13	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion?
2 3 4 5 6 7 8 9 10 11 12 13 14	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the 	2 3 4 5 6 7 8 9 10 11 12 13 14	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on the contamination situation, I think I would know 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the flora, fauna and other natural resources?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on the contamination situation, I think I would know which standards apply. In a place like Ecuador, I 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the flora, fauna and other natural resources? MR. SELEY: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on the contamination situation, I think I would know which standards apply. In a place like Ecuador, I would have to get that information from attorneys as 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. A Correct, and to prevent the pollution of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on the contamination situation, I think I would know which standards apply. In a place like Ecuador, I would have to get that information from attorneys as to what standards apply. Q (BY MR. SMYSER) Okay. And in this instance, the attorneys you relied on to give you 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. A Correct, and to prevent the pollution of the water, the atmosphere, and the land. MR. SELEY: Objection. Leading. Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that we have enough money to clean up? So it would depend on why I'm doing it. I don't think I could answer that question without the why and the why would be the first thing I would think about. Q (BY MR. SMYSER) Okay. If the why were to determine whether or not the contamination complied with an appropriate legal standard for the level of contamination in that area, how would you go about selecting a standard? MR. SELEY: Objection. Calls for speculation. Incomplete hypothetical. A It depends on what my familiarity would be with the legal standards and the legal the regulatory standards. In the U.S., for example, I think I have enough experience that I think I would, depending on the contamination situation, I think I would know which standards apply. In a place like Ecuador, I would have to get that information from attorneys as to what standards apply. Q (BY MR. SMYSER) Okay. And in this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that quote? A Yes, I do. Q Based on your work, background, training and experience, did you form an opinion as to whether the operator, Texaco, adopted all the necessary measures for the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. Calls for expert testimony. Calls for speculation. Lacks foundation. No relevance. A Yes, I did. Q (BY MR. SMYSER) And what was your opinion? MR. SELEY: Same objections. A My opinion is that Texaco as the operator did not adopt all necessary measures. Q (BY MR. SMYSER) For the protection of the flora, fauna and other natural resources? MR. SELEY: Objection. A Correct, and to prevent the pollution of the water, the atmosphere, and the land. MR. SELEY: Objection. Leading. Move to

57 (Pages 222 to 225)

	226		228
1	or not Texaco as operator adopted all necessary	1	facilities. No testing is conducted on the
2	measures to prevent pollution of the water,	2	wastewater prior to disposal into the river, except
3	atmosphere and the land?	3	at Shushufindi where wastewater bioacid testing has
4	MR. SELEY: Objection. Leading. Calls	4	been conducted since 1990.
5	for expert testimony. Lacks foundation and	5	Is that consistent with what you learned
6	speculation.	6	during your work and examination of these camps and
7	A Yes, I did have an opinion about that.	7	the streams?
8	And my opinion was that they did not adopt all	8	MR. SELEY: Objection. Lacks foundation.
9	necessary measures to prevent pollution of the water,	9	Misstates facts. Calls for speculation. Calls for
10	the atmosphere and the land.	10	expert testimony.
11	MR. SELEY: Move to strike.	11	A Yes, this is consistent both with what I
12	Q (BY MR. SMYSER) Let's go to the next	12	learned about how waste was handled, in that it was
13	page, if we could, 5-10. The second entry for 5-10	13	not treated and dumped directly into streams and
14	is regarding the sewage at Lago Agrio. Do you see	14	rivers. And also I don't recall seeing any data
15	that?	15	other than the data we've talked about already today
16	A Yes.	16	on the nature of that waste, the toxicity or its
17	Q And it says, prior to this, 1992, sewage	17	suitability for discharge. I don't recall there
18	was released on land or stored in pits that emptied	18	being any monitoring or testing.
19 20	into the local river, end quote.	19 20	Q Just to be clear
20 21	What sewage does that have reference to,	20	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm sorry. Just to be
22	do you know?	22	
23	MR. SELEY: Objection. Calls for speculation.	23	clear, the waste we're talking about here, we are not just talking about oil field waste. We're talking
24	A I don't remember. I would have to go back	24	about waste from the laundry, car wash and sewage; is
25	to the report and look. I do recall that the report	25	that right?
			v
	227		229
	227		
1	had information about the camps or the places where	1	MR. SELEY: Objection. Lacks foundation.
2	had information about the camps or the places where workers stayed, but I don't remember if this is	2	MR. SELEY: Objection. Lacks foundation. Calls for speculation.
2 3	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not.	2 3	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this
2 3 4	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10,	2 3 4	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources.
2 3 4 5	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste	2 3 4 5	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental
2 3 4	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included	2 3 4	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you
2 3 4 5 6	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry,	2 3 4 5 6	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate
2 3 4 5 6 7	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included	2 3 4 5 6 7	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you
2 3 4 5 6 7 8	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface	2 3 4 5 6 7 8	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to
2 3 4 5 6 7 8 9	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains.	2 3 4 5 6 7 8 9	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and
2 3 4 5 6 7 8 9 10	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection	2 3 4 5 6 7 8 9	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador?
2 3 4 5 6 7 8 9 10 11	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater	2 3 4 5 6 7 8 9 10 11	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert
2 3 4 5 7 8 9 10 11 12	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco?	2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for
2 3 4 5 6 7 8 9 10 11 12 13	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation.	2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that.
2 3 4 5 6 7 8 9 10 11 12 13 14	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. Q Okay. Let's continue with that paragraph. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not environmentally responsible.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. Q Okay. Let's continue with that paragraph. These streams are either diverted back to the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not environmentally responsible. MR. SELEY: Move to strike as improper
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. Q Okay. Let's continue with that paragraph. These streams are either diverted back to the produced water system or collected in a system of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not environmentally responsible. MR. SELEY: Move to strike as improper expert testimony.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. Q Okay. Let's continue with that paragraph. These streams are either diverted back to the produced water system or collected in a system of ditches throughout the camp which discharge into 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not environmentally responsible. MR. SELEY: Move to strike as improper expert testimony. Q (BY MR. SMYSER) If you would look at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 had information about the camps or the places where workers stayed, but I don't remember if this is referring to that or not. Q (BY MR. SMYSER) Let's go down to 5.10, the large block of type there. It says that waste water streams from the stations and camps included produced water, sewage, wash water from the laundry, and car wash, runoff from the process area, surface drains, and floor drains. Does that help refresh your recollection as to whether or not we're talking about wastewater from the stations and camps owned by Texaco? MR. SELEY: Objection. Lacks foundation. A Certainly in that sentence we are talking about that. I would have to go back to the sequence of paragraphs and sentences to see Q (BY MR. SMYSER) Okay. A if that's referring to that in the prior sentence we were talking about. Q Okay. Let's continue with that paragraph. These streams are either diverted back to the produced water system or collected in a system of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Lacks foundation. Calls for speculation. A That's right. That's included in this list of the waste sources. Q (BY MR. SMYSER) And as an environmental scientist, would it have been appropriate did you form an opinion as to whether it would be appropriate for a company like Texaco operating a plant to discharge its sewage, wash water from its laundry and car wash into the drains and streams of Ecuador? MR. SELEY: Objection. Calls for expert testimony. Leading. Lacks foundation. Calls for well, let's leave it at that. A I don't I don't have an opinion about raw, untreated discharge from a car wash or a laundry. I don't know enough about what that looks like and the chemicals. But raw sewage, it is my opinion that dumping raw sewage into rivers and streams is not environmentally responsible. MR. SELEY: Move to strike as improper expert testimony.

58 (Pages 226 to 229)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	230		232
1	that consistent with what you found during your work	1	MR. SELEY: Move to strike.
2	on this project?	2	Q (BY MR. SMYSER) On 5-11, the next
3	MR. SELEY: Objection. Calls for expert	3	paragraph you say, numerous creeks you don't say,
4	testimony.	4	pardon me, the report says and you've selected this
5	A Yes. I don't recall seeing any	5	quote. Numerous creeks and rivers flow through the
6	groundwater monitoring data or evidence of a program	6	concession area, produced water, runoff from vehicle
7	in place while Texaco was operating.	7	and equipment washing, surface runoff from releases
8	Q (BY MR. SMYSER) If you would turn to the	8	from stations, as well as outflow from pits diverted
9	next page. Look at the top of that page. It's	9	or discharged into these streams.
10	titled re sewage at Auca station	10	Was that consistent with what you saw
11	A I'm sorry to interrupt. Can we take	11	yourself when you were working on this project?
12	another little break?	12	MR. SELEY: Objection. Lacks foundation.
13	Q Sure, of course.	13	A Yes, I saw numerous creeks and rivers as
14	THE VIDEOGRAPHER: We're off the record at	14	this quote describes, and I also saw instances
15	3:46.	15	where where outflow from pits through the pipes
16	(Recess taken from 3:46 p.m. to 3:58 p.m.)	16	that we talked about before was discharged into the
17	THE VIDEOGRAPHER: Back on the record at	17	streams.
18	3:58. Starting disk five.	18	I can't say that I've seen personally
19	Q (BY MR. SMYSER) Mr. Beltman, when we took	19	well, I haven't seen produced water discharged into
20	a break, I was directing your attention to the	20	streams of course because Petroecuador reinjects all
21	memorandum you prepared for Mr. Donziger regarding	21	of it.
22	your selection of quotes from the, I believe it was	22	I can't say I've seen runoff from vehicle
23	one of the two reports, the ABT (sic) AGRA report.	23	and equipment washing either. I have seen the
24	Do you remember that?	24	surface runoff from the Sacha Central station that we
25	A I do. HBT.	25	talked about earlier.
	231		233
1	Q Sorry, HBT.	1	MR. SELEY: Move to strike.
2	A To be accurate, yes.	2	Q (BY MR. SMYSER) If you'll look down that
3	Q And we were talking about the quote you	3	page to 5-14, the third quote on 5-14, where it says,
4	had at 5-10 re the sewage at the Auca station at the	4	prior to 1990 (drilling) muds containing lithium
5	top right there. And the quote says: At Auca the	5	sulfur and other heavy metals were disposed of in
6	sewage stream is designed so that it flows into a	6	sump pits.
7	cistern and then is released into the jungle. The	7	What are sump pits?
8	sewage effluent is not analyzed before release.	8	MR. SELEY: Objection. Calls for
9	Based on your experience as an	9	speculation.
10	environmental scientist, was that an appropriate way	10	A I don't know what they're referring to
11	to handle sewage from the Auca station?	11	specifically here, but my understanding from how the
12	MR. SELEY: Objection. Calls for expert	12	oil field is operated is that that's what I was
13	testimony. Calls for speculation. Lacks foundation	13	calling pits earlier. So a sump pit or a pit is
14	and no relevance to count 9. And if you don't mind,	14	these pits at the well sites where Texaco dumped
15	I have a continuing objection on relevance.	15	things like drilling muds.
16	A Yes, I did.	16	MR. SELEY: Move to strike everything
17	Q (BY MR. SMYSER) And what was your opinion	17	after I don't know.
18	about that?	18	Q (BY MR. SMYSER) And what is lithium
19 20	A My opinion, I can't say my opinion is	19	sulfur, if you know?
20	specific to the practices at the Auca station, but	20	A I know what lithium is. It's an element.
21 22	after reading through all this audit report, I do	21	I know what sulfur is. It's an element. I'm not
22	recall the opinion that the way that Texaco handled	22 23	familiar with lithium sulfur together.
23 24	their sewage at all of their stations was	23	Q Okay. Let's go down to the last quote, if
11 ⁴ ⁻	environmentally irresponsible. It would cause		we could. 5-15. The quote selected says, in all
25	pollution in the environment.	25	cases activities likely to cause contamination were

59 (Pages 230 to 233)

	234		236
1	identified from pre 1990 operational practices.	1	if they're summaries, it would have been an easy way
2	Therefore the consortium field oil operations prior	2	through cut and paste to highlight for Mr. Donziger
3	to 1990 were potentially not in compliance with	3	some of the key findings of the audit.
4	Ecuadorian law and regulations.	4	Q Okay. Let's look at the first page there.
5	My question to you is, did you form an	5	And I'm not sure quite what it says. It says
6	opinion at the time, during your work on this matter,	6	wastewater, waterways water discharges, local river
7	as to whether or not the operations prior to 1990	7	used for, what is that word?
8	when Texaco was the operator were potentially not in	8	A Potable.
9	compliance with Ecuadorian law and regulations?	9	Q Oh, potable, and processed water. What
10	MR. SELEY: Objection. Calls for expert	10	does that mean?
11	testimony. Calls for legal conclusions. Calls for	11	MR. SELEY: Objection. Calls for
12	speculation. Lacks foundation.	12	speculation.
13	A I don't recall specifically forming	13	A Potable means potable water means
14	opinions on the topic of compliance with the	14	potable water is drinking water. So that means the
15	regulations. That wasn't one of the things that I	15	local river is used for drinking water.
16	was asked to evaluate. Certainly the information I	16	MR. SELEY: Move to strike.
17	looked at and the opinions I developed had to do with	17	Q (BY MR. SMYSER) And if you look down the
18	Texaco's operations being substandard and causing	18	page, it says surface runoff discharged into local
19	environmental pollution. But compliance with laws	19	streams. Would those be the same streams that were
20	and regulations within Ecuador at the time, I didn't	20	used for potable water?
21 22	focus on that.	21 22	MR. SELEY: Objection. Calls for
22	Q (BY MR. SMYSER) Okay. Let's go to the	22	speculation. No foundation.
23 24	next page of your memo, the next three or four pages. And they seem to be a facsimile reproduction of	24	A I don't know what they're referring to specifically here, but from what I have seen, the
25	perhaps sections from the report.	25	streams that run along and near processing facilities
	235		237
1	Do you remember that?	1	and well sites where contamination from say surface
2	Do you remember that? A I do remember this. What these actually	2	and well sites where contamination from say surface runoff would end up are the same streams that people
2 3	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a	2 3	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And
2 3 4	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an	2 3 4	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those
2 3 4 5	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe	2 3 4 5	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources.
2 3 4 5 6	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied	2 3 4 5 6	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything
2 3 4 5 6 7	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are	2 3 4 5 6 7	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know.
2 3 4 5 6 7 8	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report.	2 3 4 5 6 7 8	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the
2 3 4 5 6 7 8 9	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut	2 3 4 5 6 7 8 9	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal
2 3 4 5 6 7 8	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted?	2 3 4 5 6 7 8 9	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river?
2 3 4 5 6 7 8 9 10	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut	2 3 4 5 6 7 8 9	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal
2 3 4 5 6 7 8 9 10 11	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct.	2 3 4 5 6 7 8 9 10 11	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger?	2 3 4 5 6 7 8 9 10 11 12	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct.	2 3 4 5 6 7 8 9 10 11 12 13	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says.
2 3 4 5 6 7 8 9 10 11 12 13 14	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your	2 3 4 5 6 7 8 9 10 11 12 13 14	and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is because again this was an electronic version. And I wouldn't have been drawing outlines like that on an electronic version.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes, that's consistent. Q (BY MR. SMYSER) It also indicates no
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is because again this was an electronic version. And I wouldn't have been drawing outlines like that on an electronic version. Q (BY MR. SMYSER) Okay. Why did you select	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes, that's consistent. Q (BY MR. SMYSER) It also indicates no testing prior to discharge of wastewater. Was that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is because again this was an electronic version. And I wouldn't have been drawing outlines like that on an electronic version. Q (BY MR. SMYSER) Okay. Why did you select these pages to send to Mr. Donziger, if you remember?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes, that's consistent. Q (BY MR. SMYSER) It also indicates no testing prior to discharge of wastewater. Was that consistent with what you learned when you worked on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is because again this was an electronic version. And I wouldn't have been drawing outlines like that on an electronic version. Q (BY MR. SMYSER) Okay. Why did you select these pages to send to Mr. Donziger, if you remember? A I don't recall exactly. What these tables	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes, that's consistent. Q (BY MR. SMYSER) It also indicates no testing prior to discharge of wastewater. Was that consistent with what you learned when you worked on the project?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you remember that? A I do remember this. What these actually are this is a Word document we're looking at, a hard copy of a Word document. And I had an electronic version of the HBT AGRA report, Adobe Acrobat, so I just highlighted some pieces and copied them directly into the Word document. So these are cut and paste straight out of the HBT AGRA report. Q Okay. So instead of quoting, you just cut and pasted? A Correct. Q And sent that to Mr. Donziger? A Correct. Q And I take it the underlining is your underlining? MR. SELEY: Objection. Leading. A I don't think it is. I don't think it is because again this was an electronic version. And I wouldn't have been drawing outlines like that on an electronic version. Q (BY MR. SMYSER) Okay. Why did you select these pages to send to Mr. Donziger, if you remember?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 and well sites where contamination from say surface runoff would end up are the same streams that people bathe in and wash their clothes in and swim in. And from what I've read, they also, some people use those as their drinking water sources. MR. SELEY: Move to strike everything after I don't know. Q (BY MR. SMYSER) And it indicates that the sewage was not tested or treated prior to disposal into a river? MR. SELEY: Objection. Calls for speculation. A That's right, that's what it says. Q (BY MR. SMYSER) And was that consistent with what you learned as you worked on the project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes, that's consistent. Q (BY MR. SMYSER) It also indicates no testing prior to discharge of wastewater. Was that consistent with what you learned when you worked on

60 (Pages 234 to 237)

	238		240
1	Texaco did any testing of any discharges.	1	next sentence, and I realize this also may be
2	Q (BY MR. SMYSER) Let's go over several	2	something that you didn't personally observe, but
3	pages to well site management. The top of it says	3	I'll ask you anyway. It says spraying of lease roads
4	well site management on the left-hand side.	4	with crude oil, no tank bottoms.
5	MR. SPALDING: Got it.	5	What does that mean?
6	Q (BY MR. SMYSER) And if you would go about	6	MR. SELEY: Objection. Calls for
7	one-third of the way down, do you see the quote	7	speculation. Lacks foundation.
8	there, it says workover and completion fluids	8	A What that means to me is that they're
9	disposed of in on-site pits produced water disposed	9	summarizing the practice we talked about earlier
10	of into the jungle rivers.	10	where Texaco sprayed dirt roads with crude oil to
11	Is that consistent with what you,	11	keep the dust down in part. I've also seen documents
12	yourself, saw when you were working on the project?	12	saying it was a way to get rid of excess or waste
13	MR. SELEY: Objection. Calls for	13	oil, too.
14	speculation. Lacks foundation. No personal	14	MR. SELEY: Move to strike.
15	knowledge.	15	Q (BY MR. SMYSER) And if Texaco engaged in
16	A Again, I didn't see the produced water	16	that practice, was that in accord with industry
17	itself being disposed of into any jungle rivers since	17	standards at that time?
18	Petroecuador now reinjects. I did see in the past	18	MR. SELEY: Objection. Incomplete
19	where Texaco did dispose of produced water into	19	hypothetical. Calls for speculation. Calls for
20	jungle rivers. So I didn't see any evidence of this	20	expert testimony. Lacks foundation. And leading.
21	practice while it was happening, but I saw the	21	A I don't know. I don't think I looked at
22	evidence of the facilities when it did happen.	22	that practice specifically.
23	MR. SELEY: Move to strike.	23	Q (BY MR. SMYSER) Fair enough. If you look
24	Q (BY MR. SMYSER) Did you see evidence that	24	down the page, it says no protection of water
25	that practice had happened in the past?	25	resources. Do you see that quote?
	239		• • •
	239		241
1		1	241 A Yes.
1 2	MR. SELEY: Same objection. A That's kind of a hard question to answer.	1	
	MR. SELEY: Same objection.		A Yes.
2	MR. SELEY: Same objection. A That's kind of a hard question to answer.	2	A Yes.Q Did you form an opinion yourself in the
2 3	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large	2 3	A Yes.Q Did you form an opinion yourself in the course of your work on the project that would allow
2 3 4	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of	2 3 4	A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated
2 3 4 5	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I	2 3 4 5	A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report?
2 3 4 5 6	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking	2 3 4 5 6	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes.
2 3 4 5 6 7	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where	2 3 4 5 6 7	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion?
2 3 4 5 6 7 8	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged.	2 3 4 5 6 7 8	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right?	2 3 4 5 6 7 8 9	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I	2 3 4 5 6 7 8 9 10 11 12	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco
2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference	2 3 4 5 6 7 8 9 10 11 12 13	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources.
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I	2 3 4 5 6 7 8 9 10 11 12 13 14	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert testimony.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And incidentally, I take it these numbers are your effort
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes. All the evidence I've seen says that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And incidentally, I take it these numbers are your effort to put a signpost as to where the quote in general
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes. All the evidence I've seen says that Texaco dumped all their production water directly	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And incidentally, I take it these numbers are your effort to put a signpost as to where the quote in general might be found in the report?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes. All the evidence I've seen says that Texaco dumped all their production water directly into streams and rivers.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And incidentally, I take it these numbers are your effort to put a signpost as to where the quote in general might be found in the report?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Same objection. A That's kind of a hard question to answer. What I saw in person were were very large discharge pipes at processing stations. But of course I didn't see the water coming out because I wasn't there in the past, but I do know from looking at other information that those are the pipes where the water was discharged. Q Right? MR. SELEY: Move to strike the last clause. Q (BY MR. SMYSER) And I think that's why I tried to ask the question in a way that had reference to the past. Did you did you or did you not see evidence that in the past these pipes had been used to discharge produced water into the streams directly? MR. SELEY: Same objections. Calls for speculation. Lacks foundation. Calls for expert testimony. A Yes. All the evidence I've seen says that Texaco dumped all their production water directly	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A Yes. Q Did you form an opinion yourself in the course of your work on the project that would allow you to agree or disagree with that conclusion stated in this report? A Yes. Q And what was your opinion? MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. A My opinion is that the way that Texaco operated their oil field, not only provided no protection of water resources, but caused pollution of water resources. So it's I would go farther than just saying no protection. There actually was pollution caused by those activities. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let me ask you to go over several pages to 6-5, the page that starts 6-5. And incidentally, I take it these numbers are your effort to put a signpost as to where the quote in general might be found in the report?

61 (Pages 238 to 241)

212-267-6868

VERITEXT REPORTING COMPANY www.veritext.com

	242		244
1	sentence there that says, the concession is situated	1	note contaminants that had migrated beyond the
2	in an area that was essentially undisturbed	2	confines of a pit when you were doing your work on
3	rainforest prior to the development.	3	this project?
4	Is that consistent with your understanding	4	MR. SELEY: Objection. Calls for expert
5	of what the situation was in the rainforest prior to	5	testimony. Lacks foundation. And leading.
6	Texaco's arrival?	6	A Yes, there are data collected from, as
7	MR. SELEY: Objection. Calls for	7	it's worded here, beyond the confines of a pit that
8	speculation. Calls for expert testimony. Lacks	8	showed that there's contamination in those areas.
9	foundation.	9	Q (BY MR. SMYSER) If you would look down to
10	A Yes, it is.	10	6-13, the third 6-13 where it says well site spills
11	Q (BY MR. SMYSER) Was that your opinion at	11	have occurred at 158 of the 163 asset (sic) sites,
12	the time?	12	what do you understand that to mean?
13	MR. SELEY: Same objections. And vague.	13	MR. SELEY: Objection. Calls for
14	A Well, my opinion would be whether I	14	speculation. Lacks foundation.
15	don't know if I had an independent opinion. I've	15	Q (BY MR. SMYSER) I'm sorry. Excuse me.
16	seen other documentation that that was the case,	16	What did you understand at the time you selected this
17	but	17	quote to send to Mr. Donziger to mean?
18	Q (BY MR. SMYSER) Okay.	18	MR. SELEY: Objection. Calls for
19	A I haven't developed an independent opinion	19	speculation. Lacks foundation.
20	other than the things I've read.	20	A I see that I put a note in here after that
21	Q Okay. Well, did you have an understanding	21	quote and this would be my own writing that says,
22	at the time you were working down there that prior to	22	note, they only assessed 163 of the well and station
23	Texaco's arrival this was undisturbed rainforest?	23	sites but said it was a random sample. What that
24	MR. SELEY: Same objections.	24	tells me is that I was at that time identifying this
25	A Mostly. I do recall some mention of some	25	quote that as part of the audit, they audited not
	0.4.2		
	243		245
1	243 plantations in the area. I recall they're described	1	245 every single one of the sites that we've talked
1 2		1 2	
	plantations in the area. I recall they're described		every single one of the sites that we've talked
2	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes,	2	every single one of the sites that we've talked about, that they audited 163 of those sites.
2 3	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed.	2 3	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they
2 3 4	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to	2 3 4	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites.
2 3 4 5 6 7	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the	2 3 4 5	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike.
2 3 4 5 6 7 8	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm	2 3 4 5 6 7 8	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is
2 3 4 5 6 7 8 9	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production	2 3 4 5 6 7 8 9	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be
2 3 4 5 6 7 8 9 10	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well	2 3 4 5 6 7 8 9	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases.
2 3 4 5 6 7 8 9 10 11	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow	2 3 4 5 6 7 8 9 10 11	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time?
2 3 4 5 6 7 8 9 10 11 12	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines.	2 3 4 5 6 7 8 9 10 11 12	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your	2 3 4 5 6 7 8 9 10 11 12 13	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks
2 3 4 5 6 7 8 9 10 11 12 13 14	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement	2 3 4 5 6 7 8 9 10 11 12 13 14	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked at of the pits they looked at they found 126 that had
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've seen and with my understanding and opinions.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked at of the pits they looked at they found 126 that had oily waste. And in some cases they described the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've seen and with my understanding and opinions. Q (BY MR. SMYSER) The next 6-13 says, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked ato of the pits they looked at they found 126 that had oily waste. And in some cases they described the oily waste as confined to the pits and in some cases
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've seen and with my understanding and opinions. Q (BY MR. SMYSER) The next 6-13 says, spills which have migrated off the well sites and 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked atof the pits they looked at they found 126 that had oily waste. And in some cases they described the oily waste did that migrating beyond the pits.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've seen and with my understanding and opinions. Q (BY MR. SMYSER) The next 6-13 says, spills which have migrated off the well sites and contaminants which have migrated beyond the confines 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked ato of the pits they looked at they found 126 that had oily waste. And in some cases they described the oily waste as confined to the pits and in some cases
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 plantations in the area. I recall they're described as being fairly small scale. Other than that, yes, my understanding was it was undisturbed. Q (BY MR. SMYSER) If you would drop down to 6.12 on that page, the first one. The quote from the Texaco report, the report prepared for Texaco, I'm sorry, says: Oil field development and production activities have caused contamination of soil and water at locations throughout the concession. Contamination of soil and water was observed at well sites, production stations and along roadways, flow lines, and secondary pipelines. Could you tell us whether, based on your observation and work on this project, that statement comports with what you observed and found? MR. SELEY: Objection. Misstates facts. Calls for expert testimony. Calls for speculation. Lacks foundation. And leading. A Yes, that's consistent with the data I've seen and with my understanding and opinions. Q (BY MR. SMYSER) The next 6-13 says, spills which have migrated off the well sites and 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 every single one of the sites that we've talked about, that they audited 163 of those sites. And they themselves concluded that they saw spills at 158 of those sites. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's move to 6-15 down the page, the first 6-15. A total of 126 open or closed pits contain oily waste. Oily waste is confined within 50 of the pits and was found to be migrating in 76 cases. What did that mean to you at the time? MR. SELEY: Objection. Calls for speculation. Lacks foundation. The document speaks for itself. A I don't recall what I understood it to mean at the time. I think it's pretty straightforward. It probably meant to me then similar what it means now, is that they looked at of the pits they looked at they found 126 that had oily waste. And in some cases they described the oily waste as confined to the pits and in some cases they described it as migrating beyond the pits.

62 (Pages 242 to 245)

	246		248
1	It's the penultimate page of your memo to	1	report?
2	Mr. Donziger. And I direct your attention to the	2	A If it's not in quotes, then I am
3	section you wrote, pits at stations (they audited 80	3	paraphrasing or summarizing what the report is
4	of them).	4	saying. So here I'm saying that the report
5	Is that your writing?	5	determined that 41 percent of the well sites had a,
6	A Yes, that's my writing. It's not in	6	and the quote means, their term, high, unquote,
7	quotes, so I think that's my writing.	7	impact.
8	Q Right. In quotes is, oily sludge is	8	Q And what does high impact equal under
9	present in all of the pits, unquote.	9	their definition in the report?
10	Did you understand that to mean that oily	10	MR. SELEY: Objection. Calls for
11	sludge was present in all 80 of the pits that they	11	speculation. Lacks foundation. The report speaks
12	audited?	12	for itself.
13	MR. SELEY: Objection. Calls for	13	A In this in this passage I don't see
14	speculation. Lacks foundation.	14	a starting quote. I see an end quote. So I'm not
15	A Yeah, that note that I wrote is	15	sure of this the next two lines there, what's
16	identifying the quotes that followed to be specific	16	mine, if any, and what's theirs. But what it says
17	to the pits at stations, as distinguished from pits	17	here is that high impact is environmental damage that
18	at well sites.	18	may require extensive mitigative action or may be of
19	So pits at stations, they looked at 80 of	19	long-term duration before recovery. Contaminants
20	them, audited 80 of them. And it would have been my	20	appear to have migrated out of the pit.
21	understanding that all of the pits would refer to	21	Q (BY MR. SMYSER) Well, let me ask you
22	those 80.	22	MR. SELEY: Move to strike everything
23	Q (BY MR. SMYSER) The next quote says,	23	after what's theirs.
24	produced water is being discharged to the environment	24	Q (BY MR. SMYSER) Let me ask you, that
25	in all cases.	25	quote or that word, environmental damage that may
	247		249
			215
1	Is that consistent with what your	1	require extensive mitigative action or may be of
1 2	Is that consistent with what your understanding was	1 2	
	understanding was MR. SELEY: Objection.	1	require extensive mitigative action or may be of
2 3 4	understanding was	2 3 4	require extensive mitigative action or may be of long-term duration before recovery, contaminants
2 3	understanding was MR. SELEY: Objection.	2 3 4 5	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was
2 3 4 5 6	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled	2 3 4 5 6	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the
2 3 4 5 6 7	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation.	2 3 4 5 6 7	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my	2 3 4 5 6 7 8	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert
2 3 4 5 6 7 8 9	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding.	2 3 4 5 6 7 8 9	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading.
2 3 4 5 6 7 8 9	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is	2 3 4 5 6 7 8 9 10	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my
2 3 4 5 6 7 8 9 10 11	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge	2 3 4 5 6 7 8 9 10 11	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I
2 3 4 5 7 8 9 10 11 12	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases.	2 3 4 5 6 7 8 9 10 11 12	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations
2 3 4 5 6 7 8 9 10 11 12 13	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed	2 3 4 5 6 7 8 9 10 11 12 13	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my
2 3 4 5 6 7 8 9 10 11 12 13 14	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time?	2 3 4 5 6 7 8 9 10 11 12 13 14	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative
2 3 4 5 6 7 8 9 10 11 12 13 14 15	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls	2 3 4 5 6 7 8 9 10 11 12 13 14 15	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observation, certainly of long-term duration. I observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well. Q (BY MR. SMYSER) If you would go down to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference to table 6.6, which is a summary list of liability at
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well. Q (BY MR. SMYSER) If you would go down to 6-24, wherein you write, 41 percent of the well sites	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference to table 6.6, which is a summary list of liability at the pits. And we have a list of liabilities that you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well. Q (BY MR. SMYSER) If you would go down to 6-24, wherein you write, 41 percent of the well sites were determined to have, a quote, high, unquote, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference to table 6.6, which is a summary list of liability at the pits. And we have a list of liabilities that you quoted, it looks like individual quotes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well. Q (BY MR. SMYSER) If you would go down to 6-24, wherein you write, 41 percent of the well sites were determined to have, a quote, high, unquote, impact. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference to table 6.6, which is a summary list of liability at the pits. And we have a list of liabilities that you quoted, it looks like individual quotes. And the list begins with liabilities
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 understanding was MR. SELEY: Objection. Q (BY MR. SMYSER) of how Texaco handled produced water? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Yes, that was consistent with my understanding. Q (BY MR. SMYSER) The next part is contamination in soil and water below the discharge pipe was noted in all cases. Is that consistent with what you observed at the time? MR. SELEY: Objection. Leading. Calls for speculation. Lacks foundation. A It's consistent with my understanding. It's consistent with observations I've made myself as well. Q (BY MR. SMYSER) If you would go down to 6-24, wherein you write, 41 percent of the well sites were determined to have, a quote, high, unquote, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 require extensive mitigative action or may be of long-term duration before recovery, contaminants appear to have migrated out of the pit, was or was not consistent with what you observed and the opinions you reached at the time you were working on this project? MR. SELEY: Objection. Calls for speculation. Lacks foundation. Calls for expert testimony. And leading. A Yes, that is consistent with my observed oil still present at sites where operations stopped decades prior. And it's consistent with my understanding about requiring extensive mitigative action. Q (BY MR. SMYSER) Okay. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Let's go to 6-24, which is at the bottom of the page. And you have reference to table 6.6, which is a summary list of liability at the pits. And we have a list of liabilities that you quoted, it looks like individual quotes.

63 (Pages 246 to 249)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	250		252
1	the time as to whether or not liabilities associated	1	Q (BY MR. SMYSER) Okay. Let's shift gears
2	with the separation pits were generally rated as	2	here for a second now.
3	high?	3	(Exhibit 6 marked.)
4	MR. SELEY: Objection. Calls for	4	Q (BY MR. SMYSER) Let me hand you what has
5	speculation. Calls for expert testimony. Lacks	5	been marked as Exhibit 6.
6	foundation.	6	MR. SELEY: Do we need to keep holding on
7	A I don't recall if I did at the time or	7	to 5, or are we moving on?
8	not.	8	MR. SMYSER: I'm sorry?
9	Q (BY MR. SMYSER) The next quote says,	9	MR. SELEY: Are we still holding on to 5
10	widespread contamination of land below discharge.	10	or
11	Did you have an opinion at the time as to whether or	11	MR. SMYSER: No, we're done with 5.
12	not that was accurate?	12	Q (BY MR. SMYSER) Can you generally
13	MR. SELEY: Objection. Calls for	13	identify this for us, please?
14	speculation. Lacks foundation. Calls for expert	14	A This is what I think is a portion of a
15	testimony.	15	report that Stratus prepared at the request of our
16	A This, the way this particular phrase, the	16	clients, the plaintiff attorneys. And I was involved
17	widespread contamination of land below discharge, I	17	in the preparation of this report.
18	don't recall having any reason to not believe that as	18	Q You were or were not involved?
19	their conclusion or to question their audit. I don't	19	A I was.
20	recall having any separate basis or opinion for that	20	Q Okay.
21	statement, other than what's in the audit.	21	A The copy I have, it looks like chapter 2
22	Q (BY MR. SMYSER) The next observation that	22	is incomplete.
23	you quote is contamination of channel below	23	Q I'll represent to you that I think there
24 25	discharge. Did you have an opinion at the time as to	24 25	are other pages missing from this copy of the report.
25	whether or not that was accurate?	25	This is the copy we obtained from the record in
	251		253
1	MR. SELEY: Objection. Calls for	1	Ecuador. And let me in that regard
2	speculation. Lacks foundation. Calls for expert	2	A Okay.
3	to at the area of		2
	testimony.	3	Q let me direct you to the stamp on the
4	A I don't know. I would have to go I	4	Q let me direct you to the stamp on the front. Do you see that stamp down there?
5	A I don't know. I would have to go I mean, it sounds like it's referring to a specific	4 5	Q let me direct you to the stamp on thefront. Do you see that stamp down there?A I do.
5 6	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know	4 5 6	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says?
5 6 7	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a	4 5 6 7	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de
5 6 7 8	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had	4 5 6 7 8	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios.
5 6 7 8 9	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not.	4 5 6 7 8 9	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right.
5 6 7 8 9 10	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you,	4 5 7 8 9 10	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior
5 6 7 8 9 10 11	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary	4 5 7 8 9 10 11	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer.
5 6 7 8 9 10 11 12	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger.	4 5 7 8 9 10 11 12	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt
5 6 7 8 9 10 11 12 13	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there 	4 5 7 8 9 10 11 12 13	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you.
5 6 7 8 9 10 11 12 13 14	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of 	4 5 7 8 9 10 11 12 13 14	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of
5 6 7 8 9 10 11 12 13 14 15	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they 	4 5 7 8 9 10 11 12 13 14 15	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and
5 6 7 8 9 10 11 12 13 14 15 16	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I 	4 5 7 8 9 10 11 12 13 14 15 16	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's
5 6 7 8 9 10 11 12 13 14 15	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they 	4 5 7 8 9 10 11 12 13 14 15	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and
5 6 7 8 9 10 11 12 13 14 15 16 17	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I
5 6 7 8 9 10 11 12 13 14 15 16 17 18	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, it points out what the audits concluded about sources	4 5 7 8 9 10 11 12 13 14 15 16 17 18	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I don't know what that is.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, it points out what the audits concluded about sources of contamination into the environment from Texaco	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I don't know what that is. Q Okay. I'll represent to you, if you look
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, it points out what the audits concluded about sources of contamination into the environment from Texaco operations. 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I don't know what that is. Q Okay. I'll represent to you, if you look at the certification on the last page, that those
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, it points out what the audits concluded about sources of contamination into the environment from Texaco operations. Q And these were conclusions made by an 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I don't know what that is. Q Okay. I'll represent to you, if you look at the certification on the last page, that those pages are concerning the translation of the document
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A I don't know. I would have to go I mean, it sounds like it's referring to a specific channel and maybe a specific discharge. I don't know if I had an opinion about if it is referring to a specific channel or discharge. I don't know if I had an opinion about that or not. Q (BY MR. SMYSER) Okay. Let me ask you, incidentally, why you quoted this list of, summary list of liabilities of pits for Mr. Donziger. A Well, in looking through this list, there is quite a few quite a few problems, sources of contamination that the audits identified when they summarized what they call their liability. And I highlighted these for Mr. Donziger, because, again, it points out what the audits concluded about sources of contamination into the environment from Texaco operations. Q And these were conclusions made by an auditor hired by Texaco? 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q let me direct you to the stamp on the front. Do you see that stamp down there? A I do. Q Can you read what it says? A It looks like H. Corte Provincial de Justicia Secretary of Presidencia Sucumbios. Q Right. A I'm sorry, if I could complete my prior answer. Q Oh, I'm sorry, I didn't mean to interrupt you. A I don't recognize the last three pages of what I have or four, it starts annex L 13 and something about Secretary of State and geotech's translations, I don't recognize those three pages. I don't know what that is. Q Okay. I'll represent to you, if you look at the certification on the last page, that those pages are concerning the translation of the document from English into Spanish for filing in the Court.

64 (Pages 250 to 253)

	254		256
1	A I'll accept your representation.	1	to the operations as a whole.
2	Q Okay. Fair enough. And if you thumb	2	Q Fair enough.
3	through that, you will see that every page we have	3	MR. SELEY: Move to strike everything
4	here is stamped from the Court.	4	after I don't recall this report.
5	MR. SMYSER: Do we have a color copy of	5	Q (BY MR. SMYSER) If you would look at the
6	this?	6	introduction. And you'll indicate that it well,
7	Q (BY MR. SMYSER) Now, the reason I gave	7	do you see the description of Texaco's lack of
8	you this copy, we have a copy, a complete copy of the	8	environmental controls on the discharge of waste to
9	report, but this is the copy that we have, at any	9	the environment?
10	rate, that was filed in the court in Ecuador. Are	10	MR. SELEY: Objection. Leading.
11	you with me?	11	A Sorry, which facts? Can you repeat the
12	A Yes.	12	question, please?
13	Q And I guess one of the things we discussed	13	Q (BY MR. SMYSER) Sure. Let's look at the
14	earlier, here is a complete copy for your reference	14	introduction. Would you read the introduction to
15	if you would care to look at that one. But I would	15	yourself, please.
16	prefer to direct your attention, if I might, to	16	A Okay.
17	for a little bit to the court copy.	17	Q Does that refresh your recollection as to
18	We discussed earlier whether or not any of	18	the purpose of this report?
19	Stratus' work had been filed with the Court. Do you	19	A Somewhat, yes.
20	recall that conversation?	20	Q Okay. And what is your understanding of
21	A Yes.	21	what the purpose of the report was?
22	Q And I think you can see by the marks down	22	MR. SELEY: Objection. Calls for
23	here that at least this document was filed with the	23	speculation.
24 25	Court?	24 25	A The reason I said somewhat is that it
25	A Well, I don't know what that stamp is so I	25	doesn't refresh my recollection beyond what is
	255		
			257
1	can't say that that means to me that it's been filed	1	written here. And what is written here is that
2	can't say that that means to me that it's been filed with the Court. But if you represent that, I'll	2	written here. And what is written here is that it's the report is describing the results of data,
2 3	can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it.	2 3	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental
2 3 4	can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is	2 3 4	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the
2 3 4 5	can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files.	2 3 4 5	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide
2 3 4 5 6	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. 	2 3 4 5 6	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental
2 3 4 5 6 7	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of 	2 3 4 5 6 7	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and
2 3 4 5 6 7 8	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? 	2 3 4 5 6 7 8	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession.
2 3 4 5 6 7 8 9	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago 	2 3 4 5 6 7 8 9	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything
2 3 4 5 6 7 8 9	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station 	2 3 4 5 6 7 8 9	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here.
2 3 4 5 6 7 8 9 10 11	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. 	2 3 4 5 6 7 8 9 10 11	written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this
2 3 4 5 6 7 8 9	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm 	2 3 4 5 6 7 8 9	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites?
2 3 4 5 6 7 8 9 10 11 12	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers 	2 3 4 5 6 7 8 9 10 11 12	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes.
2 3 4 5 6 7 8 9 10 11 12 13	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in 	2 3 4 5 6 7 8 9 10 11 12 13	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites?
2 3 4 5 6 7 8 9 10 11 12 13 14	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers 	2 3 4 5 6 7 8 9 10 11 12 13 14	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at it now, it does look like there are parts of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at it now, it does look like there are parts of chapter 1 that apply to all of Texaco's operation. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars? MR. SELEY: Objection. Calls for speculation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at it now, it does look like there are parts of chapter 1 that apply to all of Texaco's operation. There's a map of the concession. There's a map of 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars? MR. SELEY: Objection. Calls for speculation. A I don't recall.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at it now, it does look like there are parts of chapter 1 that apply to all of Texaco's operation. There's a map of the concession. There's a map of all the oil wells. There's an overview of Chevron-Texaco's waste management practices. After chapter 1, based on the table of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars? MR. SELEY: Objection. Calls for speculation. A I don't recall. Q (BY MR. SMYSER) Do you recall whether or not these sites provide examples of the nature and degree of environmental contamination that occurs at the set of the nature and degree of environmental contamination.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 can't say that that means to me that it's been filed with the Court. But if you represent that, I'll accept it. Q Okay. I'll represent to you that this is a copy we obtained from the court files. A Okay. Thank you. Q Now, the report was what's the title of this report? A History of Contamination at Oil Well Lago Agrio 11A, Oil Well Sacha 94 and Production Station Aguarico in the Napo Concession, Ecuador. Q Okay. So this is not a report, if I'm correct, and correct me if I'm incorrect, that covers all of the Texaco wells and production stations in the Napo concession, and it says limited to, it looks like, two oil wells and one production station? A I don't recall this report, but looking at it now, it does look like there are parts of chapter 1 that apply to all of Texaco's operation. There's a map of the concession. There's a map of all the oil wells. There's an overview of Chevron-Texaco's waste management practices. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 written here. And what is written here is that it's the report is describing the results of data, the results of investigations of the environmental contamination at the three sites that are in the title. And it says these are intended to provide examples of the nature and degree of environmental contamination that occurs at the well sites and processing stations throughout the concession. MR. SELEY: Move to strike everything after beyond what is written here. Q (BY MR. SMYSER) And the results from this report focus on three sites? A Yes. MR. SELEY: Objection. Calls for speculation. Q (BY MR. SMYSER) And why were these sites selected as exemplars? MR. SELEY: Objection. Calls for speculation. A I don't recall. Q (BY MR. SMYSER) Do you recall whether or not these sites provide examples of the nature and

65 (Pages 254 to 257)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	258		260
1	MR. SELEY: Objection. Calls for	1	MR. SELEY: Objection. The document
2	speculation.	2	speaks for itself.
3	A I don't recall that or not. This report	3	A Oil exploration and production operations
4	was written in 2007. It was fairly early on in our	4	by Chevron-Texaco have contaminated the well sites
5	evaluation of the data. And I don't know if I've	5	and production stations with high concentrations of
6	ever looked at the data from these three sites in the	6	petroleum hydrocarbons, individual chemical compounds
7	overall context of the whole concession since then.	7	contained within crude oil, such as PAHs, metals
8	Q (BY MR. SMYSER) I think you said earlier	8	associated with oil production and salinity. The
9	you were involved in the preparation of this report	9	full nature and extent of the contamination has not
10	or review of it?	10	been delineated at any of the three site studied.
11	A Yes.	11	Nevertheless, the available data show that waste
12	Q Okay. At the time you prepared it, did	12	pits, multiple areas around the sites, groundwater
13	you include information in this report that you	13	beneath the sites and wetlands and streams in the
14	believed to be true and accurate?	14	vicinity of the sites are all contaminated. The data
15	MR. SELEY: Objection.	15	also show previous efforts by Chevron-Texaco to clean
16	A Yes.	16	up the contamination have not been successful and
17	Q (BY MR. SMYSER) Do you stand by this	17	that people living in the vicinity of these sites can
18	report today?	18	be exposed to high concentrations of contaminants in
19	MR. SELEY: Objection. Calls for	19	the environment.
20	speculation. Lacks foundation.	20	Q (BY MR. SMYSER) Let me ask you if that
21	A I would have to read through the report	21 22	paragraph accurately reflects the opinions, general
22 23	carefully. There may be data, there may be	22	opinions, that you had at the time this report was
23 24	information that I'm aware of now that I wasn't aware	23	filed?
24 25	of at the time. I stand by this report as an accurate presentation of data and information	25	MR. SELEY: Objection. Calls for speculation. Calls for expert testimony. Leading.
23			
	259		261
1	available at that time. But whether there is		A I think that's kind of a hard question to
2	information, I know of or learned since that would	2	answer. I don't recall separate from what is written
3	make some of this incorrect or superseded, I don't	3	here what my opinions were. I don't recall in this
4	know.	4	document or any other writing opinions that were
5	Q (BY MR. SMYSER) Okay. Well, let me	5	inconsistent with what my true opinions were or
6 7	phrase my question differently then, if I might. Leaving apart the idea of whether subsequent data may	6	putting down in writing things that I thought were untrue.
8	come up that would replace this data, do you stand by	8	So I have no reason to think that those
9	the data in this report as being true and accurate at	9	weren't my opinions at the time. And if I've put it
10	the time the report was prepared and filed?	10	in the document, they would be, but I don't
11	MR. SELEY: Objection. Calls for	11	independently remember my opinions outside of what is
12	speculation. Lacks foundation. He already testified	12	written here.
13	he doesn't recall.	13	Q (BY MR. SMYSER) Okay. Let me ask it a
14	A Yes, yes. I stand by this report being	14	couple of other ways. I think you told us earlier
15	true and accurate representation of the data as we	15	that you were the overall manager of this project?
16	knew it at the time.	16	A Yes, I did.
17	MR. SELEY: Move to strike.	17	Q And I suspect this report would not have
18	Q (BY MR. SMYSER) Let me ask you to turn to	18	gone out without your imprimatur?
19	page 5 I'm sorry, section 5, which is at the end	19	A That's correct.
20	of the report, the summary and conclusions. Would	20	Q And would that summary conclusion
21	you read those summary and conclusions to yourself,	21	paragraph have gone out if it were not something you
22	please. Actually, when you finish reading the first	22	were in agreement with as an environmental scientist?
23	paragraph, would you read the second paragraph aloud	23	A No, not
24	for us, please.	24	MR. SELEY: Objection. Objection. Calls
25	A Yes.	25	for speculation, lacks foundation.

66 (Pages 258 to 261)

	262		264
1	A No, it would not have gone out.	1	as evidenced by the title and whatever you remember
2	Q (BY MR. SMYSER) Okay. And based on your	2	about the paper?
3	work, experience, education and background, and what	3	MR. SELEY: Objection. The document
4	you've testified to here today concerning, for	4	speaks for itself. Lacks foundation.
5	instance, your slide presentation, which was some	5	A This paper compares the practices in oil
6	three years later than this, do you have any reason	6	fields in the U.S. as reflected by industry standards
7	to believe that the general conclusions contained in	7	and regulations on how to dispose of oil field wastes
8	this report are or were in error?	8	with the practices that Texaco used in Ecuador.
9	MR. SELEY: Objection. Calls for expert	9	Q (BY MR. SMYSER) And we've discussed a
10	testimony. Calls for speculation. Lacks foundation	10	fair amount of those practices already; is that
11	and leading.	11	right?
12	A No, I have no reason to believe so.	12	A Yes.
13	Q (BY MR. SMYSER) Okay. And today you	13	Q Do you stand by the content of this paper
14	would stand by these general conclusions?	14	today?
15	MR. SELEY: Same objections. And	15	MR. SELEY: Objection. Speculation. It
16	relevance.	16	calls for speculation. Lacks foundation. Calls for
17	A Yes, I would.	17	improper expert testimony. And relevance.
18	MR. SMYSER: Let's do the papers.	18	A I have to qualify it similarly to the
19	(Exhibit 7 marked.)	19	previous paper. This at the time of the preparation,
20	Q (BY MR. SMYSER) Let me hand you what has	20	I stand by that this represents my analysis,
21	been marked as Exhibit 7. Can you identify this for	21	thoughts, and opinions. But whether I now have
22	us, please?	22	access or know other things that might make some of
23	A This is a document prepared by Stratus	23	this no longer correct or maybe slightly inaccurate,
24	Consulting. I was involved in the preparation of	24	I don't know. I would have to go through the paper
25	this document. I recall that the formatting of this	25	carefully.
	263		265
1	document may have had input from Steven Donziger so	1	Q (BY MR. SMYSER) Okay. I don't think we
2	that we may not be looking at the document exactly as	2	have time, unfortunately, to go through the paper
3	prepared by Stratus in terms of formatting, but the	3	carefully today. I would love to oblige you with
4	content was prepared by Stratus.	4	that.
5	Q Okay. And by formatting, what do you	5	If you would thumb through the paper and
6	mean?	6	let me ask you in general, the first section called
7	A The font type.	7	disposal of formation water, have you, to the extent
8	Q The bolding?	8	you remember, have you learned anything since this
9	A The bolding, the footnote. I don't recall	9	paper was published that would cause you to question
10	these types of formats as being prepared by Stratus.	10	the section called disposal of formation water?
11	And, yeah, that's what I mean.	11	MR. SELEY: Objection. Misstates facts.
12	Q Okay. But the content of the paper was	12	Calls for speculation. Lacks foundation.
13	Stratus or yours?	13	A I don't think so. But I would have to,
14	MR. SELEY: Objection. Leading.	14	again, review it carefully.
15	A Yes.	15	Q (BY MR. SMYSER) Okay. Let's look at the
16	Q (BY MR. SMYSER) What's the title of the	16	second section called use of reserve pits and the
17	paper?	17	same question.
18	A Chevron's Negligently Substandard Oil	18	MR. SELEY: Same objections.
19	Field Waste Disposal Practices in Ecuador.	19	Q (BY MR. SMYSER) Have you learned anything
20	Q Do you recall the time when this was	20	that you think would cause you to believe that that
21	written?	21	section is inaccurate?
22	A It would have been sometime between 2007	22	MR. SELEY: My apologies. Same
23	and 2010, but I don't remember more specifically when	23	objections.
24	that was.	24	A Based on a quick review, no, I can't think
25	Q What is the general content of this paper	25	of anything.

67 (Pages 262 to 265)

	266		268
1	Q (BY MR. SMYSER) Okay. Let's look at	1	in the concession.
2	section 3, documented contamination of U.S. oil	2	Q And did you author this document?
3	fields. Is there anything that you have learned	3	A Yes, I did.
4	subsequent to that which would cause you to question	4	Q Okay. And what was the purpose of the
5	whether or not section 3 was accurate?	5	document?
6	MR. SELEY: Objection. Calls for	6	A The purpose was to provide documentation
7	speculation. Lacks foundation.	7	about which sites we visited, along with some
8	A No, nothing I can think of right now.	8	background information as a way to describe where we
9	But, again, I've done only a quick review.	9	went on the site visit and what we saw.
10	Q (BY MR. SMYSER) Okay. And then section	10	Q Okay. This is an example of one of the
11	4, called Chevron's misleading claims about oil field	11	times you personally visited some of the sites in
12	pits in the U.S., is there anything you have learned	12	Ecuador?
13	since you wrote this that would cause you to question	13	A Yes.
14	the observations you made here?	14	Q Okay. Let me ask you just to look at one
15	MR. SELEY: Objection. Calls for	15	thing. Turn to page 4, if you would. And what well
16	speculation. Lacks foundation.	16	site are you investigating here?
17	A Nothing I can recall right now from a	17	MR. SELEY: Objection. Vague.
18	quick review of the content. However, from looking	18	A Under number 4?
19	at this, I do recall that I didn't write this section	19	Q (BY MR. SMYSER) Yes.
20	and I think you asked the question about when I	20	A This describes well site Shushufindi 38
21	wrote this. I recall that this was written by Jen	21	which we visited on this trip.
22	Peers, who is a scientist at Stratus Consulting.	22	Q Okay. And this was operated from when to
23	And I also recall that the authorship	23	when?
24	attribution to me alone I don't think was my	24	A According to
25	decision. I think that was Steven Donziger's.	25	MR. SELEY: Objection. Calls for expert
	267		269
1	267 Q Okay. So the authorship should include	1	269 testimony.
1 2		1 2	
	Q Okay. So the authorship should include		testimony.
2	Q Okay. So the authorship should include you and	2	testimony. A According to the memo here, it was
2 3	 Q Okay. So the authorship should include you and A Jen Peers. 	2 3	testimony. A According to the memo here, it was operated from 1975 to 1976.
2 3 4	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? 	2 3 4	testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you
2 3 4 5	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. 	2 3 4 5	testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct?
2 3 4 5 6	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? 	2 3 4 5 6	testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection.
2 3 4 5 6 7 8 9	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited 	2 3 4 5 6 7 8 9	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information.
2 3 4 5 6 7 8 9 10	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 	2 3 4 5 6 7 8 9 10	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in
2 3 4 5 6 7 8 9 10 11	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the 	2 3 4 5 6 7 8 9 10 11	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see
2 3 4 5 6 7 8 9 10 11 12	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done 	2 3 4 5 6 7 8 9 10 11 12	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in
2 3 4 5 6 7 8 9 10 11 12 13	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I 	2 3 4 5 6 7 8 9 10 11 12 13	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs?
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? MR. SMYSER: Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this pit during the trial?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? MR. SMYSER: Yes. Q (BY MR. SMYSER) Just briefly, can you 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this pit during the trial? MR. SELEY: Objection. Calls for expert
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? MR. SMYSER: Yes. Q (BY MR. SMYSER) Just briefly, can you describe that for us? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this pit during the trial? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? MR. SMYSER: Yes. Q (BY MR. SMYSER) Just briefly, can you describe that for us? A This is a memo that I prepared for Steven 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this pit during the trial? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Okay. So the authorship should include you and A Jen Peers. Q How do you spell Peers? A P-E-E-R-S. Q Okay. And she wrote section 4? A What I recall is that she did the research for section 4. She wrote the first draft of section 4. I probably I reviewed it and may have edited it, at which point authorship becomes, I think, harder to define. But she did the research and the first drafting of section 4. She may have also done a similar thing for other sections as well, but I can't recall specifically. Q Okay. (Exhibit 8 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman 8. MR. SELEY: Are we done with 7? MR. SMYSER: Yes. Q (BY MR. SMYSER) Just briefly, can you describe that for us? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 testimony. A According to the memo here, it was operated from 1975 to 1976. Q (BY MR. SMYSER) And do you, as far as you know, is your memo correct? MR. SELEY: Same objection. A As far as I know. We have a database of records of operation. And as far as I know, I used that database to come up with this information. Q (BY MR. SMYSER) Okay. Did you note in that visit that well, let me ask you, did you see visible evidence of pit contamination as reflected in those photographs? A Yes. Q That's someone skimming oil off the top of the pit? A Yes, in the right-most photograph there. Q Were you aware that during the trial Texaco found no contamination in its samples of this pit during the trial? MR. SELEY: Objection. Calls for expert testimony. Lacks foundation.

68 (Pages 266 to 269)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	270		272
1	MR. SELEY: Objection. Lacks foundation.	1	TCLP test that Texaco used during the cleanup of the
2	Misstates facts. Calls for speculation. Calls for	2	1990s to indicate when their cleanup was finished.
3	expert testimony.	3	It's a document that is based on content that I
4	A There certainly is contamination at this	4	prepared. I don't recall preparing this document
5	site. It's contamination that you can see, that you	5	itself.
6	can smell. We also know it is contamination because	6	This could be a document that Steven
7	during the trial the plaintiff experts collected	7	Donziger prepared based on material that I provided
8	samples from closer to this pit. And those samples	8	to him.
9	show high levels of oil contamination.	9	Q Do you know whether the content of the
10	Q Let me hand you now what has been marked	10	document is content that you provided?
11	as Beltman Exhibit 10.	11	MR. SELEY: Object. Calls for
12	MR. SELEY: Did we skip a number?	12	speculation. Lacks foundation. He just testified he
13	MR. SMYSER: I'm sorry, I didn't mean to	13	doesn't recognize it.
14	if I did.	14	A The scientific basis of what is described
15	MR. SELEY: The last one was 7.	15	in here, yes, that is content from work that I have
16	MR. SMYSER: 8. So this should be Beltman	16	done.
17	9. Can I borrow a pen? Somehow I've mislaid mine.	17	Q (BY MR. SMYSER) And was it accurate at
18	(Exhibit 9 marked.)	18	the time?
19	Q (BY MR. SMYSER) Thank you. Let me hand	19	MR. SELEY: Objection. Calls for expert
20	you what has been marked as Beltman 9. And can you	20	testimony. Relevance.
21	tell us quickly what Beltman 9 is?	21	A Yes, I believe it was accurate at the
22	A This is a memo I prepared at the request	22	time.
23	of Steven Donziger that describes the places we	23	(Exhibit 11 marked.)
24	visited on a site visit in November of 2008 with the	24	Q (BY MR. SMYSER) Okay. Let me hand you
25	congressional delegation of Representative McGovern.	25	now what has been marked as Beltman 11 and ask if you
	271		070
	271		273
1	Q Was this a congressional delegation from	1	can identify that, please.
1 2		1 2	
	Q Was this a congressional delegation from		can identify that, please.
2	Q Was this a congressional delegation from the United States?	2	can identify that, please. A This document also describes the TCLP test
2 3	Q Was this a congressional delegation from the United States?A Yes.	2 3	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation
2 3 4	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those 	2 3 4	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document.
2 3 4 5	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, 	2 3 4 5	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did.
2 3 4 5 6	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. 	2 3 4 5 6	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is
2 3 4 5 6 7 8 9	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, 	2 3 4 5 6 7	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a
2 3 4 5 6 7 8 9 10	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? 	2 3 4 5 6 7 8 9	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest
2 3 4 5 6 7 8 9 10 11	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. 	2 3 4 5 6 7 8 9 10 11	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1,
2 3 4 5 6 7 8 9 10 11 12	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, 	2 3 4 5 6 7 8 9 10 11 12	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary
2 3 4 5 6 7 8 9 10 11 12 13	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe 	2 3 4 5 6 7 8 9 10 11 12 13	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but 	2 3 4 5 6 7 8 9 10 11 12 13 14	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. (Exhibit 10 marked.) 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did work that went into this document as well, but again,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. (Exhibit 10 marked.) Q (BY MR. SMYSER) Let me hand you what has 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did work that went into this document as well, but again, whether what we see here is exactly as I wrote with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. (Exhibit 10 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman Exhibit No. 10. And ask if 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did work that went into this document as well, but again, whether what we see here is exactly as I wrote with Dr. Maest's help, I don't recall.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. (Exhibit 10 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman Exhibit No. 10. And ask if you could tell us if you could identify this for 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did work that went into this document as well, but again, whether what we see here is exactly as I wrote with Dr. Maest's help, I don't recall. Q Okay. And was did Texaco, in fact, use
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Was this a congressional delegation from the United States? A Yes. Q Okay. And you visited the site with those people? A Yes, I did. Q Okay. And to the best of your knowledge, was this authored by you? A Yes. Not all of the photographs are mine. And I had someone prepare the map at the end at my direction, but I authored the rest. Q And this, again, shows what you saw, tasted and smelled during one of your visits, maybe not tasted. I hope you weren't eating the soil, but this contains a report on what you saw, smelled, looked at during this visit? A That's correct. Q Fair enough. I'm through with this exhibit. (Exhibit 10 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman Exhibit No. 10. And ask if 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	can identify that, please. A This document also describes the TCLP test that Texaco used to determine when their remediation work was finished, similar to the prior document. The scientific content is based on work that I did. Ann Maest also did some of the research that is described in here. I don't recall if this is a document as we see it written verbatim by Dr. Maest and me or whether Steven Donziger or others made some changes to it. Q Would you look at the footnote on page 1, the first sentence of that which says, this summary was authored by Douglas Beltman with the assistance of Dr. Ann Maest both consultants of Stratus Consulting in Boulder, Colorado. Do you know whether that's accurate or not? A I certainly would claim authorship credit for it, but, again and I know that Dr. Maest did work that went into this document as well, but again, whether what we see here is exactly as I wrote with Dr. Maest's help, I don't recall.

69 (Pages 270 to 273)

	274		276
1	successful or whether additional cleanup work was	1	oily waste, the TCLP test can create problems if the
2	necessary?	2	oil in the soil with forms an emulsion with the
3	MR. SELEY: Objection. Vague.	3	water. In other words, since oil and water don't mix
4	A From the documents I've read about the	4	well, when you do this in the laboratory, it can
5	cleanup, yes, they did use the TCLPs test for that	5	produce conditions that don't give good results.
6	purpose.	6	MR. SELEY: Move to strike.
7	Q (BY MR. SMYSER) And did you have an	7	Q (BY MR. SMYSER) In the first sentence of
8	opinion as to whether or not this test was	8	the next paragraph, you state that the cleanup
9	appropriate in evaluating whether or not soil	9	standard that Texaco used, 1,000 milligrams per liter
10	contamination from oil waste had been completely	10	Total Petroleum Hydrocarbons in the TCLP test is so
11	remediated or not?	11	high that even if the soil were completely saturated
12	MR. SELEY: Objection. Calls for expert	12	with crude oil, it would pass the test.
13	testimony. Lacks foundation. Calls for speculation.	13	Is that your understanding at the time,
14	And relevance.	14	about the efficacy of the TCLP test in evaluating
15	A Yes, I did have an opinion about that.	15	whether a cleanup had been effectively accomplished?
16	Q (BY MR. SMYSER) And what was your	16	MR. SELEY: Objection. Calls for expert
17	opinion?	17	testimony.
18	MR. SELEY: Same objections.	18	A Yes.
19	A There are two parts to the opinion. One	19	(Exhibit 12 marked.)
20	is whether the TCLP test itself should be used. And	20	Q (BY MR. SMYSER) Let me hand you what has
21	the second is the standard that Texaco applied to the	21	been marked as Exhibit Beltman Exhibit 12 and ask
22	TCLP test results. So for the first part, the TCLP	22	if you can identify that for us, please.
23	test itself is not a measure of the petroleum content	23	A This document describes data and evidence
24	in soil. So if the objective is to determine whether	24	about Texaco's cleanup in the 1990s and reasons why
25	a cleanup has removed petroleum contamination from	25	that cleanup was ineffective and data showing why it
	275		277
			277
1	soil, it is inappropriate.	1	was ineffective.
1 2	soil, it is inappropriate. What the TCLP test does measure is	1 2	
			was ineffective.
2	What the TCLP test does measure is	2	was ineffective. The author, I'm identified as the author.
2 3	What the TCLP test does measure is contaminants that leach out of soil when soil is	2 3	was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this
2 3 4	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to	2 3 4	was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the
2 3 4 5 6 7	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions.	2 3 4 5 6 7	was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by
2 3 4 5 6 7 8	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit.	2 3 4 5 6 7 8	was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote.
2 3 4 5 6 7 8 9	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because	2 3 4 5 6 7 8 9	was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document?
2 3 4 5 6 7 8 9 10	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil	2 3 4 5 6 7 8 9	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup.
2 3 4 5 6 7 8 9 10 11	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand	2 3 4 5 6 7 8 9 10 11	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with
2 3 4 5 6 7 8 9 10 11 12	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test.	2 3 4 5 6 7 8 9 10 11 12	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even
2 3 4 5 6 7 8 9 10 11 12 13	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike.	2 3 4 5 6 7 8 9 10 11 12 13	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing.
2 3 4 5 6 7 8 9 10 11 12 13 14	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on	2 3 4 5 6 7 8 9 10 11 12 13 14	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point
2 3 4 5 6 7 8 9 10 11 12 13 14 15	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this project?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the document.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this project? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the document. A That's correct. That's actually another	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this project? MR. SELEY: Objection. Calls for speculation. Calls for an expert opinion. Lacks
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the document. A That's correct. That's actually another component I didn't talk about that in taking soils	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this project? MR. SELEY: Objection. Calls for speculation. Calls for an expert opinion. Lacks foundation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the document. A That's correct. That's actually another component I didn't talk about that in taking soils back to the lab and mixing it in water and then	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. Was that an accurate statement of your opinion at the time when you were working on this project? MR. SELEY: Objection. Calls for speculation. Calls for an expert opinion. Lacks foundation. A Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	What the TCLP test does measure is contaminants that leach out of soil when soil is taken back to the laboratory and subjected to specific conditions. The standard that was applied was 1,000 milligrams of TPH per liter of water once the water was mixed with soil in the lab and let sit. And that standard is inappropriate because it is impossible for this oil and these oil contaminated soils to ever exceed a thousand milligrams per liter of TPH in a TCLP test. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Okay. You indicate on the bottom of page 1, going over to the top of page 2 that the EPA, Environmental Protection Agency, recommended at the time that the test not be used for oily waste such as those in the Napo concession? MR. SELEY: Objection. Misstates the document. A That's correct. That's actually another component I didn't talk about that in taking soils	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 was ineffective. The author, I'm identified as the author. But, again, based on the format, I don't think this is a format the format that I produced the document in. It may be a format developed by Mr. Donziger. And I would have to read carefully to see if I could remember if this is verbatim what I wrote. Q What's the title of the document? A Chevron's phony cleanup. MR. SELEY: I object to foundation with regard to any of these questions here. He can't even identify if it's his writing. Q (BY MR. SMYSER) The first major point says Chevron's cleanup only addressed a small percentage of the problem. MR. SELEY: Objection. Calls for speculation. Calls for an expert opinion. Lacks foundation. A Yes.

70 (Pages 274 to 277)

	278		280
1	Was that your opinion at the time you	1	question. This is a document entitled Summary of
2	worked on this project?	2	Environmental Data on Oil Contamination in the Napo
3	MR. SELEY: Same objections and leading.	3	Concession.
4	A Yes.	4	The contents of this document are
5	Q (BY MR. SMYSER) The third heading says,	5	materials that I have prepared or people under my
6	evidence found during trial demonstrates that the	6	direction have prepared. It shows some of the same
7	remediated pits are not clean.	7	tables and graphs that we've looked at earlier.
8	Was that your opinion at the time?	8	I don't recall this format. I don't
9	MR. SELEY: Objection. Same objections	9	recall preparing the report in this format. So I
10	and leading.	10	can't say that what we see here is exactly as I
11	A Yes. When clean is defined by the 1,000	11	prepared it.
12	milligram per kilogram TPH Ecuadorian standard, yes,	12	Q I'm sorry?
13	that was my opinion.	13	A I can't say that what we see here is
14	Q (BY MR. SMYSER) Okay. The fourth heading	14	exactly as I prepared it.
15	is independent evidence confirms that the remediated	15	Q You were listed as the author of this
16	pits are not clean.	16	document. Is this one of those documents where the
17	What is the independent well, first,	17	content was prepared with you and other people at
18	was that a conclusion that you reached at the time?	18	Stratus?
19	MR. SELEY: Same objections.	19	MR. SELEY: Objection. Leading.
20	A Yes, it was.	20	Q (BY MR. SMYSER) Can you tell us whether
21	Q (BY MR. SMYSER) And what is the	21	or not this was a document you prepared by yourself
22	independent evidence that you have reference to in	22	or whether you had help on it?
23	that sentence?	23	A I recall having help on the graph that is
24	MR. SELEY: Objection. Lacks foundation.	24	shown on page 4. I recall I recall that someone
25	Calls for speculation.	25	else prepared at least parts of Table 2. Other than
	279		281
			201
1	A The evidence that's referred to here are	1	that, I can't recall one way or another.
1 2	A The evidence that's referred to here are data collected by the Ecuadorian Ministry of Energy	1 2	
			that, I can't recall one way or another.
2	data collected by the Ecuadorian Ministry of Energy	2	that, I can't recall one way or another. Q Okay. Is the content of the document
2 3	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part	2 3	that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided?
2 3 4	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The	2 3 4	that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he
2 3 4 5 6 7	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is.	2 3 4 5	that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall.
2 3 4 5 6 7 8	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The	2 3 4 5 6 7 8	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document
2 3 4 5 6 7 8 9	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to	2 3 4 5 6 7 8 9	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have
2 3 4 5 6 7 8 9 10	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document.	2 3 4 5 6 7 8 9	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall
2 3 4 5 6 7 8 9 10 11	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at	2 3 4 5 6 7 8 9 10 11	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it.
2 3 4 5 6 7 8 9 10 11 12	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of	2 3 4 5 6 7 8 9 10 11 12	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general
2 3 4 5 6 7 8 9 10 11 12 13	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time?	2 3 4 5 6 7 8 9 10 11 12 13	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that
2 3 4 5 6 7 8 9 10 11 12 13 14	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks 	2 3 4 5 6 7 8 9 10 11 12 13 14	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at
2 3 4 5 6 7 8 9 10 11 12 13 14 15	data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman No. 13. Can you identify that 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.) Q (BY MR. SMYSER) Okay. Let me hand you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman No. 13. Can you identify that for us, please? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.) Q (BY MR. SMYSER) Okay. Let me hand you what has been marked as Beltman Exhibit 14 and ask
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman No. 13. Can you identify that for us, please? MR. SELEY: What is this? 13. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.) Q (BY MR. SMYSER) Okay. Let me hand you what has been marked as Beltman Exhibit 14 and ask you to take a look at that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman No. 13. Can you identify that for us, please? MR. SELEY: What is this? 13. Q (BY MR. SMYSER) Can you identify this for 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.) Q (BY MR. SMYSER) Okay. Let me hand you what has been marked as Beltman Exhibit 14 and ask you to take a look at that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 data collected by the Ecuadorian Ministry of Energy and Mines and data that is referred to here as part of an academic research project, but I don't recall now what that project is. Q (BY MR. SMYSER) The MR. SELEY: Excuse me. I'm just going to have an additional objection. It appears to be an incomplete document. There are footnotes here that don't seem to be in this document. Q (BY MR. SMYSER) Let me ask you to look at the fifth heading, Chevron simply abandoned most of their pits. Was that your opinion at the time? MR. SELEY: Same objections. Lacks foundation. Calls for speculation. And leading. A Yes. MR. SMYSER: Thank you. (Exhibit 13 marked.) Q (BY MR. SMYSER) Let me hand you what has been marked as Beltman No. 13. Can you identify that for us, please? MR. SELEY: What is this? 13. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that, I can't recall one way or another. Q Okay. Is the content of the document otherwise content that you provided? MR. SELEY: Objection. He just said he can't recall. A I would have to review the document carefully. In general, what I see here in terms of the tables and the text in the figures, they are things that we prepared at Stratus that I have provided to Mr. Donziger. But I can't recall specifically if this is exactly as I prepared it. Q (BY MR. SMYSER) Based on your general review, have you seen anything in that document that you don't think is data from yourself or someone at Stratus? MR. SELEY: Objection. Calls for speculation. Lacks foundation. A Based on my quick review, no, I don't. (Exhibit 14 marked.) Q (BY MR. SMYSER) Okay. Let me hand you what has been marked as Beltman Exhibit 14 and ask you to take a look at that.

71 (Pages 278 to 281)

VERITEXT REPORTING COMPANY www.veritext.com

212-267-6868

	282		284
1	that bears the stamp of the Court, what I previously	1	ТРН?
2	identified for you as the court stamp for the Court	2	MR. SELEY: Objection. Calls for
3	in Sucumbios.	3	speculation. The document speaks for itself.
4	Do you see that?	4	A Yes, that's what I would interpret those
5	A I see that stamp, yes.	5	dots to be
6	Q And if you'll look at the bottom	6	Q (BY MR. SMYSER) Okay.
7	right-hand corner, you'll see that it says Informe	7	A would be the results from sampling.
8	del Perito, John A. Connor, P.E., P.G., D.E.E.	8	Q And these samples from Texaco provided to
9	Do you see that?	9	the Court from John Connor, do they indicate any
10	A I can't make out the last three no, the	10	samples above the 5,000 parts well, first above
11	last two letters but I see all the others, yes.	11	the 1,000 parts per million that you testified
12	Q Do you know who John A. Connor was?	12	earlier was the Ecuadorian limit?
13	A I know of a John Connor who works for a	13	MR. SELEY: Objection. Calls for
14	consulting company that was contracted by Chevron and	14	speculation. Material is taken out of context.
15	he was one of Chevron's experts in the judicial	15	Lacks foundation.
16	inspections.	16	A Yes, I see some data points in the plot
17	Q Okay. And it's not the John Connor who	17	above a thousand parts per million. It looks like
18	was the sole hope in the human race in the war	18	there are two different shapes to the data points and
19	against engines, machines of the Terminator movies,	19	I'm not sure what that means, but there are quite a
20	right?	20	few data points above a thousand parts per million.
21	A Not that I know of.	21	Q There are data points of both shapes above
22	Q This, if you look at the left-hand side	22	a thousand parts per million; is that correct?
23	bottom, it says Pozo Sacha 6. Do you know what that	23	MR. SELEY: Same objections.
24	means?	24	A Correct.
25	A Well Sacha 6.	25	Q (BY MR. SMYSER) And is there are there
	283		
	203		285
1	Q Underneath that appear the words	1	285 data points at 5,000 or above?
1 2		1 2	
	Q Underneath that appear the words		data points at 5,000 or above?
2	Q Underneath that appear the words Inspeccion Judicial. What does that mean?	2	data points at 5,000 or above? MR. SELEY: Same objections.
2 3	Q Underneath that appear the wordsInspeccion Judicial. What does that mean?A Judicial inspection.	2 3	data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above
2 3 4	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that 	2 3 4	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to
2 3 4 5	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? 	2 3 4 5	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell.
2 3 4 5 6 7 8	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. 	2 3 4 5 6 7 8	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if
2 3 4 5 6 7 8 9	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. 	2 3 4 5 6 7 8 9	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected
2 3 4 5 6 7 8 9 10	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? 	2 3 4 5 6 7 8 9 10	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria.
2 3 4 5 6 7 8 9 10 11	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? 	2 3 4 5 6 7 8 9 10 11	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under
2 3 4 5 6 7 8 9 10 11 12	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. 	2 3 4 5 6 7 8 9 10 11 12	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo.
2 3 4 5 6 7 8 9 10 11 12 13	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. 	2 3 4 5 6 7 8 9 10 11 12 13	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right?
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with 	2 3 4 5 6 7 8 9 10 11 12 13 14	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? Q Yes. Q Yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. Q Yes. A Yes, I see that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there. A Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. Q Yes. A Yes, I see that. Q And that the numbers on that go from 1,000 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there. A Yes. Q And can you tell us what that value shows?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. Q Yes. A Yes, I see that. Q And that the numbers on that go from 1,000 up to 120,000 or 12,000, I can't tell which. 12,000. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there. A Yes. Q And can you tell us what that value shows? MR. SELEY: Same objections as before.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. Q Yes. A Yes, I see that. Q And that the numbers on that go from 1,000 up to 120,000 or 12,000, I can't tell which. 12,000. A 12,000, yes, I see that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there. A Yes. Q And can you tell us what that value shows? MR. SELEY: Same objections as before.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q Underneath that appear the words Inspeccion Judicial. What does that mean? A Judicial inspection. Q Okay. And if you would look at the table on that page, can you read the box beside the table? A I don't think I could translate that accurately Q Okay. A with confidence. Q How about the title of the table itself? A Of the graph there? Q Yes. A Concentrations of TPH in subsoils. Q Okay. Do you see the little graph with the X and Y axis and the Y axis has TPH, milligrams per kilogram; do you see that? A I think it says TPH total milligrams per kilogram. Q Yes. A Yes, I see that. Q And that the numbers on that go from 1,000 up to 120,000 or 12,000, I can't tell which. 12,000. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 data points at 5,000 or above? MR. SELEY: Same objections. A There is at least one data point above 5,000 ppm. There's another one that is very close to 5,000, could be above. I can't tell. Q (BY MR. SMYSER) Okay. Turn the page, if you would, please. And can you read the title to that table? A A comparison of the maximum detected concentrations in soils with international criteria. Q Okay. And if you would look over under the column called Subsueto (sic) con Petroleo. Do you see that all the way to the right? A Yes, I see that. Q And do you see under that the column that says Concentracion Maxima Detectada? A I see that, yes. Q And would you look at the first value there. A Yes. Q And can you tell us what that value shows? MR. SELEY: Same objections as before.

72 (Pages 282 to 285)

11	286		288
1	refers to diesel range organics. So this is the	1	A I met with the producer and the, I'll call
2	middle portion of the petroleum range that we talked	2	her, the assistant producer, prior to the filming
3	about earlier. And what this table, if I'm reading	3	that took place in Ecuador. I didn't meet with the
4	that row correctly is showing is that the maximum	4	correspondent prior to the filming in Ecuador.
5	concentration detected was 8,400 milligrams per	5	Q (BY MR. SMYSER) Okay. The correspondent
6	kilogram of the diesel range of petroleum.	6	was Mr. Pelley, I think you said?
7	MR. SELEY: Move to strike as speculative	7	A Yes.
8	and lacks foundation.	8	Q And where did you meet with the producer?
9	Q (BY MR. SMYSER) Okay. I would like to	9	MR. SELEY: I'm going to object to this
10	switch gears with you again. Thank you. And I would	10	whole line of questioning as irrelevant.
11	like to mention the we've discussed with you the	11	A I met the producer in New York, I met the
12	60 Minutes video briefly.	12	producer in Ecuador. I did a tour of the concession
13	A Can we take another quick break before we	13	area with the producer. That's all I can recall, the
14	get into that, please?	14	only meetings I recall right now.
15	Q Very quick because I've only got a few	15	Q (BY MR. SMYSER) Okay. Did your tour of
16	minutes left. That's fine.	16	the concession area occur close to when you met with
17	A I just need another thing of water.	17	the correspondent or before?
18	Q Yep, a short break.	18	A Before.
19	THE VIDEOGRAPHER: We're off the record at	19	Q Did you have to make separate trips to
20	5:28.	20	Ecuador, one with the producer and one with the
21	(Recess taken from 5:28 p.m. to 5:34 p.m.)	21	correspondent, or did they occur in a single trip?
22	THE VIDEOGRAPHER: Back on the record at	22	A They were separate trips.
23	5:34.	23	Q Okay. How far apart?
24	Q (BY MR. SMYSER) Mr. Beltman, at some	24	A I recall roughly three to maybe four
25	point during your work on this project, did 60	25	months apart.
	287		289
1	Minutes become interested in doing a story on what	1	Q Did you get any understanding from the
2	was going on in Ecuador?	2	producer as to why they wanted to talk to you about
3	A Yes.	3	this project?
4	MR. SELEY: Objection. Calls for	4	A Yes.
5	speculation.	5	Q And what was that understanding?
6	Q (BY MR. SMYSER) And did you participate	6	MR. SELEY: Objection. Calls for hearsay.
7	in the 60 Minutes program that resulted from 60	7	A What I recall them saying to me is that
8	Minutes' interest in this project?	8	they wanted to talk to me mostly about the data that
9	MR. SELEY: Objection. Misstates facts.	9	we had compiled on the contamination, other
10	A Yes, I did.	10	information we had. We provided information to them,
11			
11	Q (BY MR. SMYSER) How did you first get	11	provided data that they looked at. We talked about
	Q (BY MR. SMYSER) How did you first get contacted about that?	12	provided data that they looked at. We talked about the underlying facts, about the contamination in
11	· · · · · · · · · · · · · · · · · · ·		
11 12	contacted about that?	12	the underlying facts, about the contamination in
11 12 13	contacted about that? A The first contact that I had was through	12 13	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they
11 12 13 14	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent	12 13 14	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding.
11 12 13 14 15	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger.	12 13 14 15	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike.
11 12 13 14 15 16 17 18	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and	12 13 14 15 16	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would
11 12 13 14 15 16 17 18 19	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60	12 13 14 15 16 17	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show
11 12 13 14 15 16 17 18 19 20	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60 Minutes program?	12 13 14 15 16 17 18 19 20	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show where you appear and ask you to, as you did with your
11 12 13 14 15 16 17 18 19 20 21	contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60 Minutes program? A I met with one correspondent, Scott	12 13 14 15 16 17 18 19 20 21	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show where you appear and ask you to, as you did with your PowerPoint, to narrate to us what you were doing,
11 12 13 14 15 16 17 18 19 20 21 22	 contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60 Minutes program? A I met with one correspondent, Scott Pelley, and a producer I can't remember her title, it's an associate producer for the program. Q Okay. And did you meet with them before 	12 13 14 15 16 17 18 19 20 21 22	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show where you appear and ask you to, as you did with your PowerPoint, to narrate to us what you were doing, what you were showing, what you were attempting to do
11 12 13 14 15 16 17 18 19 20 21 22 23	 contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60 Minutes program? A I met with one correspondent, Scott Pelley, and a producer I can't remember her title, it's an associate producer for the program. Q Okay. And did you meet with them before they started filming? 	12 13 14 15 16 17 18 19 20 21 22 23	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show where you appear and ask you to, as you did with your PowerPoint, to narrate to us what you were doing, what you were showing, what you were attempting to do in this segment. Is that okay? A Sure.
11 12 13 14 15 16 17 18 19 20 21 22	 contacted about that? A The first contact that I had was through Steven Donziger. I didn't have any independent contact, except through Mr. Donziger. Q Okay. Did you eventually meet with and discuss your work with correspondents from the CBS 60 Minutes program? A I met with one correspondent, Scott Pelley, and a producer I can't remember her title, it's an associate producer for the program. Q Okay. And did you meet with them before 	12 13 14 15 16 17 18 19 20 21 22	the underlying facts, about the contamination in Texaco's operations. And that's primarily why they were talking to me, is my understanding. MR. SELEY: Move to strike. Q (BY MR. SMYSER) All right. I now would like to go through the section of the 60 Minutes show where you appear and ask you to, as you did with your PowerPoint, to narrate to us what you were doing, what you were showing, what you were attempting to do in this segment. Is that okay?

73 (Pages 286 to 289)

	290		292
1	Q Okay?	1	the cameraman is standing, maybe a little bit behind.
2	MR. SELEY: Objection. Calls for improper	2	I'm describing how the water comes out of the pipe
3	testimony, improper expert testimony. Lacks	3	from the pit, flows down a little drainage and enters
4	foundation.	4	this little creek. And you can see oil in this
5	Q (BY MR. SMYSER) Let's back up. Can we	5	little creek coming down from the pipe.
6	back up a little bit. Is that where it starts?	6	Q (BY MR. SMYSER) Did you see oil in the
7	Okay? It's not every day, I'll tell you, that one	7	little creek that day when you were standing there,
8	gets to appear on 60 Minutes with a closeup like	8	crouching there with the correspondent?
9	that. Was this nerve-racking for you, or were you	9	A As I recall, yes, we could.
10	just indifferent to the whole thing? Were you just	10	Q Could you smell oil at that time?
11	doing a job?	11	A I don't remember if we could or not.
12	A Working with the assistant producer on the	12	MR. SMYSER: Okay. Roll the tape.
13	background of the story, there was nothing too	13	Q (BY MR. SMYSER) And are you continuing
14	unusual about that. Appearing on camera in this case	14	your description here of what you're seeing?
15	in a face-to-face interview with a correspondent was	15	A Yes.
16	nerve-racking. I was nervous.	16	Q Now, is this back to the bench interview?
17	Q And where were you at the time this	17	MR. SELEY: Objection. Leading.
18	interview occurred?	18	A Yes, the face to face.
19	A We were sitting on a bench, this is a face	19	Q (BY MR. SMYSER) And is that the
20	to face with the correspondent. We're sitting on a	20	correspondent?
21	bench right next to the larger oil pit at	21	A Yes, that's Scott Pelley.
22	Shushufindi 38.	22	Q And what are you describing here in
23	Q And why were you at Shushufindi 38?	23	general?
24	MR. SELEY: Objection. Calls for	24	MR. SELEY: Objection. Calls for
25	speculation.	25	speculation.
			203
	291		293
1	A It wasn't my choice. That was where they	1	A As I recall from the show, this is he
2	A It wasn't my choice. That was where they said they wanted to do the face to face with me	2	A As I recall from the show, this is he was actually asking me a question about whether this
2 3	A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it.	2 3	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I
2 3 4	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this 	2 3 4	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the
2 3 4 5	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you 	2 3 4 5	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination
2 3 4 5 6	A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing?	2 3 4 5 6	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later.
2 3 4 5 6 7	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the 	2 3 4 5 6 7	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this
2 3 4 5 6 7 8	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe 	2 3 4 5 6 7 8	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now?
2 3 4 5 6 7 8 9	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data 	2 3 4 5 6 7 8 9	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation.
2 3 4 5 6 7 8 9 10	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the 	2 3 4 5 6 7 8 9 10	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony.
2 3 4 5 6 7 8 9 10 11	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked 	2 3 4 5 6 7 8 9 10 11	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site
2 3 4 5 6 7 8 9 10 11 12	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what 	2 3 4 5 6 7 8 9 10 11 12	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It
2 3 4 5 6 7 8 9 10 11 12 13	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the 	2 3 4 5 6 7 8 9 10 11 12 13	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down
2 3 4 5 6 7 8 9 10 11 12 13 14	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, 	2 3 4 5 6 7 8 9 10 11 12 13 14	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want to step out there.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? MR. SELEY: Objection. Calls for speculation. And vague. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want to step out there. Q Does this picture
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? MR. SELEY: Objection. Calls for speculation. And vague. A In this scene, the correspondent Scott 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want to step out there. Q Does this picture MR. SELEY: Move to strike.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? MR. SELEY: Objection. Calls for speculation. And vague. A In this scene, the correspondent Scott Pelley, on the right, and I are in a little stream 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want to step out there. Q Does this picture MR. SELEY: Move to strike. Q (BY MR. SMYSER) contain a true and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A It wasn't my choice. That was where they said they wanted to do the face to face with me there. That's where I did it. Q (BY MR. SMYSER) Okay. In this face-to-face interview right here, what are you discussing? A He, the correspondent, as I recall the fact-to-face interview lasted about 45 minutes, maybe an hour. He asked a lot of questions about the data that I have looked at, what I knew about the contamination, similar kinds of things we've talked about today about Texaco's operations. I think what showed up in the clips that they showed in the program were me providing some general statements, overall statements about Texaco's operations in Ecuador. Q And let's look at the, if you would, the picture now on the screen. What is happening in this picture? MR. SELEY: Objection. Calls for speculation. And vague. A In this scene, the correspondent Scott 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A As I recall from the show, this is he was actually asking me a question about whether this would have happened in the U.S. And I'm describing I didn't think it would happen in the U.S., either the contamination or the fact that the contamination would still be there 20 or 30 years later. Q (BY MR. SMYSER) Okay. And what is this picture showing now? MR. SELEY: Objection. Lacks foundation. Calls for speculation. Calls for expert testimony. A This is one of the oil pits at well site Aguarico 4. It's a well site operated by Texaco. It was not operated by Petroecuador so it was shut down prior to 1990. And what we're seeing here, it's a little bit hard to tell in this picture, but the pit is covered with oil and there are leaves that have fallen on top of the pit so it's kind of a rough vegetation like looking area. But it's there's no solid ground there. It's oil and you wouldn't want to step out there. Q Does this picture MR. SELEY: Move to strike.

74 (Pages 290 to 293)

	294		296
1	MR. SELEY: Objection. Lacks foundation.	1	MR. SELEY: Objection. Calls for expert
2	A Yes, I was present when they did that	2	testimony.
3	filming and I've been to that site other times and	3	A It's typical of all the places that I've
4	that is an accurate representation of what it looks	4	been there, yes.
5	like.	5	Q (BY MR. SMYSER) Okay. Now, what is
6	MR. SELEY: Objection. Oh, no, sorry,	6	happening in this picture?
7	move to strike.	7	A This is a closeup of the end of the pipe.
8	Q (BY MR. SMYSER) What is that picture of?	8	So this is the not the end of the pipe in the pit,
9	A That's a closeup of the surface of the	9	but it's the end of the pipe that sticks out the side
10	pit.	10	of the pit. And we can see some water draining out
11	MR. SELEY: Same objections.	11	of the pipe.
12	A You can see a little bit that this is	12	Q And where is it draining?
13	oily, leaves have fallen on top of the pit. You can	13	MR. SELEY: Objection. Calls for
14	see it's black and sort of oily.	14	speculation. Lacks foundation.
15	MR. SMYSER: Continue, please.	15	A The water drains down a small hill. It's
16	Q (BY MR. SMYSER) Now, what is happening	16	a gully that the water has formed over time. It runs
17	here?	17	down through this gully and then into a wetland or
18	MR. SELEY: Same objections.	18	stream area down at the bottom of the hill.
19	A Here the correspondent, Mr. Pelley, has	19	MR. SMYSER: Okay. Continue.
20	walked out on a couple of small pieces of wood to get	20	Q (BY MR. SMYSER) And what is happening
21	closer to the edge of the pit and he has a long pole	21	here?
22	that he is sticking into the pit through the surface.	22	A Here he is sticking his hand under the
23	He's trying to see if he can get to the bottom, see	23	pipe collecting the water with his hand. I think he
24	how deep this pit is.	24	next pulls it up to his nose and smells it and says
25	Q (BY MR. SMYSER) Okay. Do you remember	25	that he can smell the oil in the water.
	295		297
1	whether or not he did get to the bottom?	1	MR. SELEY: Objection. Hearsay.
1 2	whether or not he did get to the bottom? MR. SELEY: Objection. Calls for	1 2	-
	-		MR. SELEY: Objection. Hearsay.
2	MR. SELEY: Objection. Calls for	2	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done
2 3	MR. SELEY: Objection. Calls for speculation. Lacks foundation.	2 3	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where
2 3 4	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not.	2 3 4 5 6	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I
2 3 4 5 6 7	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening	2 3 4 5 6 7	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation.
2 3 4 5 6 7 8	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now?	2 3 4 5 6 7 8	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I
2 3 4 5 6 7 8 9	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections.	2 3 4 5 6 7 8 9	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you
2 3 4 5 6 7 8 9 10	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And	2 3 4 5 6 7 8 9	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that?
2 3 4 5 6 7 8 9 10 11	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera.	2 3 4 5 6 7 8 9 10 11	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil.
2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I	2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue.
2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that	2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit? A No, this is the same pit at Aguarico 4.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil. MR. SELEY: Move to strike. Lacking
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit? A No, this is the same pit at Aguarico 4. Q Is this an accurate representation of what	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil. MR. SELEY: Move to strike. Lacking foundation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit? A No, this is the same pit at Aguarico 4. Q Is this an accurate representation of what you saw that day?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil. MR. SMYSER: Continue, please.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit? A No, this is the same pit at Aguarico 4. Q Is this an accurate representation of what you saw that day? A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil. MR. SMYSER: Continue, please. Q (BY MR. SMYSER) That's the end of your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Objection. Calls for speculation. Lacks foundation. A I don't remember if he did or not. Q (BY MR. SMYSER) Okay. What's happening in this picture now? MR. SELEY: Same objections. A We're at the same site. It's at Aguarico 4. We can see in the foreground this is the pipe that was built into the side of the pit. And the camera is up. The pit is behind the camera. We're looking at the pipe and then Mr. Pelley and I are walking up from the bank where the water that comes out of this pipe then drains down into a stream. Q (BY MR. SMYSER) Is this a pipe from the pit that we were looking at previously or A Yes. Q from another pit? A No, this is the same pit at Aguarico 4. Q Is this an accurate representation of what you saw that day?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 MR. SELEY: Objection. Hearsay. Q (BY MR. SMYSER) Had you previously done something like this at pipes similar to this, where you had collected water and smelled it? MR. SELEY: Objection. Lacks foundation. A I have done it at this particular pipe. I didn't do it on this particular on this visit, but I have done it at this site. Q (BY MR. SMYSER) And what did you determine what did you smell when you did that? A Oil. MR. SMYSER: You may continue. Q (BY MR. SMYSER) And what does this picture show? A It's another shot of the same pipe, where that water comes out of the pipe and where that water hits the soil and now the start of the gully is formed. You can see there in black it's oil that has collected. It's accumulated on the soil. MR. SMYSER: Continue, please.

75 (Pages 294 to 297)

	298		300
1	Q Did you reach an opinion during your work	1	found the Texaco oil pits, at the time you did your
2	on this matter as to whether or not Texaco's	2	work in Ecuador, would be permitted to continue
3	substandard practices in waste disposal, as you have	3	unabated and unremediated?
4	described them today, were a cause of environmental	4	MR. SELEY: Same objections and incomplete
5	contamination and pollution to the Ecuadorian	5	hypothetical.
6	rainforest?	6	A Yes, I did. And I concluded that open
7	MR. SELEY: Objection. Calls for expert	7	pits like this, with the number of pits, the scale of
8	testimony. Leading. Calls for speculation. Lacks	8	the pits that were left and the contamination of the
9	foundation.	9	pits, it's very unlikely that it would have been left
10	A Yes, I did.	10	alone like it was in Ecuador, in the U.S.
11	Q (BY MR. SMYSER) And what was your	11	MR. SELEY: Move to strike.
12	opinion?	12	Q (BY MR. SMYSER) Did you reach an opinion
13	MR. SELEY: Same objections.	13	as to whether or not the practices that Texaco used
14	A My opinion is that Texaco's operations	14	as operator of the oil wells in the concession area
15	caused pollution of the rainforest environment,	15	from 1972 to 1990 were in accordance with industry
16	caused the pollution of groundwater, of soils, of	16	standards that would have applied if these wells had
17	surface water, streams, rivers, and of the air.	17	been drilled in the United States?
18	MR. SELEY: Move to strike as irrelevant.	18	MR. SELEY: Objection. Calls for expert
19	Q (BY MR. SMYSER) And did that pollution	19	testimony. Calls for speculation. Lacks foundation.
20	which you found at the time you were working on the	20	A Yes.
21	project, present a harm, a threat of harm to the	21	Q (BY MR. SMYSER) And what opinion did you
22	biological life, including plants, and animals and	22	form?
23	humans who were affected by the discharge of oil	23	MR. SELEY: Same objections.
24	waste from Texaco's operations?	24	A That the way Texaco operated this oil
25	MR. SELEY: Objection. Calls for expert	25	field was not consistent with regulations in the U.S.
	299		301
1			
1	testimony. Leading. Calls for speculation. Lacks	1	at the time or industry standard practices.
2	testimony. Leading. Calls for speculation. Lacks foundation. Lacks any evidence of causation.	2	at the time or industry standard practices. MR. SELEY: Move to strike.
2 3	foundation. Lacks any evidence of causation. A I reached conclusions specific to	2 3	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has
2 3 4	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in	2 3 4	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in
2 3 4 5	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an	2 3 4 5	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions.
2 3 4 5 6	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a	2 3 4 5 6	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions?
2 3 4 5 6 7	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the	2 3 4 5 6 7	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have.
2 3 4 5 6 7 8	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the	2 3 4 5 6 7 8	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your
2 3 4 5 6 7 8 9	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of	2 3 4 5 6 7 8 9	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully?
2 3 4 5 6 7 8 9 10	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially	2 3 4 5 6 7 8 9	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have.
2 3 4 5 6 7 8 9 10 11	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels.	2 3 4 5 6 7 8 9 10 11	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time.
2 3 4 5 7 8 9 10 11 12	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike.	2 3 4 5 6 7 8 9 10 11 12	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you.
2 3 4 5 6 7 8 9 10 11 12 13	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion	2 3 4 5 6 7 8 9 10 11 12 13	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state
2 3 4 5 6 7 8 9 10 11 12 13 14	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States	2 3 4 5 7 8 9 10 11 12 13 14	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to
2 3 4 5 6 7 8 9 10 11 12 13 14 15	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for a legal conclusion. Lacks foundation.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the Ecuadorian plaintiffs at this time, I will not agree
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for a legal conclusion. Lacks foundation. A I'm sorry, could you repeat that question,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the Ecuadorian plaintiffs at this time, I will not agree to extend the time of seven hours provided by the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for a legal conclusion. Lacks foundation. A I'm sorry, could you repeat that question, please?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the Ecuadorian plaintiffs at this time, I will not agree to extend the time of seven hours provided by the Federal Rules of Civil Procedure for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for a legal conclusion. Lacks foundation. A I'm sorry, could you repeat that question, please? Q (BY MR. SMYSER) Yes. Did you reach an	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the Ecuadorian plaintiffs at this time, I will not agree to extend the time of seven hours provided by the Federal Rules of Civil Procedure for cross-examination, especially for a witness that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	foundation. Lacks any evidence of causation. A I reached conclusions specific to environmental harm that produced water discharged in particular was toxic to aquatic life. I'm not an expert on human health toxicology, but based on a comparison of environmental data with things like the EPA drinking water standard, I concluded that the contamination has also contributed to exposure of humans and that exposure is at least potentially harmful levels. MR. SELEY: Move to strike. Q (BY MR. SMYSER) Did you reach an opinion at the time as to whether or not in the United States oil pits in the condition that you found them, at the time you did your work in Ecuador, would be permitted to continue unabated and unremediated? MR. SELEY: Objection. Calls for expert testimony. Vague, calls for speculation. Calls for a legal conclusion. Lacks foundation. A I'm sorry, could you repeat that question, please?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. SELEY: Move to strike. Q (BY MR. SMYSER) I'm told that my time has expired. I appreciate your courtesy and your time in answering my questions. Have you understood my questions? A Yes, I have. Q Have you answered them to the best of your ability, truthfully and fully truthfully? A Yes, I have. MR. SMYSER: Thank you for your time. THE DEPONENT: Thank you. MR. SELEY: All right. I'm going to state for the record I have extensive cross-examination to do. And I'm going to ask on the record if the other counsel here would agree to make Mr. Beltman available for my cross-examination without me issuing a subpoena. MR. SMYSER: Speaking on behalf of the Ecuadorian plaintiffs at this time, I will not agree to extend the time of seven hours provided by the Federal Rules of Civil Procedure for

76 (Pages 298 to 301)

	302		304	
1	occurring.	1	the record, I'm willing to work with counsel with	
2	MR. SELEY: Counsel for Mr. Beltman.	2	regard to date for depositions. I understand from	
3	MR. GREEN: Well, at this point I am not	3	plaintiffs' counsel that they are willing to have	
4	going to consent to having my client voluntarily	4	Mr. Beltman's subpoena occur after the 15th if	
5	appear. I know that counsel for Chevron is about to	5	that's if it has to be done that way, but our	
6	serve a subpoena on my client. We will, of course,	6	preference at this point is to move forward on the	
7	accept the subpoena. However, our acceptance of the	7	15th.	
8	subpoena by no means waives our right to object to	8	MR. SMYSER: You are correct that if the	
9	its propriety.	9	Court determines that you are entitled to more time,	
10	Additionally, my client has already been	10	that I will work with you on a date for the	
11	deposed for seven hours here. Frankly, I did not	11 deposition that is convenient to all parties		
12	understand why it was necessary for almost every	12	concerned.	
13	question to be objected to by counsel for Chevron.	13	MR. SELEY: Okay. Anything else anyone	
14	Frankly, I think that there was a lot of	14	needs to say on the record? All right. Thank you	
15	time that was wasted because of that and I certainly	15	both.	
16	at this point have not authorized, nor will I agree	16	MR. GREEN: Nothing further.	
17	to have him appear voluntarily for cross-examination.	17	THE VIDEOGRAPHER: We're off the record at	
18	MR. SELEY: All right. Well, thank you.	18	5:57.	
19	I disagree with your position, obviously. I will	19	(Proceedings adjourned at 5:57 p.m.)	
20	serve on Mr. Beltman a subpoena asking him to appear	20		
21	on the 15th of this month at 9 a.m. at Gibson Dunn &	21	* * * * * *	
22	Crutcher, 1801 California Street in Denver, Colorado,	22		
23	where his deposition will be taken.	23		
24	And I can hand it to Mr. Beltman or I can	24		
25	hand it to counsel.	25		
	303		305	
1	MR. GREEN: I will accept it on his	1	CERTIFICATE	
1 2	MR. GREEN: I will accept it on his behalf. I notice that there is now this is also a	2	C E R T I F I C A T E I, DOUGLAS BELTMAN, do hereby certify	
	•	2 3	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my	
2	behalf. I notice that there is now this is also a	2 3 4	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true	
2 3	behalf. I notice that there is now this is also a document for production of documents, correct, of	2 3 4 5	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the	
2 3 4	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately	2 3 4 5 6	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that.	2 3 4 5	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the	
2 3 4 5 6	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents	2 3 4 5 6 7	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond.	2 3 4 5 6 7 8 9 10	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 7 8 9 10	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and	2 3 4 5 6 7 8 9 10 11	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this	2 3 4 5 6 7 8 9 10 11 12	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we	2 3 4 5 6 7 8 9 10 11 12 13	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination	2 3 4 5 6 7 8 9 10 11 12	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you	2 3 4 5 6 7 8 9 10 11 12 13 14	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 7 8 9 10 11 12 13 14 15 16	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time. MR. SELEY: We can provide a witness fee	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below):	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time. MR. SELEY: We can provide a witness fee to Mr. Beltman as appropriate.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below): Page Line Correction	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time. MR. SELEY: We can provide a witness fee to Mr. Beltman as appropriate. MR. SMYSER: And I object to the documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below): Page Line Correction 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time. MR. SELEY: We can provide a witness fee to Mr. Beltman as appropriate. MR. SMYSER: And I object to the documents as not having been provided proper notice of that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below): Page Line Correction	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. SELEY: We can provide a witness fee to Mr. Beltman as appropriate. MR. SMYSER: And I object to the documents as not having been provided proper notice of that. MR. SELEY: I think everyone has now 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below): Page Line Correction 	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 behalf. I notice that there is now this is also a document for production of documents, correct, of approximately MR. SELEY: Can I clarify that. MR. GREEN: 50 categories of documents returnable less than a week from today. This is I think an abusive practice. But you've served it and we will respond. MR. SELEY: Okay. Just to clarify the document subpoena had previously been served and this is modified now to include a deposition because we didn't get an opportunity to do our cross-examination today. With that clarification, I understand you have accepted service. I also understand you reserve your rights. MR. GREEN: I also object to the fact that a witness fee has not been tendered at this time. MR. SELEY: We can provide a witness fee to Mr. Beltman as appropriate. MR. SMYSER: And I object to the documents as not having been provided proper notice of that. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23	I, DOUGLAS BELTMAN, do hereby certify that I have read the foregoing transcript of my testimony, and further certify that it is a true and accurate record of my testimony (with the exception of the corrections listed below): Page Line Correction 	

77 (Pages 302 to 305)

		306		308
1	I N D E X		1	STATE OF COLORADO)
2	EXAMINATION PAGE		2) ss. REPORTER'S CERTIFICATE
3	BY MR. SMYSER 3		3	COUNTY OF DENVER)
4 5	PRODUCTION REQUEST(S):		5	I, Kelly A. Mackereth, do hereby certify that I am a Registered Professional Reporter and
6 7	None.		6	Notary Public within the State of Colorado; that
	INDEX OF EXHIBITS		7	previous to the commencement of the examination, the
8 9	INITIAL		8	deponent was duly sworn to testify to the truth.
10	DESCRIPTION REFERENCE		10	I further certify that this deposition was taken in shorthand by me at the time and place herein
11	Exhibit 1 4/7/10 Beltman slide 27 presentation,		11	set forth, that it was thereafter reduced to
12	CVX-RICO-2268146-2268197		12	typewritten form, and that the foregoing constitutes
13	Exhibit 2 Woodward-Clyde May 2000 report, 186 CVX-RICO-2026694-2026916		13	a true and correct transcript.
14	Exhibit 3 HBT AGRA audit report, 207		14 15	I further certify that I am not related to, employed by, nor of counsel for any of the parties or
15 16	CA1069438-1068920 Exhibit 5 11/7/08 e-mail to Donziger from 209		16	attorneys herein, nor otherwise interested in the
17	Beltman with attachments, CVX-RICO-2196276-2196296		17	result of the within action.
18	Exhibit 6 11/12/07 Spanish version of 252		18	In witness whereof, I have affixed my
19	Stratus Consulting report		19 20	signature and seal this 12th day of September, 2011.
20	Exhibit 7 Article by Beltman titled 262 Chevron's Negligently		20	My commission expires April 21, 2015.
21	Substandard Öilfield Waste Disposal,		22	
22	CVX-RICO-2201970-2201979			Kelly A. Mackereth, CRR, RPR, CLT
	Exhibit 8 10/15/09 Memorandum to Donziger 267		23	216 - 16th Street, Suite 650
23	from Beltman re Information on Sites Visited 10/8/09,		24	Denver, Colorado 80202
24 25	CVX-RICO-2207185-2207189		25	
		307		
1				
2	INITIAL DESCRIPTION REFERENCE			
3				
4	Exhibit 9 11/11/08 Memorandum to Members 270 of Ecuador CODEL of Rep. James			
5	McGovern from Beltman re Information on Sites Visited			
6	WOODS00034363-00034369			
7	Exhibit 10 Beltman article titled How 271 Chevron's Bogus Lab Test			
8	Guaranteed a "Successful" Remediation,			
9 10	CVX-RICO-2202095-2202096			
10	Exhibit 11 Beltman and Maest article titled 272 Texaco's Misuse of the TCLP Test			
11	to Evaluate the Effectiveness of Oil Cleanup in Ecuador,			
12 13	CVX-RICO-2204388-2204390 Exhibit 12 Beltman article titled Chevron's 276			
	Phone "Cleanup",			
14 15	CVX-RICO-2202089-2202090 Exhibit 13 Beltman article titled Summary 279			
16	of Environmental Data on Oil Contamination in the Napo,			
	CVX-RICO-2201994-2202000			
17	Exhibit 14 Pozo Sacha 6 Inspecccion 281			
18	Judicial, Informe del Perito, John A. Connor.			
19 20	CVX-RICO-1021331-1021472			
20 21				
22 23				
24 25				
47				

78 (Pages 306 to 308)

212-267-6868

516-608-2400

	I		I
A	Acrobat 235:6	adverse 5:21 103:7	al 1:11,14 112:23
abandoned 8:18	acronym 110:21	adversely 97:10	alleged 212:10
49:11 50:3 279:12	Act 18:10	aerial 49:12,19,20	allow 241:3
ABG 110:8	action 179:14	49:23 53:4,9	allowable 137:25
ability 217:25 301:9	185:19,24 186:3,6	155:13,15 156:2	allowed 109:5
able 159:1	186:8 187:25	156:19 163:17	149:20 182:16
absent 146:7 197:8	188:1,4 191:5,12	167:24	215:10,23
absolutely 52:12	191:13,18,22,24	affixed 308:18	allows 107:12
71:15,22 146:6	192:1,15,16,18,21	afraid 154:13	alongside 118:14
absorb 120:3	192:22 193:2,2	Africa 15:1,4,6,7	aloud 259:23
ABT 230:23	215:3 248:18	age 204:1	Amazon 20:19
abusive 303:8	249:1,15 308:17	agencies 11:2,6	38:14,19 113:13
academic 279:4	actions 204:15	12:10 14:8,10	220:7,17,21,23
accept 210:14 254:1	activities 20:22	agency 7:11 14:19	Amazona 36:5
255:3 302:7 303:1	177:7 185:21	197:18,21 275:16	Amazonian 26:15
acceptable 112:7	189:15 202:13	ago 101:12 187:19	America 15:8,9,12
150:25 217:7	218:12 233:25	AGRA 129:14	American 87:5,6,22
acceptance 302:7	241:16 243:8	207:21 208:3	88:6 93:16
accepted 41:6	activity 185:13	209:17 210:4,6	amount 11:8 12:15
303:15	actual 155:17	212:14 219:13	14:9 69:13 112:6
access 264:22	211:10	220:13 224:10,19	139:13 152:15
accomplished	adapted 96:24	230:23 235:5,8	154:14 168:18
276:15	add 133:7 153:13	306:14	188:17 264:10
accord 240:16	158:5	agree 241:4 301:16	amounts 116:25
accounts 44:9 45:9	added 60:19 178:22	301:20 302:16	117:8 163:3
accumulate 103:21	addition 101:17	agreement 159:22	amplify 164:9
accumulated 74:18	102:23	176:6 261:22	Amunarriz 130:4
297:19	additional 4:18	Agrio 20:13,14 21:7	analyses 133:7,9,11
accumulating 69:25	175:10 274:1	27:3 31:15,16,20	133:14 134:6,7,13
accuracy 215:17	279:8	31:22 32:5 37:23	149:21,24 198:2
accurate 51:14	Additionally 302:10	38:25 65:17 88:5	analysis 12:19 23:25
54:10 58:22 68:25	address 24:7 151:6	148:13 187:5,14	49:13,19 61:4,5
98:24 106:20	176:15	209:4 226:14	133:21 134:4,15
155:8 195:15	addressed 14:21	255:10	135:7,24 136:3
231:2 250:12,25	277:15	Agua 107:18	139:4 150:13
258:14,25 259:9	addresses 14:18	Aguarico 110:8	151:2 169:8
259:15 266:5	adjourned 304:19	255:11 293:12,25	202:22,23 264:20
272:17,21 273:16	Administration	295:9,20	analytical 135:23
277:17 293:24	12:14 16:21	AGUINDA 1:11	136:2 149:13
294:4 295:21	admit 154:23	ahead 25:8 48:15,15	150:9
305:5	Adobe 235:5	74:13 191:19	analyze 24:12,19
accurately 260:21	adopt 224:22 225:16	197:3	60:25 152:18
283:7	226:8	aid 63:7	analyzed 101:23
achieved 218:24	adopted 197:24	air 125:22 126:4,10	112:23 133:3
acids 63:11	225:5 226:1	298:17	134:13 151:25
	l		

		•	•
153:10 205:1	appearance 49:24	64:19 74:7 77:11	aspect 104:8 147:18
231:8	APPEARANCES	77:21 78:5 97:7	aspects 89:10
analyzes 149:23	2:1	106:13 123:20	129:22
analyzing 14:12	Appearing 2:7,14	141:10 162:21	asphalt 136:21
24:21 60:24	2:20 290:14	166:4,5 198:24	assess 11:6 17:1
130:17	appears 39:25 48:12	199:17 203:17	18:2
Andes 220:16	50:24 53:4 64:10	205:4 220:9,18,18	assessed 244:22
anecdotal 97:15	100:3 152:25	221:8,17,21,22,23	assessing 16:21
animal 44:22 47:2	279:8	222:16 223:9,25	17:13 24:8
96:7 97:9 126:5	applicable 61:9	227:8 232:6 242:2	assessment 12:16
animals 5:18 48:2	application 222:2	243:1 288:13,16	14:15,16 15:11
298:22	applied 221:3	293:18 296:18	219:14 220:4,5
Ann 188:23,24	274:21 275:6	300:14	assessments 11:1
210:7 212:14	300:16	areas 37:5,7 39:16	14:4
273:6,14	applies 62:23 176:9	77:22 149:3,9,10	asset 244:11
annex 198:22,23	221:14 224:17	165:17,18,20,23	assigned 190:24
199:16 200:6	apply 10:5 141:8,9	199:11 203:18,18	191:2,23 192:6
201:5,6 253:15	179:9 223:19,21	204:2,8,10,11,14	assistance 273:13
answer 20:1 30:19	255:19,25	204:15 205:5	assistant 288:2
79:7 145:5 150:17	appreciate 28:24	215:13 221:3	290:12
150:18,24 165:11	189:10 301:4	227:25 244:8	associate 287:21
179:16 186:4	appreciation 53:24	260:12	associated 11:15
208:12 217:16	approach 138:8	arguments 176:1	97:18 129:12
223:3 239:2	152:14	206:18 212:9	196:18 249:24
253:11 261:2	approaching 143:23	aromatic 9:6	250:1 260:8
answered 67:7 82:8	144:14	arranged 54:5	assume 79:22
301:8	appropriate 120:14	arrival 242:6,23	107:19 119:3
answering 301:5	152:12 179:13	arrow 41:22 43:12	138:19 158:14,15
anticipated 114:19	221:11,14 222:3,7	108:21	161:7 203:2
anymore 11:18	222:8,10 223:8	arrows 154:19	285:25
98:10	229:6,7 231:10	art 11:10	Assuming 209:8
anyway 240:3	274:9 303:20	article 306:19 307:7	Atacpi 110:8
apart 146:13 259:7	approve 210:9,13	307:10,13,15	atmosphere 41:2,14
288:23,25	approved 150:12	aside 32:11 103:23	41:18 224:25
apologies 65:11	approximately 94:7	109:24 159:19	225:21 226:3,10
265:22	113:7 157:23	177:11 205:7	Atmospheric 12:14
apologize 100:19	162:24 303:4	asked 19:16 101:12	16:21
202:19 212:17	April 28:1 308:20	168:12 188:1	attached 108:22
apparatuses 41:16	aquatic 101:14,15	200:8 222:14	209:25
appear 36:20 37:17	102:3,13,20,23	234:16 266:20	attachments 306:16
38:11 70:24 130:2	103:15 299:5	291:9	attacks 111:20
136:4 235:24	area 17:11 31:20	asking 18:17 20:25	attempting 289:20
248:20 249:3	32:9,12 33:1 37:2	21:2,5 36:9 56:2	attention 10:10
283:1 289:18	37:9,12 38:4,18	92:9,12 160:2	46:19 111:10
290:8 302:5,17,20	39:1,7 50:23 54:4	293:2 302:20	145:20 219:12
	1	I	I

Γ	_	_	_
230:20 246:2	available 259:1	109:13,13 117:1	began 93:10 100:16
254:16	260:11 301:17	142:22 143:2,3	100:21
attorneys 20:4	Avenue 2:4	181:4	begins 249:23
176:7 221:10	avoided 107:10	barefoot 123:25	behalf 2:7,14,20
222:9 223:20,23	awarded 4:11	Barium 60:13	11:1,20 14:7 16:1
223:24 252:16	aware 19:16 128:22	bars 142:20,20	19:21 87:9 301:19
308:16	128:24 150:11	based 36:10 39:19	303:2
attribution 266:24	214:14,21 258:23	39:19 41:4 45:24	believe 16:2 31:23
Auca 230:10 231:4	258:23 269:18,23	51:13 55:1 59:24	48:23 89:25 95:11
231:5,11,20	axis 108:16,17 109:8	62:11 64:3 66:11	141:22 196:21
audience 124:21	110:8 157:9,11	74:24 76:6 77:10	221:2 230:22
audit 119:13,25	158:25 199:22,25	81:15 93:14 94:10	250:18 262:7,12
121:11,18,22	283:15,15	97:3 98:23 104:18	265:20 272:21
122:7,8 207:20	a.m 1:20 52:23,24	134:3 138:20	believed 258:14
208:21 210:4,11	67:2,3 93:5,6	139:6 144:16	Beltman 1:5,19 3:8
210:22 211:16,16	302:21	152:20,25 156:4,8	3:13,19 30:16 53:2
212:1 213:11		168:3 171:25	67:7 93:9 127:16
231:21 235:24	B	175:6 177:8	180:24 230:19
236:3 244:25	B 136:7 193:1	183:16 190:1	267:18 270:11,16
250:19,21 306:14	bachelor's 4:12,17	216:9 217:23	270:20,21 271:22
audited 244:25	back 36:24 42:9	218:2 225:3 231:9	272:25 273:13
245:2 246:3,12,20	46:19 53:1 59:16	243:13 255:23	276:21 279:20
auditor 127:3	63:12 67:4 79:9	262:2 265:24	281:21 286:24
251:22	84:2,7 89:8 90:25	272:3,7 273:5	301:16 302:2,20
auditors 41:15	92:15 93:8 97:24	277:3 281:12,18	302:24 303:20
audits 33:12 41:13	106:25 107:15	285:24 299:6	305:2,21 306:11
94:2,6 100:22,23	127:15 173:16	basically 40:22	306:16,19,23
108:5 118:16,20	178:24 180:10	basin 38:14 220:7	307:5,7,10,13,15
119:7 120:6,6,8,9	182:4 185:15	220:17,23	Beltman's 304:4
121:3 122:14	188:20 190:3 191:1 206:25	basing 151:8	bench 290:19,21
123:9 125:19		basis 25:1 138:16	292:16
126:22 129:15,16	212:21,22 226:24	139:7 140:12	benchmark 145:5
131:1 173:2 212:3	227:15,21 230:17 275:4,23 286:22	147:10 150:12	beneath 260:13
251:15,18	290:5,6 292:16	217:12,15 250:20	benefit 12:18 198:1
author 268:2 277:2	background 45:25	272:14	benefits 198:5
277:2 280:15	81:16 94:10 98:23	basketball 111:21	Benjamin 2:17
authored 271:8,11	134:3 169:16	Bates 28:15,18,19	benzene 45:17
273:13	225:3 262:3 268:8	28:20 29:8,10	110:22,24 111:13
authority 12:17 35:1	290:13	67:13 207:23	111:15 112:1,6,7
authorize 210:14,15	bacteria 5:18 63:10	208:15,23 bathe 77:12 237:3	112:11,18 113:4,7 115:16 117:12,12
authorized 302:16	Bailly 10:14	bathed 76:9	117:14,17
authors 204:20	ballpark 159:4	bathing 76:12 78:1	benzenes 111:22
authorship 266:23	bank 295:13	bay 9:3 15:18,23	berm 51:20 75:21
267:1,10 273:18	bar 36:1 107:18	bay 9.5 15.18,25 bears 282:1	best 42:21 121:2
207.1,10 275.10	· -	5 CHI 5 202.1	5050 12.21 121.2
II			

	_	_	
151:25 271:7	Bogus 307:7	broken 111:20	128:12 182:2
301:8	bolding 263:8,9	173:20	219:14 251:16
best-looking 51:10	borrow 270:17	brought 20:16,18	288:1
better 36:19 55:6	bottom 58:4 74:16	21:15 100:11	called 1:19 4:20
73:22 74:1 124:21	97:25 100:3 124:1	214:1	8:15 10:13 31:14
132:23 211:8	124:7 136:5	BS 4:8	32:5,20 33:7 39:2
beyond 18:17,23	156:20 163:13	BTEX 110:20,20	43:20 48:11 49:2
145:2 209:15	193:6 200:18	116:5 138:15,21	82:5 90:7,10,13
215:12 243:23	207:24 208:24	build 104:1	135:13 142:11
244:1,7 245:22	249:19 275:15	buildup 63:14 104:3	169:11 178:17
256:25 257:10	281:24 282:6,23	built 33:6,18 53:12	183:6 185:22
bgreen@zeklaw.c	294:23 295:1	64:17 68:1 105:11	193:20 196:18
2:19	296:18	108:2 118:11	197:25 203:1,18
big 12:20 85:8 91:25	bottoms 240:4	131:18,19 155:21	207:1 215:21
118:8 135:10	bought 13:4	169:22 170:4,7	265:6,10,16
bigger 77:19 99:8	Boulder 10:16	172:1 173:21,24	266:11 285:12
105:14	273:15	177:8,10 215:22	calling 233:13
BII 188:22	bound 10:10	295:10	calls 18:18 25:5 31:4
billion 94:7,13	boundaries 32:11	built-in 67:19	31:17 32:7 33:2,21
95:17 98:13	51:20	bullet 33:24 176:4	34:18 35:9,20
bioacid 228:3	box 211:5 213:1,21	176:24 177:21,24	36:21 38:16 40:5
biocides 63:9	215:9 216:20	196:21,25 197:4	41:8,25 42:17,24
biological 220:8	217:18 283:5	197:14	43:15 44:2,17,24
298:22	boxes 30:2 210:24	burn 40:23 125:23	45:4 46:5,24 48:4
bit 12:3 22:24 41:17	BP 16:24 17:2	215:14	48:20 49:15 50:9
51:18 89:4 96:15	break 6:19 52:11	burning 126:13,15	53:8 54:21 55:15
120:24 133:12	53:3 127:8,17	B-A-I-L-L-Y 10:14	56:6,16 57:3,9
135:6 140:12	131:2 133:11		58:5,6 59:10,22
158:23 163:14	158:25 180:3,14	C	60:5 61:2,12 62:17
210:20 254:17	180:25 230:12,20	C 3:2 193:1 305:1,1	63:21,22 64:14
290:6 292:1	286:13,18	CA 208:16,17	65:3,18 67:22
293:15 294:12	breakout 131:17	Cabrera 22:21	68:11,22,22 70:9
black 43:13 45:10	breaks 44:10 52:15	23:23 49:18	70:10 71:13,20
46:3 54:25 125:24	52:18	128:19,24 129:3	72:5,19 74:11,12
155:16 157:6	breathing 124:3	131:22 177:9	75:8,17 76:3,11,21
161:14 294:14	126:12	194:1 196:6,8,19	77:14,15 78:15,16
297:18	brief 159:19	197:12 198:23	79:4,5 80:2,13,14
blind 41:22	briefly 207:11	200:7	81:20 82:18 83:2,9
block 227:5	209:13 267:21	Cabrera's 181:12	84:4,19 85:6,22,23
blow 89:2,4 92:6,16	286:12	calculated 90:25	86:6,7,18,19,25
92:17	bring 213:22	95:4,8	87:13 88:11,25
blowup 37:1	broad 150:16	calculation 196:17	90:18 91:1,13
blue 38:11,13 41:21	broader 14:18 220:4	California 11:20,21	93:19,20 94:4,15
blurry 89:6	220:5	302:22	95:6,7,21,22 96:9
board 13:25	Brock 2:22	call 23:5 97:16	96:10,17 97:13,14

$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	08.2 00.2 4 21	100.14 200.4	200.14	171.05 102.2
$\begin{array}{llllllllllllllllllllllllllllllllllll$				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $, ,		,	
$\begin{array}{llllllllllllllllllllllllllllllllllll$, ,	,		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,	·	-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,	2	-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,		,	· · · · · ·
$\begin{array}{llllllllllllllllllllllllllllllllllll$			· · ·	· · · · · · · · · · · · · · · · · · ·
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			· · · · · · · · · · · · · · · · · · ·	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,	,	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,	, , ,	, , ,	· · · · · · · · · · · · · · · · · · ·
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · ·			· · · · · · · · · · · · · · · · · · ·
$\begin{array}{llllllllllllllllllllllllllllllllllll$,			-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,			· · · · · · · · · · · · · · · · · · ·
$\begin{array}{llllllllllllllllllllllllllllllllllll$, ,	,		
$\begin{array}{llllllllllllllllllllllllllllllllllll$, , ,	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	/	/		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $, , ,	-	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $,		1	,
$\begin{array}{llllllllllllllllllllllllllllllllllll$	<i>,</i>			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	·		·	J .
$\begin{array}{llllllllllllllllllllllllllllllllllll$,	·	0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			8	
153:7,8,21,22260:24,25 261:24122:13115:4 204:25154:9,10,21 157:2262:9,10 264:16carefully 126:21205:2 231:24159:13 160:20264:16 265:12130:21,24 131:4,5233:25 265:9,20161:2,10 163:5,6266:6,15 268:25258:22 264:25266:4,13 298:4164:3,4 165:8,8269:21 270:2,2265:3,14 277:6266:4,13 298:4166:13 167:4,22272:11,19 274:12281:7102:24 170:15166:7,14 169:5,6274:13 276:16carry 59:15 70:7197:7 205:21169:14 170:1,1,17277:20,21 278:25186:25212:4 241:12,16171:7 172:17279:15 281:16carrying 39:10 79:2243:8 298:15,16174:4,23,24284:2,13 287:4,24case 1:3 15:18 18:20causes 24:2,5175:20 177:23289:6 290:2,2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15cautioning 20:2183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:9306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Cautaining 20:21		,		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
159:13 160:20264:16 265:12130:21,24 131:4,5233:25 265:9,20161:2,10 163:5,6266:6,15 268:25258:22 264:25266:4,13 298:4164:3,4 165:8,8269:21 270:2,2265:3,14 277:6266:4,13 298:4166:13 167:4,22272:11,19 274:12281:7102:24 170:15168:7,14 169:5,6274:13 276:16carry 59:15 70:7197:7 205:21169:14 170:1,1,17277:20,21 278:25186:25212:4 241:12,16171:7 172:17279:15 281:16cars 123:21243:8 298:15,16174:4,23,24284:2,13 287:4,24case 1:3 15:18 18:20243:8 298:15,16178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15causing 41:17 45:21183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:9306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7306:15195:2,3 196:2,13300:19118:24 144:25CBS 287:17				
161:2,10 163:5,6 164:3,4 165:8,8 166:13 167:4,22266:6,15 268:25 269:21 270:2,2 272:11,19 274:12258:22 264:25 265:3,14 277:6 281:7266:4,13 298:4 caused 21:20 25:9 102:24 170:15166:13 167:4,22 166:13 167:4,22272:11,19 274:12 272:11,19 274:12281:7 carry 59:15 70:7 186:25102:24 170:15 197:7 205:21 212:4 241:12,16169:14 170:1,1,17 177:17 177:17 177:17 177:217 175:20 177:23279:15 281:16 289:6 290:2,24 289:6 290:2,24carry 59:15 70:7 186:25 carry ig 39:10 79:2 cars 123:21 case 1:3 15:18 18:20 18:21 19:4,18,21 19:24 20:8,9 21:15 21:23 22:10 30:9243:8 298:15,16 causes 24:2,5 causing 41:17 45:21 234:18 causing 41:17 45:21 234:18181:23 182:10 183:11 184:2,3,16 190:8,9 191:15 190:8,9 191:15 190:8,9 191:15296:1,13 298:7,8 299:19,19 300:1831:10 47:5 81:10 90:6 105:24 113:7 118:24 144:25306:15 CBS 287:17 Central 43:9 105:10			e e	
164:3,4 165:8,8269:21 270:2,2265:3,14 277:6caused 21:20 25:9166:13 167:4,22272:11,19 274:12281:7102:24 170:15168:7,14 169:5,6274:13 276:16carry 59:15 70:7197:7 205:21169:14 170:1,1,17277:20,21 278:25186:25212:4 241:12,16171:7 172:17279:15 281:16carrying 39:10 79:2243:8 298:15,16174:4,23,24284:2,13 287:4,24case 1:3 15:18 18:20243:8 298:15,16175:20 177:23289:6 290:2,24case 1:3 15:18 18:20243:8 298:15,16178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15234:18183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:931:10 47:5 81:10190:8,9 191:15299:19,19 300:1890:6 105:24 113:7306:15195:2,3 196:2,13300:19118:24 144:25CBS 287:17				· · · · · · · · · · · · · · · · · · ·
166:13 167:4,22272:11,19 274:12281:7102:24 170:15168:7,14 169:5,6274:13 276:16carry 59:15 70:7197:7 205:21169:14 170:1,1,17277:20,21 278:25186:25212:4 241:12,16171:7 172:17279:15 281:16carrying 39:10 79:2243:8 298:15,16174:4,23,24284:2,13 287:4,24289:6 290:2,24cars 123:21175:20 177:23289:6 290:2,24case 1:3 15:18 18:20234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15234:18183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:931:10 47:5 81:10190:8,9 191:15299:19,19 300:1830:1990:6 105:24 113:7306:15195:2,3 196:2,13300:19118:24 144:25CBS 287:17		-		
168:7,14 169:5,6 169:14 170:1,1,17274:13 276:16 277:20,21 278:25 279:15 281:16 279:15 281:16 284:2,13 287:4,24 175:20 177:23carry 59:15 70:7 186:25 carrying 39:10 79:2 cars 123:21 cars 123:21 cars 123:21 cars 123:21 case 1:3 15:18 18:20 18:21 19:4,18,21 19:24 20:8,9 21:15197:7 205:21 212:4 241:12,16 243:8 298:15,16 causes 24:2,5 causing 41:17 45:21 234:18 causing 41:17 45:21 234:18 causing 41:17 45:21 234:18 causing 20:2 CA1069438-1068 306:15168:7,14 169:5,6 169:14 170:1,1,17277:20,21 278:25 279:15 281:16 284:2,13 287:4,24 289:6 290:2,24 291:20 292:24 18:21 19:4,18,21 19:24 20:8,9 21:15 21:23 22:10 30:9 31:10 47:5 81:10 90:6 105:24 113:7 195:2,3 196:2,13197:7 205:21 212:4 241:12,16 243:8 298:15,16 causes 24:2,5 causing 41:17 45:21 234:18 cautioning 20:2 CA1069438-1068 306:15	164:3,4 165:8,8	· · · · · ·	· · · · · · · · · · · · · · · · · · ·	caused 21:20 25:9
169:14 170:1,1,17277:20,21 278:25186:25212:4 241:12,16171:7 172:17279:15 281:16carrying 39:10 79:2243:8 298:15,16174:4,23,24284:2,13 287:4,24cars 123:21causes 24:2,5175:20 177:23289:6 290:2,2418:21 19:4,18,21234:18178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15234:18183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:931:10 47:5 81:10184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Caurral 43:9 105:10	166:13 167:4,22	272:11,19 274:12	281:7	102:24 170:15
171:7 172:17279:15 281:16carrying 39:10 79:2243:8 298:15,16174:4,23,24284:2,13 287:4,24cars 123:21causes 24:2,5175:20 177:23289:6 290:2,24case 1:3 15:18 18:20causing 41:17 45:21178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15234:18183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:9CA1069438-1068184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	168:7,14 169:5,6	274:13 276:16	carry 59:15 70:7	197:7 205:21
174:4,23,24284:2,13 287:4,24cars 123:21causes 24:2,5175:20 177:23289:6 290:2,24case 1:3 15:18 18:20causing 41:17 45:21178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15cautioning 20:2183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:931:10 47:5 81:10184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Causes 24:2,5	169:14 170:1,1,17	277:20,21 278:25	186:25	212:4 241:12,16
175:20 177:23289:6 290:2,24case 1:3 15:18 18:20causing 41:17 45:21178:13 181:9,22291:20 292:2418:21 19:4,18,21234:18181:23 182:10293:10,10 295:219:24 20:8,9 21:15234:18183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:931:10 47:5 81:10184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	171:7 172:17	279:15 281:16	carrying 39:10 79:2	243:8 298:15,16
178:13181:9,22291:20292:2418:2119:4,18,21234:18181:23182:10293:10,10295:219:2420:8,921:1520:2183:11184:2,3,16296:1,13298:7,821:2322:1030:931:1047:581:10184:17189:22,23298:25299:1,1831:1047:581:10306:15306:15190:8,9191:15299:19,19300:1890:6105:24113:7CBS287:17195:2,3196:2,13300:19118:24144:25Central43:9105:10	174:4,23,24	284:2,13 287:4,24	cars 123:21	causes 24:2,5
181:23 182:10293:10,10 295:219:24 20:8,9 21:15cautioning 20:2183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:9CA1069438-1068184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	175:20 177:23	289:6 290:2,24	case 1:3 15:18 18:20	causing 41:17 45:21
183:11 184:2,3,16296:1,13 298:7,821:23 22:10 30:9CA1069438-1068184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	178:13 181:9,22	291:20 292:24	18:21 19:4,18,21	234:18
184:17 189:22,23298:25 299:1,1831:10 47:5 81:10306:15190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	181:23 182:10	293:10,10 295:2	19:24 20:8,9 21:15	cautioning 20:2
190:8,9 191:15299:19,19 300:1890:6 105:24 113:7CBS 287:17195:2,3 196:2,13300:19118:24 144:25Central 43:9 105:10	183:11 184:2,3,16	296:1,13 298:7,8	21:23 22:10 30:9	CA1069438-1068
195:2,3 196:2,13 300:19 118:24 144:25 Central 43:9 105:10	184:17 189:22,23	298:25 299:1,18	31:10 47:5 81:10	306:15
	190:8,9 191:15	299:19,19 300:18	90:6 105:24 113:7	CBS 287:17
	195:2,3 196:2,13	300:19	118:24 144:25	Central 43:9 105:10
197:22,23 198:8,9 Caivin 3:25 148:7 155:24 112:17 113:2,7,22	197:22,23 198:8,9	Calvin 3:25	148:7 155:24	112:17 113:2,7,22
198:20,21 199:13 Camacho 2:15 157:7 165:11 232:24	198:20,21 199:13	Camacho 2:15	157:7 165:11	232:24

	I		
certain 54:2 215:1	chemical 6:23 24:3	306:20 307:7,13	cleaning 122:11,12
certainly 16:15	60:13 61:4,5,6	Chevron-Texaco	cleanup 7:24 8:18
17:12 22:1 26:11	96:12,14 107:11	20:20,22 129:13	17:17 24:8,22,24
45:19 55:19 67:17	115:10,15 133:3,7	129:21 260:4,15	24:25 119:14,15
70:18 77:6 79:17	133:20,22,25	Chevron-Texaco's	120:10,24 121:13
83:16 95:11	134:15 135:4,5,24	255:22	121:15 129:22,23
118:20 126:10	136:3 138:14	Chicago 7:12	129:25 160:3,5
139:9 140:18	139:7 260:6	China 14:25 15:12	175:15,18,22
175:4 186:24	chemically 101:23	choice 291:1	176:1,13,21,24
214:20 219:5	chemicals 5:15,16	choose 98:5 110:23	177:5,6,14,25
227:14 234:16	5:21 9:1,21 11:15	chose 98:22 159:20	178:5,12,21 179:5
249:11 270:4	11:24 44:15,21	chosen 164:1	182:15 185:5,17
273:18 302:15	46:21 47:1 48:1,7	chronologically	185:20,21,23
CERTIFICATE	60:4,9,19 63:4,6	12:3	186:7 187:2,3
308:2	63:15,19 64:1,5	chunk 135:20	188:13 189:14,15
certification 253:20	65:6 70:6,7 79:2	circle 37:3,12 73:10	189:16,18,21
Certified 1:22,23	133:5 139:8 151:9	73:23 74:2 100:3,5	191:8,9,10,24
certify 305:2,4	151:10 216:21	157:6	192:5,7,13 214:7
308:4,9,14	229:17	circles 155:19	218:12,14 272:1,2
cetera 110:8	chemist 6:7	circumstances	273:25 274:1,5,25
CFO 13:23,24	chemistry 4:6,8,18	121:23	276:8,15,24,25
chance 188:19	6:9 70:11	cistern 231:7	277:10,15,25
200:14	Chevron 1:8 20:16	cited 108:3	307:11,13
change 14:6 15:5,7	21:17 28:14 53:10	city 31:14	clear 12:5 19:7
15:9 166:7 180:1	128:18 136:24	Civ 1:3	63:14 65:25 66:18
201:23	137:1 148:8,8	Civil 1:18 301:22	67:9 78:17 85:25
changed 93:2	149:2,7,8,14,24	claim 20:20 273:18	164:15 177:5
changes 273:10	150:4,20 152:5	claims 266:11	195:12 228:19,22
channel 250:23	153:2,10 154:5	clarification 136:11	clearly 51:19 109:25
251:6,8	165:5 167:11,15	303:14	click 73:9
chapter 252:21	168:1,5,21 195:14	clarify 159:9 303:5	client 302:4,6,10
255:19,23,25	195:18,22 206:13	303:10	clients 12:4,7,9,20
character 115:5	206:18 279:12	classes 5:8,11,24	13:5 176:9 252:16
Characteristic	282:14 301:24,25	classified 204:3	climate 14:6 15:5,7
178:18	302:5,13	clause 34:8 239:11	15:9
Characteristics	Chevron's 147:21	clean 10:9 17:20,22	clips 291:13
273:24	147:25 148:15,25	24:23 118:23	close 77:5,8 113:23
characterization	156:9 163:16,18	119:8 120:5 160:3	158:19 161:8
146:8	163:24 164:11,14	173:5 177:12,19	200:10 285:4
characterize 144:18	164:17 166:17	182:17 223:1	288:16
characterized 140:9	168:19 175:25	260:15 278:7,11	closed 62:5 171:12
220:21	194:2 195:15	278:16	171:18 245:8
characterizing	206:4,9 263:18	cleaned 179:2	closely 16:12
145:2	266:11 277:10,15	216:22 218:11	closer 149:5,10
charge 23:5 35:5	277:25 282:15	cleaner 183:23	164:17 168:23
	I	I	I

200:13 201:10	collections 130:8	communications	completeness
270:8 294:21	college 3:24,25	20:3	189:21
closest 77:2,3 202:3	colon 224:5	Communitaria	completion 238:8
closeup 290:8 294:9	color 37:18,21 41:21	130:3	compliance 86:4,23
296:7	54:25 254:5	Como 285:25	213:23 214:2
closing 62:8	Colorado 1:21,24	companies 34:12	234:3,9,14,19
clothes 237:3	10:16 273:15	companion 204:20	complied 25:24
CLT 308:22	302:22 308:1,6,23	company 6:6 10:13	223:7
coast 39:10,11 43:19	colored 37:3	10:15,15 12:6 13:6	component 275:22
118:8	colors 38:1	13:16,17 119:1	components 60:18
Coca 38:25	color-coded 37:8	209:15 229:8	72:23 103:16,18
CODEL 307:4	column 136:12	282:14	104:5 133:4
Colegio 130:12	142:1 190:12,12	compare 146:11,18	138:14,14 150:3,5
collect 23:19 69:22	191:12,18 192:4	152:18 184:9	150:6,7,21,22
70:13 129:17	192:10,19 193:4	compared 14:15	151:1 152:21
149:2,5 164:23,24	193:12,15,20,21	88:19 148:8	153:3
166:5 168:21	193:23 194:7,7	172:19 183:23	comport 94:20
collected 23:20,22	195:13 285:12,15	203:16 221:7	comported 94:14
23:23 78:20 106:7	columns 193:1	compares 264:5	comports 243:15
112:22 113:1	come 6:23 53:24	comparing 104:22	composite 179:13
114:6,10 128:16	59:17 93:1 124:8	109:21 139:22	composition 96:12
128:19,20 129:8 129:24 131:16	133:13 198:22	144:23 146:4,5,9 146:25 169:8	96:14 107:11
129:24 131:16 132:14 133:18,20	216:3,16 259:8 269:9	222:20	compound 25:7 116:20 117:13
132:14 135:18,20	comes 31:10,24	comparison 109:25	224:12
134.12 135.18	40:10 42:2 49:17	117:4 147:21,23	compounds 6:15
147:12,19,20	49:25 89:11,14	173:18 184:1	110:22 111:3,6,10
148:5 149:7	90:3 106:8 113:17	285:9 299:7	115:18 116:5
153:10 156:5,9,24	113:19,22 148:25	compelling 204:23	117:6,7,16 260:6
157:5,13 158:12	192:12 193:24	205:6	comprised 187:21
161:13,15,17	192:12 193:21	compensation 24:9	comprises 36:1
162:19.23 163:15	291:24 292:2	competence 134:5,6	con 285:12
163:18,20,24	295:14 297:16	134:22	Concentracion
164:11,12,16	coming 29:10 40:19	competent 27:5	285:16
166:16,17,19,20	48:16 70:12 99:24	compiled 289:9	concentration
167:7,11,14 168:1	99:25 106:5	complain 112:1	102:11 103:25
168:1,20,23	114:12,13 115:6,7	complete 113:14	109:1 138:12
182:18 189:16	169:18 239:5	192:10,14,17	142:17,21 143:3
199:1 215:11,23	292:5	193:3 253:10	143:19 144:3,6,18
227:22 244:6	commencement	254:8,14	157:8,11,17
270:7 279:2 297:4	308:7	completed 127:17	158:22,24 161:24
297:19	commencing 1:20	192:21,23	193:17 195:9
collecting 296:23	commission 305:25	completely 125:2,23	222:4 283:25
collection 61:5	308:20	179:7 274:10	286:5
164:20	common 26:8 82:22	276:11	concentrations

	1	1	
102:7 108:7 115:5	278:18 299:20	connects 40:13	60:3 77:12 215:10
115:23,25 117:15	conclusions 7:21	Connor 282:8,12,13	245:8 293:23
144:13 178:16	23:14 25:2,12	282:17 284:9	contained 48:1
182:23 185:6	26:13,21 175:20	307:18	89:14 101:18
188:13 193:15	190:1 205:3	consent 302:4	103:5 108:19
222:15 260:5,18	234:11 251:21	consider 52:3	110:1 142:12
283:13 285:10	259:20,21 262:7	128:24 129:4	187:13 188:7
concern 110:2,5	262:14 299:3	152:12	218:3 260:7 262:7
concerned 124:15	concoction 59:13	consideration 91:8	containing 233:4
304:12	condition 299:15,25	considered 24:24	contains 45:17
concerning 130:17	conditions 219:23	117:1 120:14	131:10 271:15
253:21 262:4	219:24 275:5	145:23	contaminant 9:6
concession 21:20	276:5	consistent 62:15	contaminants 78:6
25:4,14,14,24	conduct 192:5	126:15 213:13,14	243:23 244:1
30:23 32:6,9 33:1	conducted 22:21	213:18 215:25	248:19 249:2
37:2 38:5 42:23	24:6 100:23	216:24 217:4	260:18 275:3
43:24 47:13,16,23	112:25 128:14	228:5,11 230:1	contaminate 61:20
49:20 60:24,25	129:20,23 133:21	232:10 237:14,19	71:12,18 84:14,25
61:11 62:13 69:7	134:13 172:19	237:22 238:11	86:11,15 96:2
82:12,17 86:17	175:1 176:2 177:7	242:4 243:19	107:8
93:11 113:24	178:21 183:20	247:1,8,13,17,18	contaminated 9:2,9
138:19 159:23	187:2 207:1,13	249:4,10,13	11:14,23 15:23
190:17 198:25	214:13 218:11	300:25	24:23 25:3,13
199:18,19,20	228:1,4	consistently 61:17	26:15 27:1 44:10
203:3 207:2,13	conducting 11:1	consortium 34:9,12	48:25 56:20 74:16
220:19 232:6	14:4 26:9 177:25	34:15 214:13	76:1,5,18 77:13,18
242:1 243:9	confidence 283:9	219:15 234:2	78:5,12,18,25 80:1
255:11,15,20	confidential 207:23	constitutes 308:12	80:11,16,18 81:3
257:8,25 258:7	208:24	constructed 56:23	81:10 82:3 83:18
268:1 275:18	confined 245:9,21	64:11,12 66:9	95:19 166:1
280:3 288:12,16	confines 243:23	67:19 83:12	174:13 175:4,4,6,9
300:14	244:2,7	consultants 273:14	260:4,14 275:11
concessions 26:15	confirm 215:16	consulting 10:15,15	contaminating
conclude 134:10	confirmatory 182:8	11:5,19 12:6,7	16:18
135:8 176:20	182:21	14:1,2 18:12 20:12	contamination 16:5
189:19	confirms 278:15	22:2,11 30:5 189:1	16:8,17 17:9,14,23
concluded 48:6	Congratulations	209:15 262:24	18:3,7 21:18 23:17
168:9 178:11	4:15	266:22 273:15	23:18 24:1,2,3,5,7
245:3 251:18	congressional	282:14 306:18	24:10,14,20 25:10
299:8 300:6	270:25 271:1	contact 70:1,6 100:8	25:21 41:17 48:12
conclusion 25:18,20	connected 157:6	111:7 124:8,17	49:3,6 65:6 72:22
25:23 26:4 78:18	161:14	287:13,15	78:21 79:9,11,16
109:17 172:3	Connecticut 2:4,18	contacted 287:12	79:18,20 80:8,12
222:6,11 241:4	connection 175:18	contain 44:15,21	80:21 81:7,18,19
250:19 261:20	187:5	46:21 48:7 54:10	83:7 84:10,13
	I	I	I

89:13 94:22 96:7	266:18 272:3,9,10	207:22 235:4	308:15
115:5 117:24,25	272:15 273:5	252:21,24,25	count 49:25 180:17
118:4 119:9 126:1	274:23 280:17	254:5,8,8,8,9,14	180:19 231:14
127:7,19,22,25	281:2,3	254:17 255:5	counteract 206:19
128:3,8 130:18	contents 68:4 74:10	corner 31:12 50:7	counties 31:7
138:5 139:22,23	74:21 78:7 255:24	58:4 68:8,9 281:25	country 8:19 141:9
141:16 142:3,25	280:4	282:7	counts 33:13
145:8,19,23,25	context 152:3	CORPORATION	COUNTY 308:3
148:6,9,10,14,16	211:21 213:17	1:8	couple 92:1,3
150:10 152:15	214:19 258:7	correct 13:1 16:6	100:23 103:17
154:1 164:14,25	284:14 285:23	19:9,22 20:10 30:3	159:9 261:14
165:14,19 166:4	continue 131:8	33:23 36:12 37:19	294:20
168:18 169:17	155:11 227:20	37:22 38:3 50:14	course 9:18 43:23
170:14,21,24,25	294:15 296:19	50:15 67:11 80:1	52:17 53:21 55:11
171:4,14,15,19	297:12,22 299:17	87:2 101:16	60:23 63:24 82:6
172:4,7 173:20,23	300:2	107:21 108:14	85:18 97:6 118:8
174:2,7,14,21,21	continued 173:7,25	110:18 113:18,25	123:4 130:16
175:10 177:12	continuing 231:15	130:6 138:25	138:17 144:12
182:20 184:5	292:13	139:1,3 154:11	171:16 180:4
202:24 211:17	contract 17:1,3	164:20,21 166:8,9	187:13 209:3
212:4,10 215:12	32:12 191:9	185:15 188:2	213:14 214:1
215:13 216:3	contracted 282:14	194:22 224:1,2	230:13 232:20
217:19,24 218:4	contractor 129:21	225:20 235:11,13	239:5 241:3 302:6
218:10,25 219:8	186:10	255:13,13 261:19	court 1:1 22:4,5,6,8
222:20,22,23	contractors 33:13	264:23 269:5	22:23 131:21
223:7,9,18 233:25	contracts 21:25	271:17 275:21	135:2 166:19
237:1 243:8,10	contribute 79:19	284:22,24 303:3	193:25 253:22
244:8 247:11	80:21	304:8 308:13	254:4,10,17,19,24
250:10,17,23 251:15,19 255:9	contributed 170:16 205:9,22 299:9	Correction 305:7 corrections 305:6	255:2,5 282:1,2,2 284:9 304:9
257:4,7,23 260:9	contribution 13:12		courtesy 301:4
260:16 266:2	control 8:8 88:15,24	correctly 286:4 correlation 133:14	court-appointed
269:12,19 270:4,5	136:22	correspondent 71:7	23:23
270:6,9 274:10,25	controls 256:8	287:19 288:4,5,17	cover 30:1 188:21
275:25 280:2	convenient 304:11	288:21 290:15,20	194:20
289:9,12 291:11	conversation 254:20	291:7,22 292:8,20	covered 58:14
293:5,5 298:5	conveyed 35:19	294:19	216:22 293:16
299:9 300:8	cooling 14:6	correspondents	covering 69:20
307:16	coordinates 156:8	287:17	covers 255:13
content 96:22,25,25	copied 193:7 203:9	Corte 253:7	Craig 2:9 208:9
97:2 102:22,24	235:6	cost 12:18 17:14,17	create 276:1
103:16,24 104:23	copies 209:9	17:20,22 198:1	credit 273:18
108:1,7 109:5	copy 27:15,16,19	counsel 186:18	creek 292:4,5,7
219:7,7 263:4,12	28:13,18 186:17	301:16 302:2,5,13	creeks 213:3,13
263:25 264:13	192:24 193:6	302:25 304:1,3	232:3,5,13
		,	

creosote 9:5	307:9	132:11,14 139:21	34:6 35:4
criteria 285:10	CVX-RICO-2204	142:16 147:9,9,18	de 36:5 107:18
crossings 76:23	307:12	147:19,20,22	130:3 253:7
cross-examination	CVX-RICO-2207	148:20,23,25,25	dead 97:17
301:14,17,23	306:24	149:13 151:25	deal 11:11,14
302:17 303:13	CVX-RICO-2268	156:10,11 157:5	121:14 137:8
crouching 292:8	29:6	158:9,17 159:1,9	196:10 217:7
CRR 308:22	CVX-RICO-2268	164:8,10,11,13,14	dealing 96:24
crude 39:11 40:1,10	306:12	166:14,15,15,17	dealt 16:16 85:13
40:16 42:4,8 43:12		166:18 167:17,19	217:5
43:17 44:14 45:16	D	168:4,19,19	death 196:11
45:16 46:2 50:24	D 2:10 3:2 306:1	173:20 175:11	deaths 196:10,19
50:25 90:9 135:21	damage 12:16	181:10 182:22	197:6,7
144:12 215:12,24	248:17,25	183:2,14,16,22	decades 20:21 84:2
216:1,6,11,14,15	damages 11:9 17:19	184:10 185:10	249:13
240:4,10 260:7	17:20	187:12,17,17,21	decided 20:7 177:19
276:12	damaging 46:4,8	188:5 189:15	deciding 8:1
Crutcher 302:22	danger 104:17,20	193:21 195:20	decision 129:1 178:5
csmyser@skv.com	105:2 117:8 124:8	198:22 200:6,12	220:25 221:9
2:13	dangerous 47:2 48:2	201:9,14 202:22	266:25
cum 4:11	217:22,25 218:16	202:24 203:13	decisions 35:1,7,15
curious 186:7	dangers 47:11	204:21 206:19	declare 182:16
current 19:5,21	104:14	218:19,22 219:4,4	declined 19:20
44:11 213:23	dark 41:21 43:13	221:7 228:14,15	decrease 153:20
214:2	109:13	230:6 243:19	decree 214:15 224:4
currently 13:20	data 23:16,19,20,21	244:6 257:2 258:5	224:7,18
16:25 82:22 85:16	23:22,22,24,25	258:6,22,25 259:7	deep 158:21 172:23
curves 51:23	45:7,13,20 47:6,11	259:8,9,15 260:11	294:24
cut 59:16 235:8,9	47:19,20,21,22	260:14 276:23,25	defendant 19:24
236:2	57:4 61:6 70:11,20 78:20 79:8,15,18	279:2,3 280:2	20:9
cuttings 59:15	96:11,13 97:3	281:14 284:16,18	Defendants 1:12,19
CVX-RICO 67:15	101:22 102:19,21	284:20,21 285:1,3	2:14 D f 26 5
CVX-RICO-1021	101.22 102.19,21	289:8,11 291:9	Defensa 36:5
307:19	107:25 108:3	299:7 307:15	define 13:14 267:11
CVX-RICO-2026	107.25 108.5	database 132:14	defined 199:5
306:13 CVX-RICO-2196	112:5,16,21,22	203:15 269:7,9 data 2:2 28:1 106:25	278:11
	112:3,10,21,22	date 3:3 28:1 106:25	defining 136:17
306:17 CVX-RICO-2201	116:8,19 126:12	155:15 304:2,10 dates 49:21	definitely 165:16,19 definition 8:14
306:21	127:7,21,25 128:2		248:9
CVX-RICO-2201	128:7,8,16,18,19	day 58:23 106:21 290:7 292:7	248.9 definitions 8:14
307:16	128:20 129:8,17	290.7 292.7 295:22 305:23	Degrade 119:20
CVX-RICO-2202	129:24 130:8,10	308:19	degrades 119:20
307:14	130:16,17,20,25	days 76:15 138:10	degree 4:7,10,17 5:6
CVX-RICO-2202	131:1,2,3,5,16	day-to-day 23:6	7:6,8 134:21 257:6
		aug to aug 25.0	,.0,0 10 1.21 20 7.0
	-	-	-

			I
257:23	deposed 302:11	192:1,6	difference 54:24
del 282:8 307:18	deposition 1:5,18	designed 83:7 84:24	149:13 168:18
delegation 270:25	301:25 302:23	86:11,15 231:6	173:1 174:12
271:1	303:12 304:11	despoiled 20:22	183:22 184:8
delicate 221:3	308:9	detail 71:4 73:2	differences 82:24
delineated 260:10	depositions 304:2	detect 118:18 173:4	83:1,4 115:3
Demandante 162:19	depth 90:16 131:7	Detectada 285:16	148:24 149:16
166:16	157:12,16,20,22	detected 153:3	164:10
Demandantes 164:2	158:11,20	163:23 285:9	different 8:13 12:8
167:2 168:19	describe 21:4,13	286:5	18:9 28:10 37:5,6
194:3	40:2 49:4 59:1	detections 163:20	48:24 49:21 51:1
Dematteis 50:13,17	85:24 120:1,9,10	determination	51:18 60:12 61:21
50:18	121:10,12 122:6	78:14	74:15 88:3 89:10
demonstrate 72:18	123:9 165:13	determine 42:22	90:15,21 91:18
demonstrates 278:6	211:12,13 267:22	47:25 66:8 78:11	115:4 120:4
Denver 1:21 302:22	268:8	82:14 85:19 88:5	124:23 130:6,7,9
308:3,23	described 14:3	97:8 121:3 123:5	133:3 142:16
Department 12:14	45:10 62:16	140:3 152:13	150:1,1 158:18
17:5	104:14,18 109:10	159:20 164:24	163:14,16 176:25
depend 102:11	118:20 129:10,15	165:25 189:9	178:4 183:15
223:2	224:19 243:1	222:15 223:7	190:17 191:2,2
depending 62:6	245:20,22 272:14	273:3,25 274:24	200:8,22 235:25
83:23 120:22	273:7 298:4	297:10	284:18
223:17	describes 45:8 49:22	determined 35:2	differently 259:6
depends 83:11	67:25 129:22	247:22 248:5	difficult 146:7
102:7 134:11,12	171:23 198:23	determines 304:9	difficulty 154:15
140:12 146:4	232:14 267:24	determining 16:13	direct 46:18 164:23
150:17 151:5	268:20 270:23	develop 55:12 63:4	219:11 246:2
165:24 222:8	271:25 273:2	developed 17:8,13	253:3 254:16
223:13	276:23	17:24,25 23:24	directed 165:4
depict 98:17 118:10	describing 40:8	24:4 62:19,24	directing 165:3
depicted 76:17 79:1	56:19 64:6 191:23	84:15,15 94:24	230:20
81:11 91:23 97:24	196:17 257:2	172:2 234:17	direction 271:11
157:12	292:2,22 293:3	242:19 277:5	280:6
depicting 75:18 98:4	description 21:6	developing 57:14	directions 156:15
157:4 163:15	49:2 57:21 122:5	development 11:23	directly 41:1,14
depiction 98:25	132:23 256:7	51:2 58:16 139:4	42:10,16 43:4
depicts 40:7 78:6	292:14 306:9	171:5,21 172:5,9	98:19 228:13
100:6	307:2	173:11 242:3	235:7 239:17,22
deponent 2:20 73:5	descriptions 41:10	243:7	directors 13:25
73:7,11,14 74:3,6	45:9 56:8,10 59:24	diagram 92:13	dirt 55:2,23 120:1
89:2 92:6,15	63:24 75:2 122:16	dialogue 70:23	120:13 121:10
162:16 180:2,5	designated 8:16	diameter 68:18	123:10,25 124:25
221:20,23 301:12	22:3,8	105:13	178:1 240:10
308:8	designation 191:22	diesel 286:1,6	disagree 241:4
	I	I	I

	I	I	I
302:19	88:23 90:2,6 92:19	272:10 273:2,4,8	267:24 270:23
discharge 76:7	93:17 228:2 237:9	273:20 275:20	272:7 273:9 277:6
77:13 94:12 95:17	263:19 265:7,10	276:23 277:5,9	281:10 287:14,15
97:11,19 98:25	298:3 306:21	279:9,10 280:1,4	306:16,22
106:24 125:5	dispose 35:8 63:25	280:16,21 281:2,6	Donziger's 266:25
217:21 219:9	72:13 238:19	281:13,25 284:3	dot 158:10,18
227:23 228:17	264:7	285:23 303:3,11	161:14 283:24
229:9,15 237:21	disposed 62:12,14	documentation	dots 156:1,3 158:16
239:4,16 247:11	63:19 64:5 85:14	67:25 242:16	284:5
250:10,17,24	233:5 238:9,9,17	268:6	dotted 143:5,7
251:6,8 256:8	disposing 90:7	documented 112:2	double 192:16
298:23	dissolve 115:17	173:1 266:2	Douglas 1:5,19 3:8
discharged 27:4	distance 200:1	documents 28:10	3:19 273:13 305:2
75:15 81:13 94:7	distances 156:18	33:10,11 34:5,11	305:21
96:4 98:9,10,14	distill 212:5	35:11 40:25 41:12	downstream 70:14
101:25 105:16,23	distinction 219:20	64:4,6 65:24,25	77:22,25 80:22
107:14 110:1,5,15	distinguished	66:17 67:8 74:23	103:21 104:1
111:9 213:3,13	246:17	84:21 85:1,24	216:4,15,15
232:9,16,19	DISTRICT 1:1,2	87:24,25 100:20	291:24
236:18 239:8	ditches 227:23	100:22 119:7,13	dozen 48:13
246:24 299:4	diverse 220:21	119:25 121:12,18	Dr 273:8,14,19,22
discharges 76:18	diversity 220:8	121:22 122:3,7,8	draft 267:8
77:18 80:16,19	221:17	172:21 178:20	drafting 267:12
213:22 236:6	diverted 227:21	191:23 192:13	drag 74:5
238:1	232:8	208:10 210:1,5,21	drainage 54:7 75:23
discharging 77:4	divulge 20:3	240:11 274:4	292:3
95:2 98:19 99:7	dizziness 111:20	280:16 303:3,6,21	draining 296:10,12
113:12 219:6	112:2	doing 6:9 76:13	drains 227:9,9
disclose 145:11	document 28:3,7,13	85:16 102:18	229:10 295:14
discuss 20:11	29:11 30:17 67:13	125:20 130:17	296:15
128:21 287:17	88:9 129:22	145:6 160:5	dramatic 168:18
discussed 30:8	167:13 183:11	163:16 177:25	201:23
107:1 131:1	189:9 190:1	178:2 187:13	draw 73:9,13 179:3
138:15 161:9	192:25 193:8	195:15 214:6	179:21
175:14 177:17	200:4 210:1,3,4,6	222:21,22,24	drawing 235:19
180:14 254:13,18	210:8,9,16,22	223:2 244:2 287:1	drill 33:1 55:22
264:9 286:11	211:21 212:14,15	289:19 290:11	59:15 60:21 93:10
discussing 187:7	213:10 219:14	dollar 196:18	173:7 211:18
188:12 291:6	224:14,19 235:3,4	197:25 198:1,5	drilled 33:5,5,17
discussion 127:24	235:7 245:13	Donziger 1:14 27:24	172:2 173:8
disk 93:7 127:14	253:21 254:23	209:25 210:10	300:17
180:11 230:18	260:1 261:4,10	211:24,25 230:21	drilling 37:10 55:3,5
disposal 59:8 61:9	262:23,25 263:1,2	235:12,22 236:2	55:8,14,21 57:13
64:18 71:24 72:4	264:3 268:2,5	244:17 246:2	58:16 59:8,8,12,14
85:20 86:1,12,16	271:25 272:3,4,6	251:12,17 263:1	59:17,18 60:1,3,10
	I	I	I

60:12,14,14,25	129:16 138:10	149:21 152:19	219:8 260:15
61:7,9,11,19 62:12	175:14 183:7	159:22 163:4	either 9:1 11:4
62:20,25 74:15	187:19 196:7	169:3 176:6	42:10 60:20 70:14
75:5 85:17 171:4	215:21 217:12	220:15,16,23	74:17 113:23
171:20 172:5,8	232:25 233:13	223:19 229:10	126:5 132:12
173:8,10 214:12	240:9 254:14,18	234:20 253:1	134:21 140:23
233:4,15	258:8 261:14	254:10 255:11	164:23 169:18
drink 104:7	280:7 284:12	263:19 264:8	174:8 179:23
drinking 80:25 81:2	286:3	268:12 287:2	184:6 193:25
112:11 115:21	early 26:8 49:22	288:3,4,12,20	209:18 227:21
117:18 236:14,15	84:8 88:14 115:2	291:16 299:16	232:23 293:4
237:5 299:8	198:4 258:4	300:2,10 307:4,11	El 38:25
driving 76:24	earth 64:10	Ecuadorian 21:16	electronic 235:5,18
DRO 285:25,25	earthen 51:20	22:4,5,6,12 43:21	235:20
drop 243:4	easier 54:25 63:13	109:4,14,21,25	electroplating 9:8
drops 201:21 202:6	162:17 224:15	137:15 139:24	element 233:20,21
due 24:9	east 38:19 156:15	141:6 143:6,11	elicit 30:16
dug 64:19	eastern 220:15	145:1 146:5,19,19	eliciting 18:19
duly 3:9 308:8	Eastman 6:6,18	154:8 159:16	eliminated 176:3
dump 43:4 84:8	east-west 39:9	166:23 167:2,3	eliminating 218:24
dumped 9:1,10 42:8	easy 73:15 236:1	169:8 217:21	elimination 184:14
42:16 51:3 57:19	eating 271:14	218:5 221:1 234:4	ELLMAN 2:16
58:15 60:2 68:4	ecological 5:17 7:23	234:9 278:12	employed 308:15
72:8 102:2 103:20	8:5 10:1 110:3	279:2 284:12	emptied 226:18
165:18 228:13	221:18	298:5 301:20	empties 75:22
233:14 239:22	ecologist 7:19	Ecuadorians 19:21	emulsion 276:2
dumping 43:2 46:19	ecology 96:20	Ecuador's 95:19	enabled 78:13
77:7 84:11 103:22	economically 16:14	edge 158:19 294:21	encountered 54:11
120:13 172:24	economics 16:9	edges 51:21 66:14	endemic 220:22
229:19	economists 16:12	edited 267:9	ends 79:11
dumps 83:19	ecosystems 141:7	education 4:18 17:7	Energy 279:2
Dunn 2:2 302:21	221:15	262:3	engaged 240:15
duration 248:19	ecotoxicology 5:12	effect 5:20 25:25	engines 282:19
249:2,11	5:14,19	86:24 103:7	English 253:22
dust 240:11	Ecuador 18:13	effectively 149:22	enter 127:20
dying 198:4	20:13,16,17,19	276:15	enters 292:3
D.C 2:4	21:18,21 22:17,20	Effectiveness	entire 49:20 69:7
D.E.E 282:8	26:10 30:12,21,22	307:11	189:8 212:14,15
E	31:6,8 32:13,21,24	effects 5:21 111:25	entitled 30:5 107:17
E 2:3 3:2,2 305:1,1	34:2,13 35:24	efficacy 184:13	132:19 147:2
306:1	43:20 65:21 74:23	189:20 276:14	198:17 280:1
earlier 15:20,21	82:21 83:6 91:17	effluent 231:8	304:9
59:2 66:17 67:8	94:13 95:3 108:22	effort 206:19 211:10	entity 34:2
82:24 98:7 107:1	112:25 123:16,17	212:5,13 241:20 efforts 120:24 121:4	entry 226:13 environment 5:17
02.2170.7107.1	137:18,23 141:1	CHURTS 120:24 121:4	environment 5.17
	I	I	

			1
11:7 16:8,11 17:9	280:2 298:4 299:4	et 1:11,14 110:8	examined 3:9
17:11,12,15 18:3	299:7 307:15	112:23	examining 139:13
20:23 21:19 25:3	environmentally	ethylbenzene	206:20
25:12 41:6,11	229:20 231:24	110:22,24 116:2	example 10:9 16:24
44:15,16 45:3,14	EPA 8:17,22 9:18	116:15,25	37:9 51:12 71:8
45:18 46:4,8 47:3	9:20,23 10:12	EU 15:1,12	75:20 112:2 151:7
48:3,8,25 49:5	12:15,17,19 14:10	evaluate 17:22	198:3 223:16
56:21 61:20 70:8	15:24 105:1	23:16 183:15	268:10
71:12,19 72:24	107:13 112:6,10	234:16 307:11	examples 194:15,24
83:7,19 84:25 95:5	115:21 116:12,22	evaluating 16:7,10	195:5 257:6,22
95:20 103:20	117:18 275:16,25	17:8,17 222:3	exceed 115:23
107:9 111:9	299:8	274:9 276:14	147:14,15,19
119:17 120:11	EPA's 104:23	evaluation 175:18	148:7 153:13
121:1,5,25 122:11	Epidemiologia	219:17,18 258:5	163:4 179:5
124:16 135:22	130:3	evaluations 145:17	181:18 275:11
136:2 145:25	epidemiological	evaporates 69:24	exceeded 109:14
146:21 212:10	197:11	evaporation 227:24	140:5 147:12
215:2,4 217:22	equal 248:8	evenly 38:4	154:7
218:1,16,25 219:6	equipment 55:1,23	events 122:5,15	exceeds 109:13
221:4 231:25	232:7,23	eventually 38:19	117:18 194:25
246:24 251:19	equivalent 32:11	75:23 84:12	exception 180:23
256:9 260:19	error 262:8	106:12,15 213:3	305:6
298:15	ES 189:5	213:12 287:16	excess 148:14 153:4
environmental 5:2	escaped 119:16	evidence 66:14 82:2	169:3 196:19
5:11,13 7:11 11:1	Esmeraldas 43:13	195:8,17 206:4,11	197:6 240:12
12:9 13:2,3 14:2,4	43:19	206:19 211:8	exclude 152:5
14:5,13,15,16,20	especially 76:15	230:6 237:25	excluded 9:15
14:24 15:11 16:4	84:13 111:14	238:20,22,24	excluding 150:12
16:21 17:1,19,22	301:23	239:15,21 269:12	153:2
18:1,6 21:18 23:17	Esq 2:3,3,9,10,17	276:23 278:6,15	excuse 37:15 66:23
25:21 33:12 84:12	essence 35:5 86:10	278:22 279:1	90:12 129:7
84:23 89:13 94:9	87:24	299:2	211:16 244:15
94:21 95:4,9 103:5	essentially 13:3 42:9	evidenced 264:1	279:7
103:7 104:2	60:15 91:6 106:6	exact 28:7 160:14	executive 13:22
114:21 124:14	108:1 114:14	209:9	189:4
128:19,20 129:17	133:22 171:11,18	exactly 24:3 33:15	exemplar 52:4
133:1 144:16	174:12 175:2	91:9 179:20	exemplars 257:17
145:7 164:25	182:19 184:8	196:24 235:23	exhibit 27:12,13
169:4 197:17,21	189:17 192:2	263:2 273:21	186:13,15 188:17
214:11,15,16,23	242:2	280:10,14 281:11	207:16,18 208:6,7
219:14 222:14	establish 56:3	Examen 193:25	208:10,11 209:20
229:5 231:10	established 146:20	examination 3:11	209:22,23 211:8,9
234:19 248:17,25	154:8 221:1	62:11 218:3 228:6	211:9 252:3,5
256:8 257:3,6,23	estimates 11:9	306:2 308:7	262:19,21 267:16
261:22 275:16	197:5	examine 47:10	270:11,18 271:19

271:20,22 272:23	68:11,22 70:4,9	194:1 195:2,23	explode 155:14
276:19,21,21	71:13,20 72:6,19	196:13 197:22	exploration 11:16
279:18 281:19,21	74:11 75:8,17 76:3	198:9,20 199:14	20:21 260:3
306:11,13,14,16	77:15 78:10,15	200:4 201:2,12	exploratory 214:12
306:18,19,22	79:5 80:2,13 81:20	202:16,20 203:23	exposed 80:22 81:4
307:4,7,10,13,15	82:18 83:2,9 84:4	204:17 205:14	112:1 124:1,22,25
307:17	84:19 85:6,22 86:6	206:7 217:9 218:7	126:1 203:18,18
exhibits 217:24	86:18,25 88:11,25	219:2 222:5 225:8	203:22 204:2,2,7,7
306:7	90:18 91:1,13	226:5 228:10	204:22 205:13
exist 11:18	93:19 94:4,15 95:6	229:11,22 230:3	260:18
expect 46:7 114:11	95:21 96:9,17	231:12 234:10	exposure 124:6
114:21 118:25	97:13 99:3,21	237:17 239:19	197:8 205:21
204:6	100:19 101:2,20	240:20 241:9	299:9,10
expectation 46:2	102:5,15 103:10	242:8 243:17	expressed 138:11
77:11	104:15 107:5,23	244:4 249:8 250:5	extend 158:25
expectations 91:17	108:24 109:16	250:14 251:2	301:21
expected 134:18,19	110:16 111:2,17	260:25 262:9	extended 199:6
153:17	112:8 114:25	264:17 268:25	extending 81:13
experience 17:7	115:13 117:9	269:21 270:3	extensive 248:18
45:15,24,25 51:13	118:2 119:24	272:19 274:12	249:1,14 301:14
69:11 71:17 74:22	120:17 122:25	276:16 277:21	extent 18:17,18 24:1
76:7 77:11 81:16	123:3 124:10,19	290:3 293:10	39:13 53:7 68:10
94:11 98:23	125:9,16 126:7,18	296:1 298:7,25	75:7 99:20 111:1
120:12 123:10	131:13,22 132:21	299:6,18 300:18	118:1 124:18
134:4 144:17	134:8 135:2,16	expertise 17:8,12,13	125:15 132:20
223:17 225:4	137:20 138:3,23	17:24 18:1,23	135:15 166:12
231:9 262:3	140:7 141:3,18	experts 128:18,19	169:13 172:16
expert 11:4,4,5	142:13 143:13,25	147:20,21,25	175:19 177:23
14:12 18:19,19,20	144:20 145:15	156:5,9 162:19,20	181:8 183:10
18:21 19:2,18,20	146:2,17 147:5	163:16,18,24	191:14 200:3
20:7 21:23 22:1,2	148:1,19 149:17 150:14 151:3	164:11,12 165:12	260:9 265:7
22:3,7,11 23:23	150:14 151:5	166:16,18 167:8	extra 186:17
25:6 30:16 31:4,17		168:2,21,23 194:2 194:4 195:15	extract 11:24 150:1
32:7 33:2,21 34:18 35:9,20 36:21	154:10,21 157:2 159:13 161:10	270:7 282:15	extracts 149:22 eyeball 39:20
38:16 40:5 41:8,25	163:5 164:4 165:9	expired 301:4	179:22
42:17,24 43:15	166:13,19 167:4	expires 305:25	eyeballing 158:1
44:2,17,24 45:4	168:7,14 169:5,14	308:20	eyes 19:13 80:9
46:5,24 48:4,20	170:1 171:7	explain 99:23 103:9	218:10
50:9 53:8 54:21	170:17171.7	153:6 154:17	e-mail 209:24
55:15 56:6,16 57:3	175:20 177:23	166:10 171:6	306:16
57:9 58:5 59:10,22	178:13 181:9,23	177:19 182:8	E-1 211:6
60:5 61:2,12 62:17	182:10 183:11	200:1 247:24	E-1 211.0 E-2 213:1
63:21,22 64:14	184:2,16 189:22	explaining 190:4	
65:3,18 67:22	190:9 191:15	explanation 148:17	F
,		*	

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

	_	_	
F 305:1	falls 69:18,21	32:20 34:7,14 35:2	fine 3:16 89:19
face 290:19,20	179:21	35:5,24 39:11 40:9	286:16
291:2,2 292:18,18	familiar 9:19,23	41:15 42:5,6 47:7	finish 259:22
face-to-face 290:15	10:2 18:8,10 29:7	47:8,20,21 48:7	finished 55:7,21
291:5	29:12 39:18 99:24	58:11 61:7 65:20	182:17 272:2
facilities 211:18	99:25 233:22	99:17 111:5 126:2	273:4
213:2,22 214:2,5,6	familiarity 223:13	127:4 133:24	fire 40:23 125:18,20
214:7 215:1	families 198:18	144:4,18 155:6	firm 74:4
219:24 228:1	199:8,10,11,23	171:10 172:20	first 3:9 6:5 7:10
236:25 238:22	201:10,18,20	190:6,18,20	19:13 29:20,21
facility 9:9,11 62:8	202:4,7,14	208:21 219:19	30:4 32:2 41:13
72:11 106:7,8	family 116:5,18	228:23 233:12	49:3,10,10 56:21
213:4,5,21	198:18 199:2,5,5,6	234:2 241:11	57:13 64:22 71:25
facsimile 234:24	199:6 200:1,10,11	243:7 263:19	72:2 93:10,13
fact 17:20 19:4 20:6	200:13,14,21	264:7 266:11	103:12 104:17
22:15 32:15 45:21	201:16,18 202:1,9	300:25	129:14 137:15
84:11 97:9 110:4	far 68:8 156:18	fields 37:6 41:11	156:25 157:4,20
114:16 116:8	196:1,4 200:20	190:16,17 219:15	157:21 171:22
131:1 177:13	214:8 269:4,7,8	264:6 266:3	176:4 189:3 210:1
273:23 293:5	288:23	fifth 279:12	210:22 213:1
303:17	farther 149:9	figure 39:10 77:8	215:9 219:13
factors 61:24	157:10 168:22	78:17 89:17,20	222:19 223:4
facts 20:24 21:24	201:10 202:5	92:16 103:4	236:4 243:5 245:7
87:14 159:24	241:14	113:10 116:22	259:22 265:6
160:19 163:6	farthest 144:5,13	figures 281:8	267:8,12 273:12
195:3 219:2 228:9	190:16	figuring 154:15	274:22 276:7
243:16 251:23	fast 99:11 119:2	filed 21:17 22:16,20	277:14 278:17
256:11 265:11	faster 99:12	22:21,23 254:10	284:10 285:18
270:2 287:9	fauna 220:22 224:23	254:19,23 255:1	287:11,13
289:12	225:6,18	259:10 260:23	firsthand 123:11
factual 301:24	Fax 2:5,12,19	files 255:5	Fisco-Misional
fact-to-face 291:8 failure 215:14	FDA 36:5 feature 89:16	filing 253:22 fill 68:2	130:12
fair 11:8 12:15 14:9	features 69:23 91:15	fills 83:18	fish 11:21 12:12,13 15:14 16:1 17:3
21:6 29:15 63:1	federal 1:17 11:2	filming 287:23	96:22 97:16,17
87:18 95:14	12:11 14:7 18:9	288:2,4 294:3	103:25 104:7
121:21 154:14	301:22	financial 13:12 23:8	Fitt 2:3
179:23 188:17	fee 303:18,19	find 138:2 141:15	five 48:24 49:2
190:2 240:23	feed 212:18	142:2 170:24	180:11 230:18
254:2 256:2	feel 27:3 39:20	205:3 222:21,22	fix 7:24
264:10 271:18	145:11	203:3 222:21,22	fixtures 155:2
fairly 12:5 115:16	feet 105:13 124:2,7	finding 174:20	flame 40:18
116:6 140:15	156:16	269:24	flare 40:22 41:18
243:2 258:4	fell 161:1	findings 235:24	flares 40:25
fallen 293:17 294:13	field 11:20,23 26:7	236:3	flaring 41:6,10,16
	, ,		5 , ,

	1	1	
floating 50:24 51:24	form 62:13 81:17,23	169:25 171:8	fraction 151:14
floor 227:9	95:16 125:24	174:24 178:14	fractions 151:11,17
flora 220:22 224:23	168:4,10,13 169:1	179:8 181:24	153:12,13
225:6,18	202:11 205:10	184:3,18 185:8	Frankly 302:11,14
Florida 17:4	225:4,25 229:7	189:23 191:16,21	free 6:13
flow 63:12,13	234:5 241:2	198:10,21 199:14	fresh 55:23
216:11 232:5	300:22 308:12	201:3,13 203:7,24	freshly 55:2
243:11	Formacion 107:19	204:18 205:15	freshwater 97:1,4
flowing 42:11 99:11	format 277:3,4,4,5	215:7,19 216:8	104:19
99:12 106:4	280:8,9	217:3,10 218:7	Friday 1:20
216:14,14	formation 42:4 90:5	220:12 221:6	front 27:20 253:4
flows 38:19 69:20	90:16,21,22,24	225:9 226:5	Fugro 212:15
70:7 77:24 231:6	107:20 110:14	227:13 228:8	Fugro-McClelland
292:3	265:7,10	229:1,12 231:13	108:4,9 129:15
fluids 238:8	formats 263:10	232:12 234:12	208:20 209:12
focus 4:24 5:24 6:8	formatting 262:25	236:22 237:17	210:3,8,11,23
6:21 8:4 10:25	263:3,5	238:14 239:19	full 3:17 260:9
16:10 79:22	formed 11:19 12:24	240:7,20 242:9	fully 301:9
110:23 122:8,10	13:2 79:24 82:2	243:18 244:5,14	function 204:1
122:12,16 131:15	168:11,16 296:16	244:19 245:13	funded 87:7
166:1 199:19	297:18	246:14 247:7,16	further 191:11,13
234:21 257:12	forming 234:13	248:11 249:8	191:18,22 192:1
focused 5:2 6:14	forms 276:2	250:6,14 251:2	192:15,16,17,21
14:17 93:25	formulation 60:15	258:20 259:12	192:22 193:2
120:25 146:24	forth 308:11	261:25 262:10	304:16 305:4
185:11	forward 304:6	264:4,16 265:12	308:9,14
focuses 5:1,19 8:22	found 24:14 60:10	266:7,16 269:22	G
focusing 6:22	60:13 84:11 134:6	270:1 272:12	$\frac{\mathbf{G}}{\mathbf{G} 3:2}$
117:12	157:25 204:21	274:13 277:11,22	·
foliage 295:24,25	230:1 241:22	278:24 279:15	gallons 94:7,13 95:18 98:14
follow 70:16	243:15 245:9,19	281:17 284:15	Garland 2:10
followed 246:16	269:19 278:6	286:8 290:4 293:9	gas 40:11,15,18,21
follows 3:10	298:20 299:15	294:1 295:3	40:23 41:1,6,10,13
font 263:7	300:1 foundation 50:8	296:14 297:5,21	90:9 100:9,12
footnote 136:12,21 193:1 263:9	51:5,16 54:14	298:9 299:2,20 300:19	110:13
273:11	55:10 56:1,3 58:6	foundations 14:10	gears 252:1 286:10
footnotes 136:5	58:18 68:22 72:20	founders 13:10,14	general 35:14 47:5
193:9 279:9	73:20 75:1 76:10	four 68:17 105:9	53:25 62:15 99:24
force 91:6	76:21 77:16 78:16	127:15 163:18,19	121:13 122:10
foregoing 305:3	79:5 80:14 81:8	180:15 200:22	148:22 168:21
308:12	86:7,19 93:20 98:1	234:23 253:15	216:21 241:21
foreground 92:2,3	99:4 112:9,21	288:24	260:21 262:7,14
295:9	122:25 123:3	fourth 278:14	263:25 265:6
forests 5:3	148:2 159:25	Fox 9:3 15:17	281:7,12 291:14

	•	1	
292:23	197:3 198:16	granted 32:16	82:3 83:15 84:14
generalization	201:20 202:25	graph 35:22 36:2,11	133:2 136:15
146:8	212:25 216:20	107:18 109:13	166:8,15,20 167:7
generally 54:11	217:18 222:16	142:12 143:9,15	167:25 168:22
84:25 87:11 99:18	223:9 226:12,24	143:22 145:23	229:24 230:6
139:1,3 249:24	227:4,15 233:23	146:12,18,22	260:12 298:16
250:2 252:12	234:22 238:2,6	156:25 157:4,7,20	group 6:12 34:12
generated 135:4	241:14,18 245:25	158:4,14 159:15	48:13,19,22 49:1
170:25	247:20 249:18	161:7,14 162:4	112:23 118:9
geotech's 253:16	251:4 264:24	163:11,12,13	141:12
Gerardo 2:15	265:2 283:21	178:25 179:4,10	grouped 37:5 38:5,5
getting 70:19 74:3	289:17	181:1,10 199:22	201:14
78:8 83:15 120:25	goes 40:18 41:22	200:18 203:9,20	grouping 38:2
124:1 127:6	43:13 75:21	203:25 280:23	136:20
154:15 190:25	134:25 157:13,22	283:11,14	groupings 38:9
Gibson 2:2 302:21	going 39:12 52:21	graphs 117:1 154:18	groups 37:6 174:3
give 3:17 22:6 49:12	80:8 84:2 93:3	156:11,24 158:8	grow 3:20
167:18 223:23	113:22 124:2	162:5,22 181:4	growth 63:10
276:5	125:23,24 127:10	280:7	Guadalupe 11:20
given 6:13 150:24	128:23 129:2	great 29:5	Guanta 148:12
global 156:4	154:24 157:8	greater 143:17	Guaranteed 307:8
glorified 4:9	159:18 171:20	146:14,15 147:2	guess 13:15 31:11
go 3:22,24 25:8	172:4 180:15,18	153:10 166:23	37:23 72:2 79:21
29:20 30:4,11,12	180:20 196:6	174:8 184:6 185:6	91:4 103:3 119:21
46:17 48:10 52:9	198:3 225:24	188:13 195:6,9	123:21 127:6
54:17 63:3 64:9	275:15 279:7	greatly 117:18	133:12 197:2
66:23 68:18 71:9	287:2 288:9	green 2:17 9:3 15:18	224:18 254:13
73:5 74:5,13 76:24	301:13,15 302:4	20:1 27:16 37:18	guidance 9:23,25
82:4 84:6 87:3	good 3:13,14 51:11	156:1,3 157:5	84:1 87:24 88:1,1
89:8,17 92:15	51:12 89:18,18	158:10,16,18	88:2,2,6,14,19
93:24 97:22,23	94:14 276:5	159:11 161:13	146:11
99:16 100:14	goose 76:17 80:7	186:17,21,24	guide 87:5 93:15
106:23 107:16	gooseneck 75:9 77:3	302:3 303:1,6,17	guideline 152:20
110:19 113:16	gotten 116:8 303:24	304:16	guidelines 87:20
117:20 122:18,21	government 11:2,6	Greenwich 2:18	Gulf 17:2
123:22 125:13	12:10 14:8,10,19	ground 64:19	gully 296:16,17
127:5 129:5 131:9	14:23 32:13,16	107:15 113:19,21	297:17
132:17 135:11	34:2,13 87:16	115:6,7 118:11	gun 65:12 96:16
137:7 139:11	governments 11:3	120:3 293:19	Н
142:10 154:12	14:11	groundwater 9:2	H 2:17 253:7
156:23 158:4,13	government-run 34:1	24:25 26:16,24	habitat 141:8
162:3 166:5,6		64:21 65:9 78:8,19 78:22 25 70:3 12	habitation 80:12
170:22 173:15,15 183:5 189:8 190:2	GPS 156:4,8	78:22,25 79:3,12 79:16,19,25 80:10	Hagler 10:13
185:5 189:8 190:2	graduated 4:2 Grand 3:21 4:1	80:16,17,18 81:1,2	half 79:22 157:23
190.11 191.19	Granu 5.21 4:1	00.10,17,18 81:1,2	innii 17.22 131.23
	1	1	1

	1		
161:18 162:1	hazard 45:2 126:5	132:22 146:12,21	144:17 255:9
hand 27:11 151:15	126:10 169:4	190:11 193:5	hits 297:17
186:14 207:17	hazardous 8:19 9:20	227:10 273:22	Hold 20:1 28:2
208:7 209:21	10:23 11:11 14:5	280:22,23	holding 252:6,9
252:4 262:20	16:22 44:15,22	helped 23:25	home 186:25
267:17 270:10,19	45:14 48:7	helpful 212:2	honors 4:13,14
271:21 272:24	hazards 124:15	helps 88:17 89:12	hope 84:9 271:14
276:20 279:19	HBT 129:14 207:21	135:12	282:18
281:20 296:22,23	208:3 209:17	high 3:22 96:22,24	hopefully 91:4
302:24,25	210:4,6 212:14	96:25 101:18,24	horizontal 159:10
handed 34:6	219:13 220:13	102:1,12,25 103:5	hot 76:15
handful 28:9	224:10,19 230:25	103:8,13,24	hour 291:9
handle 35:3,8	231:1 235:5,8	104:12 142:25	hours 180:15 206:20
173:12 231:11	306:14	144:5 158:24	301:21 302:11
handled 40:21 107:2	head 28:25	182:23 219:6,7	housed 219:25
216:25 228:12	headaches 112:1	221:17,17 247:22	Houston 2:11
231:22 247:4	headed 35:17 87:4	248:6,8,17 249:25	Hugo 2:15
handling 61:18,19	127:25	250:3 260:5,18	human 5:23 47:2
88:2 89:11	heading 277:24	270:9 276:11	80:12 104:21,24
handwriting 188:18	278:5,14 279:12	higher 105:1 117:15	110:3 117:8 124:6
188:19,20,22,22	health 88:3 104:21	117:15 140:17	126:6 217:23
188:23 189:5,9	104:24 110:3,4	145:1 146:6 148:6	218:16 282:18
hanging 76:14	217:23 218:16	157:11 164:13	299:6
happen 100:17	299:6	200:14 204:10,22	humans 17:11 48:2
121:14 122:10	health-based 115:24	205:3,5,22	48:8 104:20
171:14,20 172:5	hear 73:24 177:5	highest 4:13,14	111:13,16,22
238:22 293:4	186:1	142:17,21 143:19	115:19 116:21
happened 97:7	heard 32:1 97:20	144:3,6,13 193:17	124:8,17 125:6
118:19 170:12	117:13,14 176:7	highlight 145:18	298:23 299:10
183:18 197:9	hearsay 44:13 45:23	211:25 236:2	hundred 144:9
238:25 293:3	64:2 97:14 211:20	highlighted 30:22	175:5 212:6
happening 100:6	289:6 297:1	126:25 235:6	Hurtig 203:10
114:14 158:23	heart 111:20	251:17	hydrocarbon 104:23 116:20
178:6 238:21 291:18 294:16	heavier 150:3,7,22	highlighting 195:6 197:5	
	151:1,13 152:5	hill 296:15,18	211:17 217:19 218:4
295:5 296:6,20 hard 45:13 105:11	153:2,16	hillside 71:10	
158:23 235:4	heavily 9:9 heavy 150:13	hired 10:21 11:3	hydrocarbons 9:6 16:17 101:19,24
239:2 261:1	152:21 233:5	21:22 22:1,10	102:2,13 103:1,6,8
293:15	help 11:5 14:12	108:10 129:12	102.2,13 103.1,0,8 103:14,24 104:13
harder 267:11	29:17 59:14 60:16	251:22	103.14,24 104.13
harm 95:4,9 298:21	60:16,20,20 63:11	historical 23:21	137:11 139:14
298:21 299:4	63:12,15 89:5 91:5	128:13,14 129:9	145:9 216:21
harmful 299:11	91:6 99:22 120:22	history 6:2 7:9 19:3	260:6 276:10
Harvard 112:24	124:20,20 125:1	30:12 84:6,7	hypothetical 145:14
	121.20,20 123.1	50.12 0 1.0,7	

161:3 165:8 195:4	179:14	279:9 300:4	156:17 157:1
222:18 223:12	important 63:8	inconsistent 86:9,13	192:13 297:25
240:19 300:5	103:17 104:4,8	261:5 269:25	indication 145:18
	123:12 145:11	incorrect 50:16,17	167:18 179:12
<u> </u>	impossible 275:10	152:21 255:13	indicative 134:16
idea 155:22 259:7	impoundment	259:3	140:18
identified 18:20	227:25	increase 153:19,23	indicator 134:21
19:1 141:17 142:4	imprimatur 261:18	205:12	indifferent 290:10
185:19 186:5	improper 25:5 70:3	increased 202:13	indigenous 20:18
191:8 201:15	75:8 78:9 159:6	increases 204:5,6	21:16
204:7,24 211:16	161:3 179:8,15	independent 242:15	Indirectly 8:4
217:19 234:1	229:21 264:17	242:19 278:15,17	individual 10:3
251:15 277:2	290:2,3	278:22 287:14	35:12 39:4 40:9
282:2	improve 214:8	independently	133:5,7 138:13,14
identifier 208:17	improvements	224:9 261:11	139:6,8 142:21
identifiers 36:19	172:12,14,22	INDEX 306:7	151:9,10 181:5
identify 21:10 27:22	inaccurate 264:23	Indiana 8:23	249:22 260:6
39:14 92:10,13	265:21	indicate 59:7 71:23	individuals 70:23
186:15 207:18	inappropriate 275:1	83:25 84:2 85:3	97:8 165:4
208:8 209:22	275:9	101:5 102:12	induce 111:20
252:13 262:21	incentives 95:10	109:12 112:6	industry 25:25 26:7
271:23 273:1	inches 68:17	120:6 136:6,23	41:5 82:10 84:1,15
276:22 277:13	incidence 203:21	143:9 157:24	84:23 86:4,9,13,23
279:20,23	incidences 200:9	160:9,25 167:10	87:8,9,12,21,25
identifying 128:1	incidentally 214:24	171:3 172:12	88:17 91:17 93:17
193:23 244:24	241:20 251:11	174:1 179:3	94:14 107:4 125:8
246:16	include 136:13	181:16 184:12	126:17 240:16
Illinois 8:23	258:13 267:1	192:10,25 203:20	264:6 300:15
illustration 100:2,5 100:6	303:12	218:23 220:6	301:1
imagine 165:11	included 5:8 8:25	256:6 272:2	industry's 88:14
immediate 199:5	23:21 53:5 133:1	275:14 284:9	ineffective 176:21
immediately 216:20	219:17 227:6	indicated 12:23	176:25 177:14
immobilize 120:23	229:3	58:25 66:17 67:7	276:25 277:1,25
impact 5:17 16:11	includes 136:15,16	93:16 121:22	information 23:17
16:13 39:21 83:21	136:21	150:19 154:5 167:20 170:9	33:4,10 35:18 36:1 36:4 49:14 78:13
214:11,16,24	including 21:16		
214.11,10,24 215:2,4 247:23	45:25 69:11 121:15 123:8	indicates 34:9 100:16 101:15	101:10 118:16 154:25 199:1
248:7,8,17	121:13 123:8	105:1 106:24	200:25 201:6
impacts 7:22,25 8:5	151:1 298:22	112:14 136:13	200:23 201:6
10:1 11:6 14:4,6	inclusion 51:7	148:13 194:9	222.19 223.20 224:6,8,9 227:1
16:7,22 17:2,8	incomplete 145:14	196:22 197:15	234:16 239:7
21:19 24:7 97:20	165:7 195:4	237:8,20	258:13,23,25
215:4	222:18 223:12	indicating 117:24	259:2 268:8 269:9
implemented	240:18 252:22	118:3 153:18	289:10,10 306:23
_			

	1		
307:5	interdisciplinary	irresponsible	jungle 231:7 238:10
Informe 282:7	5:1	231:24	238:17,20
307:18	interest 287:8	isolate 6:24	junior 10:21
inhabitants 77:12	interested 14:11	issue 6:22 125:12	jurisdiction 34:14
initial 55:3,5,8,13	138:17 287:1	148:22 152:14	Justice 17:5
55:14 58:16 171:5	308:16	169:16 181:3	Justicia 253:8
171:20 172:5,8	interesting 84:6	199:10 205:8	
306:9 307:2	Interior 12:15	issues 5:2 14:13,20	<u> </u>
initially 172:2	intermediate 133:15	14:24 176:5,10,12	Kalamazoo 9:3
178:15	international 11:3	176:13,15,20	KAPLAN 2:9
initiated 173:3	14:8,11 129:19	212:8	keep 63:10 65:5,10
input 263:1	285:10	issuing 301:17	83:14,14 120:22
Inspecccion 307:17	interpose 18:16	item 63:3	240:11 252:6
Inspeccion 283:2	interpret 284:4	items 30:1	keeps 89:13
inspection 128:18	interpreting 247:25	IV 2:10	Kelly 1:22 308:4,22
132:7,13 182:18	interrupt 37:15		kept 13:4,5
182:22 195:16,23	212:18 230:11	J	key 82:24,25 83:4
195:25 283:3	253:12	James 307:4	89:16 91:15
inspections 131:21	interrupted 37:25	Javier 2:14	146:18 236:3
131:23 132:2,11	intersects 159:11	Jen 266:21 267:3	kg 139:24
132:15,19,24,25	Intervenors 1:15	job 7:10 290:11	kill 97:1,3 103:25
133:8 134:2 135:2	interview 290:15,18	Jocknick 112:23	kills 97:16
137:2 151:19	291:5,8 292:16	131:2	kilogram 137:16,24
166:17,18 181:11	introduce 5:16	John 3:19 282:8,12	139:25 140:1,6,10
183:1,2 194:3,5	introduces 33:25	282:13,17 284:9	140:15,22,24
282:16	introducing 125:21	307:18	141:5,24 142:7,9
instance 223:23	introduction 128:7	join 106:15	143:8,18 144:24
262:5	256:6,14,14	joined 10:13	145:3 152:19
instances 121:9	invalidity 134:16	joins 38:19 106:12	153:11 159:17
201:16,25 216:2	investigate 7:20	judge 128:23 196:8	162:2,24,25 163:1
221:7 232:14	9:24 66:11 82:9	judgment 31:10	174:9,10 175:7
Institute 87:5,6,23	investigating 268:16	judicial 128:17	178:23 184:7,7
88:6 93:16	investigation 65:16	131:20,23 132:2,7	278:12 283:16,18
institutions 87:16	97:7	132:11,13,19,24	286:6
Instituto 130:3	investigations 207:1	132:25 133:8	kilometers 200:24
insult 16:4	207:12 257:3	134:1 135:2 137:1	200:24 201:21
intake 14:6	involve 9:12 16:3,7	151:19 166:17,18	202:8
intend 19:4	62:5,7 121:24	181:11 182:18,22	kind 12:18 13:5
intended 48:22	involved 8:1 252:16	183:1,2 194:3,4	16:4 37:20 45:16
72:12,17,21	252:18 258:9	195:16,22,25	52:4 60:9 69:2
120:10 128:6	262:24	282:15 283:2,3	81:18 145:16
164:15 257:5	involvement 30:8	307:18	201:1 239:2 261:1
intent 124:20 183:8	involves 196:6	jump 48:15,15	293:17
183:9,13	irrelevant 180:19	jumped 65:11	kinds 12:7,8 14:5
intentional 95:12	288:10 298:18	jumping 96:16	56:23 60:12 74:15
	I		I

172:22 173:21	knowledge 18:18,24	205:15 215:6,18	85:12 135:9 227:5
200:8 201:5	22:7,17 36:10	216:8 217:3,10	239:3
291:11	42:25 44:3 50:9	218:7 220:12	larger 106:13
knew 152:1 160:6	56:4 132:4 144:17	221:6 225:9 226:5	162:20 290:21
178:2,7 198:11	195:24 238:15	227:13 228:8	lasted 291:8
210:18 213:10	271:7 301:24	229:1,12 231:13	late 129:23
224:16 259:16	known 104:18	232:12 234:12	Latin 4:9
291:10	165:17,18 220:8	237:17 238:14	laude 4:11
know 13:13 19:1	Kodak 6:6,10,18	239:19 240:7,20	laundry 76:13 227:7
20:14 21:25 22:2,4	KRAUSE 2:16	242:8 243:18	228:24 229:9,16
22:5,19,22 28:6,20		244:5,14,19	law 10:7 143:6,12
28:23 31:19,21,24	L	245:13 246:14	154:8 214:15
33:15 35:11 45:14	L 198:22 199:16	247:7,16 248:11	217:21 218:5
50:21 53:18 62:23	200:6 201:5,6	249:8 250:5,14	221:1 234:4,9
66:15 68:12 87:22	253:15	251:2 258:20	laws 9:23 10:8
91:3 95:9 99:5,10	la 36:5	259:12 261:25	234:19
99:13,14 106:1,1	lab 6:17,20 133:25	262:10 264:4,16	lawsuit 20:15
111:16 114:15	275:8,23 307:7	265:12 266:7,16	lawyer 19:16
115:20,25 117:4	labeled 74:16 78:5	269:22 270:1	lawyers 222:1
119:6 121:17	90:1 92:18 142:1	272:12 274:13	layer 74:19
124:12 126:9,9,13	154:19 195:13	277:21 278:24	layout 53:10 54:15
126:14 130:14	285:25	279:14 281:17	155:22
139:9 151:19,23	laboratories 136:3	284:15 286:8	leach 275:3
176:10 178:9	laboratory 135:24	290:3 293:9 294:1	leachate 136:21
181:3 182:17	275:4 276:4	295:3 296:14	leaching 78:7
187:23 188:5,19	labs 6:10	297:5 298:8 299:1	178:18 273:24
190:23 193:3	lack 121:12 122:8	299:2,20 300:19	leading 128:4
196:1,4 207:3	122:17,24 123:2 132:3 256:7	Lago 20:13,14 21:6	130:19 134:9
208:12,17 209:14		27:3 31:15,16,20	138:22 139:16
209:18 212:13	Lacking 297:20 lacks 50:8 51:5,16	31:21 32:5 37:23	141:2 146:3 152:7
214:9 217:11	54:14 55:10 56:1	38:25 65:17 88:5	160:12 164:3
218:12 219:7	58:6,17 68:21	148:12 187:5,14	168:8 176:22
223:18 226:21	72:20 73:20 74:25	209:4 226:14	184:17 189:24
229:16 233:10,17	76:10,20 77:15	255:9 laid 19:13 53:25	196:23 199:13
233:19,20,21 236:23 237:7	78:16 79:5 80:14	LAK 1:3	202:15,20 206:24 209:5 211:1
230:23 237:7	81:8 86:7,19 93:20	lake 15:23 31:23,24	212:12 225:22
242:15 251:4,6,8	98:1 99:4 112:9,21	32:1,5	226:4 229:12
253:18 254:25	148:2 159:25	land 2:10 4:20,25	235:16 240:20
258:5 259:2,4	169:25 171:8	224:25 225:21	243:18 244:5
264:22,24 269:5,7	174:24 181:23	226:3,10,18	247:15 249:9
269:8 270:6 272:9	184:3,17 185:8	250:10,17	256:10 260:25
273:16,19 282:12	189:23 191:15,20	lands 20:22	262:11 263:14
282:13,21,23	198:9,21 199:14	Language 213:17	278:3,10 279:15
302:5	201:3,13 203:7,24	large 12:6,21 15:22	280:19 292:17

298:8 299:1	100:14 106:23	103:15 117:8	275:7,12 276:9
leaking 119:1	107:16 110:19	126:6 197:15,25	literal 47:14
learn 43:25 44:5	117:20 122:18,21	198:13,14 298:22	literature 196:22
119:12 213:25	125:13 127:5	299:5	197:11 203:10
learned 46:13	129:5 131:9	light 150:2,5,21	lithium 233:4,18,20
213:14 216:25	132:17 135:11	151:11 153:12	233:22
217:5 228:5,12	137:7 139:11	limit 109:9,14	litigation 11:4 18:13
237:15,22 259:2	141:11 142:10	137:25 141:6	20:13,14 21:7,10
265:8,19 266:3,12	147:1 154:12	169:3 195:1	21:11,14,15 27:3
lease 240:3	156:23,23,25	284:12	31:16 65:17 88:5
leave 46:17 229:13	158:4,13 161:6	limited 219:18	187:6,14 209:4
leaves 293:16	162:3,4 166:6	255:15	little 8:8 12:3 22:24
294:13	173:15,15 175:13	limites 108:22	30:2 36:19 40:18
Leaving 205:7 259:7	182:4 183:5 185:3	line 32:24 40:17	41:21 51:18 71:4
led 23:18 84:12	190:2 198:16	41:22 43:13 92:22	71:10 73:2 89:4
left 6:4 10:12 12:24	202:25 205:24	109:7,13 143:5,7	96:15 100:9
53:12 56:24 72:12	210:21 212:25	157:6 159:10,11	108:21 120:23
92:2 155:2,12	216:19 217:17	159:15 161:14	131:7 136:5
157:9 159:23	226:12 227:4,20	162:10 214:18	158:23 161:16
175:9 177:8,11	229:13 233:23	288:10 305:7	162:2 163:14
190:16 193:24	234:22 236:4	liner 64:20 65:1	201:21 202:4
285:24 286:16	238:2 245:6,25	83:13	210:20 230:12
300:8,9	249:18 252:1	liners 64:13 65:15	254:17 283:14,24
left-hand 238:4	256:13 262:18	65:25 66:2,9,14,15	290:6 291:23
282:22	265:15 266:1	66:16,19 67:9	292:1,3,4,5,7
legal 109:17 175:20	290:5 291:17	lines 38:11,13 39:7	293:15 294:12
176:5,12 222:6,11	level 10:22 18:8,10	243:12 248:15	live 32:4 80:24
222:23 223:8,14	61:16 84:22 138:6	link 202:23	106:14 198:24
223:14 234:11	139:25 140:17	liquid 59:13	201:10,18 204:2
299:20	143:7 174:2	list 8:16,16 122:5,15	204:10 212:18
legend 41:23 89:3,3	179:18 222:4	130:1 206:18	lived 125:25 199:17
92:7 108:12	223:8	229:4 249:20,21	200:11,21 202:3,8
156:14 192:25	levels 101:18,24	249:23 251:11,12	203:17 223:25
legs 111:20	102:1,12,25 103:6	251:13	lives 200:1,13
length 212:6	103:8 104:12	listed 63:9 129:14	living 5:21 24:10
letter 188:21	142:2 164:14	131:3 185:18	199:11 203:16
letters 282:11	270:9 283:25	190:6 191:7	204:4,7,11 205:4,5
let's 18:11 29:20	299:11	193:21 280:15	260:17
30:4,11,12 32:19	liabilities 249:21,23	305:6	LLP 2:9,16
35:16 36:14 39:24	250:1 251:12	listing 129:7	lmurphy@skv.com
46:17 48:10 52:9	liability 176:2	lists 193:15	2:13
54:17 56:12 63:3	249:20 251:16	liter 108:13,19,23	local 10:8 21:17
64:9 72:15 73:1	life 44:22 96:7 97:10	109:2 112:12,12	76:8 226:19 236:6
82:4 87:3 93:24	101:14,15 102:3	113:6,8 166:24	236:15,18 located 69:5 164:18
97:22 99:16	102:14,20,24	167:9 178:19	10cated 09:5 104:18
			1

190:19 220:2,7,19	285:11,18 291:17	125:22 135:3,5	map 30:21,25 36:15
location 31:15 90:16	looked 23:24 24:23	154:24 163:9	36:17 37:1,3 38:22
157:5 161:13,15	28:10 54:7 66:2	291:9 302:14	39:14 255:20,20
164:1	96:11 99:13	lots 88:3	271:10
locations 39:3,19	115:20 116:22	Louisiana 2:10 17:4	maps 167:24
155:20 156:4,8	126:20 128:7	love 265:3	MARIA 1:11
163:19,19 165:5	130:21,24,25	low 144:4	mark 179:4
167:25 243:9	131:3 132:15	lower 89:3 140:16	marked 27:12,13,15
logarithmic 179:18	143:16 148:21,22	155:2	27:16 186:13,15
179:22 181:3	154:14 178:25	lowest 144:2	207:16 208:6
logic 190:5	197:5,10 203:13	lubricate 59:14	209:20,22 252:3,5
Loja 31:14	207:21 208:22	lubrication 60:16,20	262:19,21 267:16
long 24:10 294:21	218:19 234:17	M	267:18 270:10,18
longer 34:15 149:20	240:21 245:18,19		270:20 271:20,22
170:20 211:23	246:19 258:6	machines 282:19	272:23,25 276:19
264:23	271:16 280:7	Mackereth 1:22	276:21 279:18,20
long-term 248:19	289:11 291:10	308:4,22	281:19,21
249:2,11	looking 23:20 47:19	Madison 4:21	marks 39:14 254:22
look 10:1 27:20	47:20,21,22 49:23	Maest 188:24 210:7 210:10 212:8	Mason 2:17
35:16 36:14 39:24	51:14 66:11 85:18		master 52:14
48:15 51:11,12	88:8 111:7 114:3	273:6,8,14,19 307:10	master's 4:19 7:6,8
54:3,4,4,6,6 55:7	121:3 145:7	Maest's 188:23	7:10
55:13,21 56:5,12	146:11 149:12	273:22	match 33:15
72:15 73:1 80:6	157:8 181:1	main 92:15 227:25	material 60:24
98:13,18 99:2	182:17 235:3	maintain 63:16	128:24 129:3
125:11 130:16,20	239:6 251:13	maintained 41:16	150:3,13 211:10
134:14 141:11	255:17 263:2	301:24	272:7 284:14
147:1 149:8	266:18 293:18	maintaining 60:21	materials 280:5
156:25 161:6 170:22 175:5,13	295:12,17 looks 36:6,15 40:18	major 277:14,24	matrix 136:8 Matt 2:23
178:24 185:3	50:12 51:25 68:15	majority 121:23	matter 19:3,3 32:15
178.24 185.5	91:22 130:11	122:4 139:9,10	94:11 202:18
201:6,16,24	136:7 137:3	172:4 181:16,18	213:15 234:6
211:12,13 214:10	130:7 137:3	182:2 211:18	298:2
224:3 226:25	159:12 157:21	217:20	Maxima 285:16
229:23 230:9	161:16 166:6	making 224:14	maximum 36:7
233:2 236:4,17	188:23 202:6	manage 35:4	109:5 143:3 144:8
239:25 240:23	207:20 212:19,22	management 12:6	193:13,16,20,24
241:25 244:9	229:16 249:22	238:3,4 255:22	194:16,25 195:6
253:19 254:15	252:21 253:7	manager 15:17,25	195:13 285:9
255:19 254:15	252:21 255:17 255:17 255:15 284:17	23:4,6 261:15	286:4
265:15 266:1	294:4	managers 7:22 8:6	McGovern 270:25
268:14 273:11	lost 212:18	managing 188:25	307:5
279:11 281:22,24	lot 12:6,18 37:10,10	manner 27:5 62:14	McMillen 2:22
282:6,22 283:4	69:12 84:13	Manuel 130:4	mean 4:13 14:14

20:14,19 23:14	179:1 189:18	149:19,22,24,25	195:1,7,10 198:12
32:6 34:4,10,16	193:17 201:1	150:4,9,20 168:5	221:1,8,10 222:2
35:12 37:15 38:1	measurements	methods 149:14	222:10 284:11,17
41:24 42:14 43:14	108:20	mg's 139:24	284:20,22
47:14 55:17 57:7	measures 151:9	Michigan 3:21,21	mind 127:23 152:4
59:4 61:21,22 63:5	174:13 224:22	8:23 9:3 15:23	162:5 231:14
64:12 66:10 67:21	225:6,16 226:2,9	micrograms 112:11	mine 248:16 270:17
83:13,16 85:5,8	measuring 152:20	112:14 113:6,8	271:9
106:1 108:23	275:24	mid 129:23	Mines 279:3
120:3 122:9,11	mediation 211:17	middle 286:2	minimize 94:21
134:25 136:17	medium 45:16	middle-upper 38:25	Ministry 279:2
137:19 153:4	150:3,6 151:11	mid-level 10:22	Minnesota 8:24
162:8 185:7	153:12	mid-1990s 184:20	minutes 70:22,23
186:24 191:12	meet 107:12 287:16	migrated 243:22,23	286:12,16 287:1,7
193:17 206:5	287:22 288:3,8	244:1 248:20	287:8,18 289:17
211:7 212:17	meetings 288:14	249:3	290:8 291:8
236:10 240:5	Members 307:4	migrating 245:10,22	297:24
244:12,17 245:11	memo 234:23 246:1	migratory 5:3	mislaid 270:17
245:16 246:10	267:23 269:2,5	miles 32:4	misleading 266:11
251:5 253:12	270:22	milligram 140:10	mispronounced
263:6,11 270:13	memorandum	152:19 182:1	130:4
283:2	230:21 306:22	278:12	missed 182:19
means 23:5 31:22	307:4	milligrams 108:13	212:20
31:23 45:11 64:16	memory 178:4	108:18,18,23	missing 252:24
107:19 111:12	193:4	109:2 112:12	Misstates 20:24
115:16 153:9	men 91:24	137:16,24 139:25	21:24 24:15 66:20
158:10 170:19	mention 242:25	140:1,6,14,22,24	87:14 159:24
185:9 191:7 192:4	286:11	141:5,23 142:6,8	160:19 163:6
192:14,20 194:3	mentioned 15:20,21	143:8,18 144:24	195:3 212:11
236:13,13,14	26:24 110:2 151:7	145:3 153:11	219:1,2 221:5
240:8 245:18	172:22	159:16 162:2,23	228:9 243:16
248:6 255:1	mess 68:16	162:25 163:1	251:23 265:11
282:24 284:19	met 287:19 288:1,11	166:24 167:9	270:2 275:19
302:8	288:11,16	174:9,9 175:7	287:9
meant 34:21 72:3,7	metals 9:7,10,21	178:19,22 184:6,7	mistaken 73:4
109:8 128:13	11:15 133:5 233:5	275:7,12 276:9	Misuse 307:10
245:17 247:24	260:7	283:15,17 286:5	mitigative 248:18
measure 137:11	meter 157:23	million 143:8,24	249:1,14
150:7,22 151:17	158:21 161:17	144:9,10,11,14,14	mix 60:17 80:18
274:23 275:2	meters 156:16	144:19 145:10,24	120:2,2 181:12
measured 104:6	157:15,15 161:18	147:3 148:15	276:3
108:7 138:21	161:18 162:1	153:5,19 154:6	mixed 103:19 125:2
142:17,21 144:6	200:22,23,23	158:2 159:2	275:8
144:13 166:23	201:19	160:10,24 161:25	mixing 275:23
167:8,15 178:10	method 79:25	181:19 188:14	mixture 33:8 39:4
	l		

	I		I
171:11	172:10 173:14	N	nervous 290:16
mobile 85:9	174:18 175:12	N 2:4 3:2 306:1	neurologic 111:25
modifications	177:16 180:12	name 3:17 13:6	never 19:11 72:8,9
213:21	182:3,4,24 184:11	31:16 56:14	72:10,10 73:15
modified 303:12	184:23 192:8	190:18	77:8 121:18
moment 101:12	197:13 199:9	names 31:1 190:6	Nevertheless 260:11
205:8	200:16 202:10	190:16	new 1:2 4:4 6:23
money 223:1	206:1,16 215:6	naming 147:10	13:6 288:11
monitor 14:23	216:7,17 219:10	Napa 31:1	NOAA 17:1
118:22	225:22 226:11	Napo 31:1 207:2,13	non-exposed 203:22
monitoring 228:18	228:20 229:21	255:11,15 275:18	204:3,11
229:24 230:6	232:1 233:1,16	280:2 307:16	non-human 5:19
Montana 12:21	236:16 237:6	Narajo 2:15	non-retained 19:2
month 302:21	238:23 239:10,24	narrate 289:19	nope 117:22
months 288:25	240:14 241:17	national 8:15 12:13	north 112:17 113:3
morning 3:13,14	245:5,6,23 248:22	16:20 203:14	156:15
Moss-American 9:4	249:17 256:3	natural 11:8 12:16	northeast 31:12,13
motivations 95:10	257:9 259:17	224:23 225:7,18	northeastern 30:22
move 36:13 39:12	275:13 276:6	nature 15:1 46:2	northern 5:3
41:3,19 42:13,20	286:7 289:15	228:16 257:6,22	north-south 39:8
43:5 44:13,20,25	293:22 294:7	260:9	nose 296:24
45:22 46:9 47:9	297:20 298:18	near 76:17 78:21	Notary 1:24 305:25
48:9 49:8 50:1	299:12 300:11	236:25	308:6
51:4 52:2,8 53:15	301:2 304:6	nearby 9:9 227:24	note 67:18 127:4
55:9,25 56:11,25	moved 72:9 114:9	necessarily 38:8	219:13 244:1,20
57:23 58:17 60:8	151:8	79:8	244:22 246:15
60:22 62:10 63:2	movement 84:22	necessary 8:2 24:13	269:10
63:17 64:2,8,25	85:2	24:20 224:22	noted 126:22 243:24
65:8,12 68:6,21	movies 282:19	225:5,16 226:1,9	247:12
70:3 72:14,25 73:5	moving 178:1 202:5	274:2 302:12	notes 210:23
73:6,11 75:7 78:2	252:7	neck 76:17 80:7	notice 1:17 38:10
78:9,23 81:5 83:20	mud 74:15 75:5	need 8:18 52:15,17	303:2,22
83:24 88:21 90:11	muddy 59:13	72:2 73:9 82:6	noticed 41:15
91:20 92:25 95:13	muds 59:8,9,12,17	84:24 151:13	118:21
96:5 97:5 98:21	60:2,3,10,13,14,14	192:3 252:6	November 270:24
99:15 103:2	60:17 61:1,7,9,11	286:17	NRDA 11:10 12:21
104:10 105:3,18	62:12,14,20,25	needed 24:22,22	16:1 17:19
105:20 110:6	233:4,15	83:13 159:21	Nueva 31:14
111:12 112:4	multiple 89:10	needs 59:18 85:14	number 28:16,21
114:18 115:9	118:13 122:5	93:2 304:14	29:8,10 36:7 38:10
122:20 124:4	133:18 208:15	negative 192:16	49:17 93:7 115:24
126:3 145:21	260:12	Negligently 263:18	127:14 133:23,25
152:24 154:3	Murphy 2:10 207:7	306:20	134:11,15,20
155:25 159:6	208:12	nerve-racking	135:8,9,10,13,17
163:10 168:25		290:9,16	136:1,24,25 138:8
		,	l

140:4,25 143:10	53:7,15 54:1,14,21	150:14 151:3,21	243:16 244:4,13
143:23 153:1,18	55:15 56:6,16 57:9	152:7 153:7,21	244:18 245:12
154:20 160:15,17	58:2,5 59:10,22	154:9,21 157:2	246:13 247:3,6,15
165:4 166:20	60:5,11 61:2,12	159:13,24 160:12	248:10 249:7
177:9 179:5	62:17 63:21 64:14	160:19 161:2,10	250:4,13 251:1,23
190:18,19,21,22	65:3,18 66:6,20	161:22 162:15	256:10,22 257:14
190:18,19,21,22	67:10,22 68:10	163:5 164:3 165:7	257:18 258:1,15
199:2 214:15	69:15 70:9 71:13	166:12 167:4,12	258:19 259:11
224:4,7 268:18	71:20 72:1,5,19	167:22 168:7,14	260:1,24 261:24
270:12 300:7	73:20 74:11.25	169:5,13,25 170:6	261:24 262:9
numbered 190:22	75:13,16 76:3,10	170:17 171:7	263:14 264:3,15
numbering 190:22	76:20 77:14 78:15	172:16 174:4,23	265:11 266:6,15
190:24 191:2,4	78:23 79:4 80:2,13	175:19 177:22,22	268:17,25 269:6
numbers 28:19	81:8,20,25 82:18	178:13 179:7	269:21 270:1
33:14,15 67:13	83:2,9 84:4,19	180:21 181:8,20	272:19 274:3,12
108:15,17 132:16	85:6,22 86:6,18,25	181:22 182:10	275:19 276:16
133:17 140:12	87:13 88:11,25	183:10 184:2,16	277:20 278:9,24
146:13 184:10	90:18 91:1,13	185:8 187:10,15	279:8 280:19
200:17,20 241:20	93:19 94:4,15,19	189:12,22 190:8	281:4,16 284:2,13
241:23 283:21	95:6,21 96:9,17	190:14 191:14	287:4,9,24 289:6
numerous 232:3,5	97:13 98:1 99:3,20	195:2,11 196:2,13	290:2,24 291:20
232:13	100:18,19 101:2	196:23 197:13,22	290:2,21291:20
	101:20 102:5,15	198:8,20 199:13	294:1,6 295:2
0	103:10 104:15	200:3 201:2,12	296:1,13 297:1,5
O 3:2	106:17 107:3,5,23	202:15,19 203:7	298:7,25 299:18
object 18:22 180:18	108:24 109:16	203:23 204:17	300:18
180:21 198:8	110:16 111:1,17	205:14 206:6,21	objections 25:15,19
214:17 272:11	111:23 112:8,20	209:5 210:12	26:1,5,18,22 44:7
277:11 288:9	113:14 114:1,24	211:1,7,20 212:11	50:20 65:23 69:4
302:8 303:17,21	115:13 117:9	212:20 213:16	96:1 101:8 116:3
objected 302:13	118:1 119:4,18,23	214:17,19 215:18	116:13,17 120:20
objection 17:16 18:4	120:16 121:6	216:12,17 217:2,9	152:17 164:7
18:16 19:6,25	122:1,24 123:2,7	218:6 219:1	175:24 176:17,22
20:24 21:8,8,24	124:4,10,18 125:9	220:11 221:5	177:3 185:2
24:15 25:5,6 27:8	125:15 126:7,18	222:5,17 223:11	191:20 192:11
30:15 31:4,17 32:7	127:2 128:4	224:11 225:8,19	193:14,22 194:8
32:17 33:2,21	130:19 131:13	225:22 226:4,22	195:11,19 198:15
34:18,23 35:9,20	132:3,8,20 134:8	227:13 228:8	200:19 205:19
36:9,21 38:16,23	135:15 137:20	229:1,11 230:3	225:14 237:24
39:23 40:5 41:8,19	138:3,22 139:2,16	231:12,15 232:12	239:18 242:13,24
41:25 42:17,24	140:7 141:2,18	233:8 234:10	262:15 265:18,23
43:15 44:2,17,24	142:13 143:13,25	235:16 236:11,21	274:18 278:3,9,19
45:4 46:5,12,24	144:20 145:13	237:11,16 238:13	279:14 284:23
47:4 48:4,20 49:15	146:2,16 147:5	239:1 240:6,18	285:2,22 294:11
50:8 51:4,16 52:6	148:1,18 149:17	241:8 242:7	294:18 295:7
			l

298:13 300:4,23	occurs 42:3 171:4	103:16,18,19,20	269:15 270:9
303:24	257:7,23	104:1,3 108:7,18	274:10 275:10,10
objective 165:24,25	Oceanic 12:14 16:20	110:4,13 111:3,4,5	276:2,3,12 280:2
166:3 222:8	October 12:23	111:7,8,12 113:17	290:21 292:4,6,10
274:24	267:25	113:17,20,21,21	293:11,16,19
oblige 265:3	office 7:12,13 8:22	115:18 116:6,7,7	296:25 297:11,18
observation 63:19	36:5 47:19,21	118:5,18,19,20,22	298:23 299:15,25
122:22 216:10	officer 23:5,7	118:25,25 119:1,8	300:1,14,24
218:13 220:24	off-site 85:13	119:9,10,15 120:3	307:11,15
243:14 249:11	oh 27:16 46:17 73:7	120:5,7,10,13,13	Oilfield 306:20
250:22	97:23 202:6 236:9	120:14,21,22,23	oily 60:17 68:16
observations 97:16	253:12 279:25	120:23,25 121:4	245:8,8,20,21
180:24 215:16	294:6	121:13,15,15,18	246:8,10 275:18
216:2,5 247:18	Ohio 8:23	121:19,24 122:12	276:1 294:13,14
266:14	oil 9:12,14,16 10:24	122:15,23 123:6,9	oil-based 60:15
observe 43:7 63:23	11:15,15,20,23,23	123:23,25 124:1,7	oil-contaminated
76:8 240:2	11:24 16:18,22	124:16,22,25	121:10
observed 69:1	17:8,14 18:2,6,10	125:2,5,8,18,20,23	oil-exposed 204:10
215:13 218:9,9,18	20:21 26:6 32:20	126:2,13,15,16	204:14
243:10,15 247:13	33:6,18 34:1,7,12	127:4 135:21	oil-water-gas 33:8
249:4,12	34:14,17,22 35:1,5	137:11 138:5,15	39:3 171:11
observing 71:17	35:7,8,24 37:3,5	139:22 144:12,25	okay 5:20 6:1,2,3,11
obtain 5:5 33:9	37:10,11,12 38:2,3	145:3 146:1,23	6:16 7:3 8:9,12
obtained 4:7 7:5	38:6,7,7,9 39:11	149:23 150:7,10	12:2 13:10,20,23
36:1 134:1 224:8	40:10,16 41:11	150:22 151:1,16	14:1 18:11,25 20:5
224:10 252:25	42:3,4,5,6,8 43:17	152:21 153:2,16	20:11 21:13 22:24
255:5	43:22,25 44:6,8,10	155:3,23,23 166:7	22:25 28:15 29:9
obtaining 4:17	44:14 45:2,11,15	171:9 173:4 178:1	29:13,14,19,25
145:8	45:16,16 46:1,2,13	190:17 197:8	30:4 36:13,23
obvious 69:9	47:7,8 48:7 50:24	199:12 200:1,11	37:25 40:17 43:12
obviously 81:1	50:25 51:2,2,24	200:13 201:19	47:15 48:17 49:7
163:23 302:19	53:25 54:12,25	203:18,19 204:7	50:15 52:11,13,16
occasion 43:24 82:9	56:22,22 57:6,8,11	204:15 205:4,4,8	52:19 62:21 73:1
88:4 164:23	57:15,18,19,22,25	205:11,13 215:12	73:16,17 74:9
occasions 216:10	58:13,14,15 59:1,2	215:24 216:1,2,6	77:10 87:3 89:7
occur 81:18,19 82:1	61:7 63:12,16	216:11,14,15,25	91:11 93:24 94:23
100:10 111:3,4	70:17,17,18 71:4,7	218:13 219:15,17	97:22 102:8
288:16,21 304:4	71:9,11 73:18,18	219:19,19 220:2,3	107:16 110:12
occurred 45:3	74:20 75:4 76:17	228:23 233:12	112:16 117:5
118:25 119:9,10	77:23 80:6 82:10	234:2 240:4,10,13	121:20 122:18
151:19 174:22	87:8,9 88:1,14,15	241:11 243:7	127:5,9 128:21
215:14 244:11	88:16,24 89:22	249:12 255:9,10	129:2,11,18
290:18	90:3,17 91:7,17,18	255:16,21 260:3,7	130:15 131:6
occurring 63:10	97:18 99:17,24,24	260:8 263:18	133:10,16 134:3
302:1	100:1,7,9,11,12	264:5,7 266:2,11	134:18 135:11,25
	1 1		1

136:23 137:7	286:9 287:16,22	175:2 181:6,13	94:24 95:1,16,25
138:1 139:11	288:5,15,23	194:7,10,11,17	96:2 104:11
143:5 145:6	289:22 290:1,7	213:19 233:12	116:24 152:22
146:10 147:1	291:4 292:12	241:11 268:22	163:25 164:6
152:3,23 155:11	293:7 294:25	269:3 293:12,13	168:4,10,11,13,16
155:13,14 156:13	295:5 296:5,19	300:24	169:1 184:24
156:23 157:19	303:10 304:13	operating 61:10	202:11 204:13
158:4,13 159:5	old 79:13 103:19	63:24 82:21	205:10,18,20
160:8,16,23 161:6	older 98:17 155:12	114:23 115:7,8	212:2 225:4,13,15
162:6 163:8 165:2	204:5	155:21 171:13,17	225:25 226:7,8
168:13 169:10	once 72:11 160:5	173:7 229:8 230:7	229:7,14,18
176:19 177:15	170:19 171:10,13	operation 23:18	231:17,19,19,22
178:8 180:2,5	171:17 177:24	42:15 79:14	234:6 241:2,7,10
181:15 182:4,6	178:1,5 275:7	255:19 269:8	242:11,14,15,19
185:16,16 186:11	ones 54:16 66:2 92:3	operational 234:1	249:25 250:11,20
188:3,10,17 189:2	111:10 130:23	operations 21:20	250:24 251:7,9
189:6,7 191:19	156:20	25:22,24 26:9,14	274:8,15,17,19
193:10,19 194:6	one-third 238:7	27:1 32:20,24 34:3	277:18,21 278:1,8
194:14,20 195:24	ongoing 171:5	34:7 35:4 37:7	278:13 279:13
197:1 199:21	online 93:13	40:1,3 44:11 48:24	298:1,12,14
206:17 208:5,14	onshore 106:24	49:5 50:23 56:20	299:13,24 300:12
209:11,19 210:20	on-site 173:12 238:9	59:25 61:14 63:25	300:21
211:5 212:24	open 54:6 57:20	75:3 85:25 88:2	opinions 19:3,5,6
213:8,11 215:5	60:2 63:11 69:19	91:16 100:21	24:4 62:19 234:14
217:17 222:13	89:15 125:17	114:9,15,16 115:1	234:17 243:20
223:6,22 224:21	126:12,15 173:13	115:3 126:2 155:5	249:5 260:21,22
227:17,20 233:23	245:7 300:6	165:15 169:19	261:3,4,5,9,11 264:21
234:22 235:9,21 236:4 241:25	opened 35:17,23 36:7 37:4	170:25 172:19 173:3,11 204:25	
242:18,21 249:16	operate 32:13,16	205:1,2,4,8,11,22	opportunities 171:14
251:10 252:1,20	35:3 40:25 68:2	203.1,2,4,8,11,22 208:22 212:3	opportunity 303:13
253:2,19 254:2	88:15 91:18	214:8 215:1 234:2	opposed 172:24
255:4,6,12 256:16	operated 26:6 30:24	234:7,18 235:25	201:10 301:25
256:20 258:12	33:5,17 35:2,6,17	249:12 251:20	orange 37:23
259:5 261:13	35:24 36:7 37:2,4	256:1 260:3	orange-ish 37:24
262:2,13 263:5,12	40:8 53:14 56:9	289:13 291:12,15	ordered 144:2,3
265:1,15 266:1,10	64:7 82:11,16 83:5	298:14,24	organic 6:9,14,14
267:1,6,15 268:4	86:17,21 88:18	operator 34:16,22	9:1
268:10,14,22	91:19 105:11	172:15 224:21	organics 286:1
269:10,24 271:4,7	108:2 118:17	225:5,15 226:1	organisms 5:22 97:1
272:24 273:23	131:18,19 138:19	234:8 300:14	97:4,20 104:19
275:14 278:14	149:4 155:4	opinion 45:1 46:10	organization 87:7
281:2,20,23	169:24 170:4,8,23	62:13,22,24 78:24	organize 48:23
282:17 283:4,8,14	171:1,9 173:22,24	79:24 81:17,24,24	orient 220:7,10
284:6 285:6,11	173:25 174:14,15	82:2 94:12,18,20	oriente 220:10,14

220:18	306:2	88:22 91:7 105:16	77:1,6,22 78:1
original 13:12 90:16	pages 234:23 235:22	111:4,5,9,13 114:3	80:22,24 81:3
originated 172:8	238:3 241:19	117:2 129:21	99:23 104:7
outflow 232:8,15	252:24 253:14,17	198:6 250:16	106:14 111:25
outline 29:22,23	252:21 253:11,17	297:6,7 299:5	117:13 123:14,19
outline 155:16,19	PAHs 260:7	particularly 43:7	123:21,24 124:21
outlines 49:24	paid 122:12	particulars 27:11	123:21,24 124:21
235:19	paper 203:10	parties 166:21 191:2	126:12 129:12
outside 65:7 164:18	204:19 263:12,17	304:11 308:15	164:24 177:5
199:19 205:5	263:25 264:2,5,13	parts 143:8,24	197:7 198:4,24
261:11	264:19,24 265:2,5	144:11,14,19	199:17,19 200:7
ovals 155:20	265:9	145:10,24 147:3	203:16 204:1,22
overall 23:8 34:6	papers 204:20	148:15 153:5,19	205:4,5 215:4
149:8 153:24	262:18	154:6 158:2 159:2	223:25 237:2,4
258:7 261:15	paragraph 227:20	160:10,24 161:25	260:17 271:5
291:15	232:3 259:23,23	181:18 182:1	280:5,17
overflow 67:19	260:21 261:21	188:14 195:1,7,9	peoples 20:18
68:14 69:22 71:17	276:8	220:25 221:8,9	percent 140:22
215:14	paragraphs 227:16	222:2,10 255:18	141:20,22 142:5,7
overview 255:21	paraphrasing 248:3	255:25 274:19	144:25 145:3
overwhelming	pardon 232:4	280:25 284:10,11	147:11,15,18
181:16,17 182:2	parens 31:15	284:17,20,22	148:7,13 166:22
owned 227:12	part 6:12,24 13:11	pass 276:12	167:8,15 170:8
Owned 227.12	13:18 17:23 19:23	pass 270.12 passage 248:13	174:7,12 177:7,10
Р	24:12,18,21 34:15	passed 224:4,7	177:12,13 181:25
P 3:2	38:14 39:9 56:18	paste 235:8 236:2	182:14 183:17,18
Pacific 39:11	109:21,22,23,24	pasted 235:10	184:5 185:12
pad 54:4 55:2,23	128:17 129:1,16	pattern 149:8	199:23 201:19,21
58:14 155:17,23	129:24 131:22	paved 123:11	201:22 202:4,6,7
page 29:20,21,23	148:23 153:25	pay 10:10 111:10	247:21 248:5
188:21,22 189:3,3	164:5,8 173:10	145:20	percentage 140:4
189:5,9,9 207:3,22	183:2 187:20	Payaguaje 2:15	147:2 167:1 169:2
210:21 212:6	210:16 214:7	PCBs 15:24	169:22,23 170:3
215:9 216:19	220:15,15 240:11	Peers 266:22 267:3	277:16
217:18 224:3,3	244:25 247:10	267:4	Percial 193:25
226:13 230:9,9	267:24 274:22	Pelley 287:20 288:6	percolation 213:4,6
233:3 234:23	279:3	291:23 292:21	performance 23:8
236:4,18 240:24	Partially 7:4	294:19 295:12	performed 14:25
241:19,23 243:5	participate 287:6	pen 270:17	129:12
245:7 246:1	participated 9:25	pending 279:25	performing 151:2
249:19 253:20	particular 5:2 12:8	penultimate 246:1	period 12:1 35:23
254:3 259:19	26:23 27:25 34:25	people 5:22 13:15	82:11 84:18 98:13
268:15 273:11	45:15,19 53:19	13:16 21:16,19	119:21
275:15,15 280:24	56:13 68:20 75:19	24:9 36:4 45:10	Perito 282:8 307:18
283:5 285:6 305:7	81:10,11 84:8	52:17 76:12,22,25	permanent 71:24
	,		*

	1	1	•
72:3,12 86:12,16	107:19 108:1	piece 133:15 224:8,9	83:19,22,22 84:10
permission 32:12	110:21 116:20	pieces 198:25 235:6	85:11 86:8 126:13
permitted 143:11	133:4,5 137:10	294:20	155:2 162:20,21
299:16 300:2	139:13 145:9,19	pipe 68:1,4,13,16,24	162:21 175:15,18
person 146:12 199:2	150:2,3,5,6,21	69:1 70:7,15 71:8	177:19 185:18,18
199:7 201:25	151:11 152:6	75:10,10,18 76:18	186:5 190:21,22
239:3	202:12 218:9	77:3 80:7 83:17	190:23,24 192:1,3
personal 18:18,24	260:6 274:23,25	216:16,16 247:12	192:5,23 193:18
19:2,5 22:17 36:10	276:10 286:2,6	291:25 292:2,5	194:21,21 213:4,6
39:20 42:25 44:3,9	phases 51:2	295:10,12,14,16	215:14 216:11,15
45:9 50:9 51:13	Phone 2:5,12,18	296:7,8,9,11,23	233:13,13 243:24
69:11 71:16 74:22	307:13	297:6,15,16	244:2,7 248:20
132:3 180:23	phony 277:10	piped 43:19,20	249:3 269:12,16
215:16 216:10	photo 49:12 51:7,10	pipeline 39:8,9	269:20 270:8
238:14	68:12,25 98:3,6,22	40:12,14 43:21	290:21 292:3
personally 15:2	99:10 105:5,5,8,12	44:10 57:15,16	293:15,17 294:10
16:14 23:3 39:16	106:19 125:21	59:5 118:8,21	294:13,21,22,24
43:7 50:2 52:4	162:22	119:2,10,16	295:10,11,17,19
57:24 75:6 232:18	photograph 50:10	pipelines 39:6 43:7	295:20 296:8,10
240:2 268:11	50:12,19 53:4,9	44:1,9 45:6 118:5	pits 49:11,24,24
perspective 24:4,8	55:4,20 56:9 58:4	118:5,6,10,11,12	50:3,22 51:9,12,14
105:12 110:3,4	58:8,13 97:24	118:13 173:5	51:17,20,21 52:1
142:25 218:20	98:17 155:13,15	243:12	53:11 54:4,5,6,6,7
Peter 2:3	156:3,14,17,18,19	pipes 40:22 43:1,9	55:1 56:14,22,22
Petroecuador 181:7	163:17 269:17	67:19 68:2,15,17	56:23 57:1,4,5,20
181:14 194:12	photographer 50:13	68:18 70:2,19,25	57:25 59:7,25 60:2
205:2,9 232:20	photographs 68:13	71:18 77:7 99:5,9	61:11,22 62:3,5,9
238:18 293:13	269:13 271:9	105:9,13,15 106:9	62:22 63:20 64:1
Petroequador 33:25	photography 49:19	215:21,21 216:3	64:11,12,16,20
33:25 34:1,7 85:15	photos 49:20,23	232:15 239:4,7,15	66:1,2,4,8,15,16
100:16 101:1,6,11	98:12 167:25	291:24 297:3	66:19 67:9,19 68:2
114:9 115:2,6	phrase 152:9,12	pit 50:24 51:3,15,18	68:3,15,19 69:2,5
155:5 169:11,19	185:17 250:16	52:4 54:12 57:22	69:18,19,21,22
169:23 170:10,16	259:6	58:8,12,14 59:1	71:17,18,24 72:7,9
171:2 172:2,7,13	Piaguaje 2:14	61:24 62:1 65:1,7	72:11,23 74:22
172:19,20 173:2,6	pick 222:14	65:10,10,15 66:11	75:4,5,6 76:7,17
173:18,25 174:16	picture 50:6 58:19 68:7 89:24 118:9	66:12 67:24,25	77:13,19,21,24
175:3,10 Petroleo 285:12	127:6 154:19	68:3,5,20 70:2,6,8 70:12,12,14,15	78:13,21 79:12,18 82:7,9,20,22 83:6
petroleum 9:14 18:6	269:25 291:18,19	70:12,12,14,13	
60:18 87:5,6,23	293:8,15,21 294:8	74:17,17 75:15,19	84:2,8,12,16,24 85:4,20 86:1,1,10
88:6 93:16 101:18	295.8,15,21 294.8 295:6 296:6	75:20,21 77:2,7	86:11,14,15 88:7
101:24 102:2,13	295.0 290.0 297:14	78:7,7 79:2,17	89:15 125:18,20
101.24 102.2,15	pictures 123:24	80:6,9,11 82:5,15	126:15 149:3,5,6,7
104:12,23,25	155:8	83:11,12,13,14,17	149:10,11 155:3
107.12,23,23	100.0	00.11,12,10,17,17	177.10,11 133.3
	-	-	

155:20,24 158:20	252:16 270:7	73:2 79:15 102:24	286:2
164:17,18 165:16	plaintiffs 20:16	103:22 134:24	portions 45:22
165:17,20,21,25	21:16 22:12 137:4	135:6 146:18	151:11
166:2 168:22,24	147:20,24 148:6,9	148:3 158:7 161:1	portray 81:7
173:13 177:8,9,10	148:14,25 149:4	164:9 176:4,11	pose 96:7 206:3
179:2,10 182:13	149:10,14,19	177:18,21,24	posing 152:2
183:18 185:5,10	156:5 164:11,13	182:7,12 185:11	position 6:5 7:19
185:12,17,21	164:16 167:3,7	196:21,25 197:4	13:7,20 302:19
190:21,25 191:7	168:1,23 171:25	197:14 206:9	positioning 156:4
191:23 193:16	176:8 194:4 222:1	267:10 277:14	positions 206:4,10
215:10,12,22,25	223:24 301:20	285:3 286:25	possible 85:4 119:2
216:3 226:18	304:3	302:3,16 304:6	139:7
232:8,15 233:6,7	plan 179:14 185:19	pointer 73:11	post 189:17 205:9
233:13,14 238:9	185:24 186:4,6,8	pointing 109:1	potable 236:8,9,13
245:8,9,19,21,22	187:25 188:2,4,7	132:24 176:5	236:13,14,20
246:3,9,11,17,17	191:6,25 193:2	points 159:9 175:21	potential 10:1
246:19,21 249:21	plant 99:1 229:8	175:23,25 221:16	124:15 145:12
249:24 250:2	plantations 243:1	251:18 283:24	170:21 202:23
251:12 260:12	plants 5:18 96:23	284:16,18,20,21	potentially 234:3,8
265:16 266:12	298:22	285:1	299:10
278:7,16 279:13	play 188:11 220:25	pole 294:21	pour 68:19
291:25 293:11	played 202:13	policy 12:18 14:9,13	poured 122:23
299:15,25 300:1,7	205:11	14:14,18	123:5,9,23 124:16
300:7,8,9	please 3:7,17 10:19	political 31:7	PowerPoint 51:7
place 34:25 57:16	29:1 52:10 89:3,4	pollutants 5:16	127:18 289:19
62:7 79:17 83:12	89:18 92:7,17	217:22,25 218:15	powers 10:7
118:18,22 119:8	139:12 155:11	polluted 26:15	Pozo 282:23 307:17
119:14 120:4	166:11 170:2	pollution 9:13 10:24	ppm 141:21 153:14
123:14,22 139:5	171:6 182:9 183:5	11:6 17:9,14 18:3	178:22 179:1
171:17,22 217:14 223:19 229:25	211:6,15 215:9	18:10 24:13,20	185:6 193:13,16
230:7 288:3	252:13 256:12,15 259:22.24 262:22	125:22 126:4,10 224:24 225:20	285:4 ppms 153:11
308:10	271:24 273:1	226:2,9 231:25	practice 12:9,9 13:3
placed 8:15 65:10	276:22 279:21,24	234:19 241:12,15	41:5,7 42:22 84:15
83:17 85:9	285:7 286:14	298:5,15,16,19	87:21 94:2,14,21
places 15:1 26:11,24	294:15 297:22	polycyclic 9:5	95:1,2 125:7
76:22 77:25 84:13	299:22	pond 92:24	126:16,20,21,24
118:13 188:18	plot 158:20 161:23	ponds 227:24	127:3 238:21,25
227:1 270:23	163:21 204:9	pool 106:2	240:9,16,22 303:8
296:3	284:16	poor 39:25 111:20	practices 26:7,8,10
placing 64:20	plume 78:5,6 81:10	123:20 182:8	83:5 85:19 87:12
plain 103:19	plumes 78:12 79:1	poorly 41:16	231:20 234:1
plaintiff 1:9 2:7	pocket 100:9	populace 76:9	235:25 255:22
128:18 162:19	pockets 38:9	portion 30:22 38:25	263:19 264:5,8,10
221:10 222:9	point 33:24 58:15	155:12 252:14	298:3 300:13
	· · · ·		_

301:1	Presidencia 253:8	problem 14:17	116:9,19 117:15
pre 234:1	president 13:22	104:2 277:16	117:17 172:23
predictions 215:1,3	pretty 245:16	problems 251:14	213:2,12 218:21
prefer 131:8 254:16	prevalence 201:9	276:1	218:22 219:19
preference 304:6	prevent 83:7 224:24	Procedure 1:18	227:7,22 232:6,19
prefix 67:15	225:20 226:2,9	178:18 273:24	238:9,16,19
preparation 188:12	previous 54:24 55:4	301:22	239:16 246:24
252:17 258:9	129:10 134:25	proceeded 192:6	247:5 277:4 299:4
262:24 264:19	167:20 186:4	Proceedings 304:19	producer 287:20,21
prepare 271:10	260:15 264:19	process 114:14	288:1,2,8,11,12,13
prepared 187:2	308:7	190:4 192:7 227:8	288:20 289:2
193:7,8 207:20	previously 28:3	processed 33:8 39:5	290:12
210:5,6,7,10,22	110:12 141:16	236:9	producing 34:2
214:12 230:21	142:4 164:9	processing 39:2	42:23 87:25 99:6
243:6 252:15	172:22 177:17	42:10 57:12 59:5	170:20 171:10
258:12 259:10	178:25 221:2	98:8 105:9,10,17	204:15
262:23 263:3,4,10	282:1 295:17	110:10,11,13	product 23:11
267:23 270:22	297:2 303:11	171:12,16 236:25	production 11:16
272:4,7 280:5,6,11	primarily 5:16 89:8	239:4 257:8,24	20:21 26:17 32:2
280:14,17,21,25	107:14 173:4	produce 38:6 63:15	33:7,18 37:3,11,12
281:9,11	289:13	276:5	51:3 55:3,5,8,13
preparing 187:6	primary 48:11 49:3	produced 28:4,5,13	56:5 58:16 63:7,16
272:4 280:9	80:23 107:8,10	28:14 39:4 40:11	89:21 90:3,8,13,17
presence 79:9 102:9	principal 56:19	40:16 41:24 42:2,6	91:5 92:5,20 93:13
109:15 110:24	prior 23:21 24:15	42:8,9,11,15 43:4	93:17 95:2,18
112:18 153:3,18	91:16 92:20	43:8 46:18,19,21	97:11 99:1 118:6,7
present 2:21 45:2	114:10 128:14	47:2,7,8,12,22	136:16 169:17
113:10 114:23	129:8 131:2 155:5	48:1,6 61:18 84:9	170:11,11 171:5
116:6,7,19 124:8	169:19 170:9	85:10 88:16,24	172:6 199:12
126:5 165:14	173:22 175:3	90:17 93:22,22,25	211:18 213:2
184:22 246:9,11	207:2,13 226:17	94:3,8 96:3,12,14	214:5,7 219:5,17
249:12 294:2	227:19 228:2	96:22 97:2,18,21	219:23,23 239:22
298:21	229:25 233:4	98:8,10,14,19,25	243:7,11 255:10
presentation 27:23	234:2,7 237:9,21	99:7,17,23,25	255:14,16 260:3,5
28:1 29:18,24 30:1	242:3,5,22 249:13	100:12,15,17	260:8 303:3 306:5
53:6 56:19 127:18	253:10 273:4	101:1,6,7,10,13,17	productions 29:11
131:9 137:22	288:2,4 293:14	101:23,24 102:2	products 152:6
180:16,23 187:7	priorities 8:16	102:19,19,25	153:16
206:3,12 209:1	private 14:10	103:13,14 104:6	professional 1:23
258:25 262:5	probably 38:11 51:9	104:22,24 105:15	5:25 6:2 27:5
306:11	55:2,4 68:17 99:8	106:25 107:2,9,11	308:5
presented 47:11	114:7 150:16	107:17 108:1,8	program 4:22 5:1
104:13 117:8	190:24 191:3	110:20,25 111:8	118:18,22 119:8
124:15 169:3	195:14 245:17	113:1,5,8,11,12,17	119:14,15 120:4
212:9	267:9	114:12 115:4	120:10 121:13,14
	l		

			_
121:24 122:9,17	303:19	173:19 175:17	144:22 145:5
153:25 158:15	provided 8:7 22:2	177:21 191:19	147:13 150:18,24
217:14 222:25	180:22 241:11	193:21 196:12	151:5,15,20
229:24 230:6	272:7,10 281:3,10	206:9 211:22	165:10 168:12
287:7,18,21	284:8 289:10,11	256:18,21 268:4,6	170:2 179:15
291:14	301:21 303:22	274:6	180:13 183:21
programs 173:3	provides 213:1	purposes 91:12	200:9,10 206:3,5,6
prohibited 217:23	214:11 224:21	pursuant 1:17 218:5	218:2 220:1 223:3
project 8:6 15:17,25	providing 8:6	pursued 4:18	225:25 234:5
23:4,6,9 74:24	136:11 291:14	Push 74:4	239:2,13 250:19
189:1 230:2	Province 31:10	put 9:24 27:23	256:12 259:6
232:11 237:15,23	provinces 31:6	43:21 59:25 64:19	261:1 265:9,17
238:12 241:3	Provincial 253:7	72:9,11 75:4 77:5	266:4,13,20 280:1
243:14 244:3	pseley@gibsondu	83:22,22 84:9	293:2 299:21
249:6 261:15	2:6	85:11 91:8 101:9	302:13
277:19 278:2	Public 1:24 305:25	116:21 117:11	Questionable 127:1
279:4,5 286:25	308:6	120:1 132:22	127:3
287:8 289:3	publications 130:7	137:22 146:12,13	questioning 288:10
298:21	published 114:4	147:17 148:3	questions 28:3
projects 16:3,3,15	203:11 265:9	159:15 176:11	151:24,24 152:1
promulgate 87:10	pulled 210:2	180:13 183:13	200:8 214:18
87:15,17	pulls 296:24	185:9 198:5 206:8	277:12 291:9
promulgated 9:20	pumped 59:13 63:6	241:21 244:20	301:5,6
pronunciation	63:15 72:10 85:12	261:9	quick 52:11 265:24
50:14,16	90:25	putting 38:6 61:11	266:9,18 281:18
proper 211:11	pun 40:1	85:11 89:15 109:3	286:13,15
303:22	purchaser 145:12	115:19 261:6	quicker 63:13
properly 62:8	pure 144:12	P-E-E-R-S 267:5	quickly 270:21
property 145:8,9,12	purple 37:21 41:22	P.E 282:8	271:24
145:16,25	155:19	P.G 282:8	quite 12:24 41:17
propriety 164:1	purpose 21:9 32:21	p.m 127:12,13 180:8	61:17 85:25
302:9	35:18 36:18 48:18	180:9 230:16,16	111:11,14 131:5
protect 89:13 146:21	56:14 64:24 65:5	286:21,21 304:19	135:6 136:6
protection 7:11	78:4 88:10,13 99:19 100:5	Q	140:12 236:5 251:14,14 284:19
64:21 104:24	107:22 108:6	qualify 79:7 86:8	Quito 36:5 203:14
197:18,21 224:23	107:22 108:0	264:18	quote 210:24 220:6
225:6,17 240:24	129:6 131:12,15	quality 136:22	220:10,13,20
241:12,15 275:16	132:18 134:22,24	quantified 150:4,21	221:16 224:13,15
provide 7:21 11:4	135:13 139:14,18	quantify 151:13	224:17,21 225:1
22:11 132:22	139:20 142:11,15	question 20:2 21:9	226:19 231:3,5
142:24 146:8	142:24 147:4,7,16	24:17 25:9 30:20	232:5,14 233:3,23
169:15 208:10	147:17 154:18	65:14,20 67:7 69:9	233:24 238:7
212:7 224:15	164:5,8 165:12	95:15 101:5	240:25 241:21
257:5,22 268:6	169:12,15 173:17	114:20 135:12	243:5 244:17,21

212-267-6868

516-608-2400

244:25 246:23	RCG 10:13,18,20	82:1 99:22 104:4	288:14,24 289:7
247:22 248:6,14	11:12,17,17,25	123:12 134:19	291:7 292:9 293:1
248:14,25 250:9	12:4,5,5 13:3	148:24 149:12	received 4:19 36:3
250:23	reach 7:20 25:2,11	150:25 250:18	Recess 52:23 67:2
quoted 249:22	25:23 26:13 80:12	254:7 256:24	93:5 127:12 180:8
251:11	298:1 299:13,23	261:8 262:6,12	230:16 286:21
quotes 210:2 211:21	300:12	reasonable 46:1	recognize 188:21
211:23 219:12	reached 249:5	160:13 253:25	189:4,5 208:14
230:22 246:7,8,16	278:18 299:3	reasons 20:7 103:17	253:14,17 272:13
248:2 249:22	reaches 80:19	168:17 176:24,25	recognized 88:18
quoting 235:9	reaching 81:11	177:2,4 276:24	recollection 160:11
	read 34:5,11 35:11	recall 15:4,13 27:24	210:7 227:10
<u> </u>	40:8,24 41:12 42:5	27:25 35:25 43:10	256:17,25
R 3:2 305:1	43:3 44:8,9 56:10	61:6 96:19 97:15	recommendations
race 282:18	59:25 63:24 65:24	97:17,19 115:19	7:21 8:6,7
rain 69:10,17	67:25 84:21 85:1	116:21 117:3,3,11	recommended
rainforest 20:19	85:24 86:20 89:7	119:22,25 120:6	163:4 275:17
26:16,25 30:23	90:20 91:4 97:20	121:8,8 122:3,7,14	recommends 275:25
69:6,8,10,12,14,24	100:20 108:12	122:15 126:22	record 3:5,18 22:16
95:20 96:23	115:1 118:17	132:12 140:14	22:20 52:21 53:1
113:13 146:1	123:8 125:18	147:7 148:20,21	66:24,25 67:4,12
203:17 242:3,5,23	129:1 130:15	149:12 160:7	93:3,8 127:10,15
295:25,25 298:6	172:21 178:20	181:2 186:9	180:6,10,13 183:3
298:15	209:2 211:5,14	188:15,15 190:23	195:18,21,21,25
rains 69:12,13,24	212:14,15 213:10	191:1,25 193:9	203:15 230:14,17
106:8	213:12 224:6	198:7 199:4,16,18	252:25 286:19,22
rainwater 69:20,23	237:4 242:20	201:4 203:12	301:14,15 303:24
69:25 70:1,5 74:18	253:6 256:14	204:19 210:18	304:1,14,17 305:5
ran 46:3 random 244:23	258:21 259:21,23	214:6 218:18	records 170:7
range 140:12 202:7	274:4 277:6 283:5	224:20 226:25	203:14 269:8
286:1,2,6	285:7 305:3	228:14,17 230:5	recovery 248:19
ranges 150:1 200:21	reading 74:23 97:15	231:22 234:13	249:2
ranked 144:4	171:9 189:20	235:23 242:25	red 100:3 142:20
RAP 191:5	204:19 231:21	243:1 245:15,24	reddish-salmony
Rapids 3:21 4:1	259:22 286:3	250:7,18,20	39:7
rate 203:25 204:5,6	reads 213:21	251:24 254:20 255:17 256:4	reduce 94:21 reduced 171:15
204:9 254:10	ready 127:6 realize 240:1	257:20,21 258:3	176:2 308:11
rated 249:24 250:2	really 7:2 64:18	259:13 261:2,3	
rates 202:14 203:2	66:10,10 99:5	262:25 263:9,20	refer 193:5,11 220:10,15 246:21
203:16,21 204:14	105:24 128:8	266:17,19,21,23	reference 145:4
204:22 205:3,10	144:22 209:16	267:7,14 272:4	172:14 177:20
205:12,22	Realtime 1:23	273:7,22 279:4	198:18 203:3
raw 134:14 229:15	reask 95:15	280:8,9,23,24,24	208:1,2 226:20
229:18,19	reason 59:2,6 79:23	280:3,9,23,24,24	239:13 249:19
, ,	1 Cason 57.2,0 17.25	201.1,2,10 200.13	
II			

	1	l	1
254:14 278:22	regulates 14:19	rely 187:9,12,16,17	remove 17:14 24:13
306:9 307:2	regulating 139:8	209:10	24:20 28:18
referenced 187:20	151:12	remedial 179:14	120:10,21 121:4
208:25	regulation 9:15	185:19,24 186:3,6	184:21
referencing 172:15	109:4 151:7 198:3	186:8 187:24	removed 121:18
referred 32:10	198:6 217:21	188:1,4 191:5,24	135:22 136:2
215:20 220:17	regulations 10:4,6	193:2	170:22 274:25
279:1,3	14:22 18:2,6,9	remediate 8:2	removing 62:7
referring 172:18	41:5 62:2 83:4	159:22 219:8	121:24
185:17,25 186:4,8	84:1,15,21 106:24	remediated 159:21	Rep 307:4
187:22,24 203:6	138:10,11 198:2	160:18 183:16,23	repeat 24:17 256:11
214:4 220:9 227:3	234:4,9,15,20	184:9 218:1,4	299:21
227:18 233:10	264:7 300:25	274:11 278:7,15	repetitious 82:8
236:23 251:5,7	regulatory 9:19	remediation 24:13	rephrase 65:14
refers 190:23,24	84:7 213:23 214:3	24:19 120:13,14	101:4 170:2
191:5 199:6 286:1	217:23 223:15	160:24 183:19	replace 259:8
refineries 43:22	rein 6:13	184:13,19,20	report 18:21 22:21
reflect 87:11,25	reinject 91:9 93:18	185:13 191:1	49:17,18 108:4,10
reflected 82:14	reinjected 89:22	192:10,14,18,23	108:11 113:4
116:25 264:6	90:15,24 92:5	193:3 214:1	114:4 118:17
269:12	93:23 98:11	218:23 273:3	120:8 131:4
reflects 260:21	101:11 172:23	307:8	186:10,12 187:1,3
refresh 160:10	reinjecting 90:13	remember 8:10 9:7	187:5,8,20,22
178:4 227:10	100:16	13:8 22:15 70:21	188:4,7,11,16
256:17,25	reinjection 92:1,21	71:1 92:8 114:6,8	189:11,13,17,20
regard 18:23 253:1	92:22 107:9,15	114:17 116:14	196:6,8,20 197:12
277:12 304:2	reinjects 232:20	121:23 130:8,10	198:23 200:7
regarding 87:20	238:18	132:15 159:19	207:20 208:2,3,20
88:23 94:2 112:18	related 79:14 176:5	160:1,4,4,8,15,16	208:22 210:4,7,25
188:12 224:7	308:14	160:21,22 175:15	211:23 212:7
226:14 230:21	relates 9:22	177:18 178:3	219:13,22,22
regardless 204:4	release 176:7,8	187:23 189:25,25	224:10 226:25,25
221:25	217:25 231:8	201:7 207:14	230:23 231:21
region 24:10 123:17	released 215:11,24	208:23 213:9	232:4 234:25
144:4 197:8	226:18 231:7	214:21 219:21,22	235:5,8 241:5,22
regional 7:12 8:22	releases 215:15	224:13,14 226:24	241:24 243:6,6
Registered 1:23	232:7	227:2 230:24	248:1,3,4,9,11
308:5	relevance 17:16	235:1,2,22 261:11	251:24 252:15,17
registry 203:14	25:6 180:16	263:23 264:1	252:24 254:9
regular 42:22	214:18 225:10	265:8 277:7	255:7,8,12,17
121:15,19	231:14,15 262:16	287:20 292:11	256:4,18,21 257:2
regulate 14:19,23	264:17 272:20	294:25 295:4	257:12 258:3,9,13
138:13,16	274:14	remind 137:9	258:18,21,24
regulated 18:7	relied 189:13 207:12	remnants 66:15	259:9,10,14,20
61:15 138:6	209:3 223:23	removal 121:10	260:22 261:17
			I

	1	1	1
262:8 271:15	143:2 181:4	173:17 174:2	266:18 281:6,13
280:9 306:13,14	264:20	176:14,20 184:14	281:18
306:18	reprise 183:6	194:25 203:21	reviewed 127:21
reported 149:19	reproduce 211:10	respond 118:19,23	209:7 210:17
196:19 200:15	reproduction	120:4 173:5 303:9	214:20 267:9
201:4 202:9	234:24	responded 122:6	richness 220:21
218:11 219:24	Republic 159:22	respondent 200:15	RICO 19:24 20:9
Reporter 1:22,23,24	176:6	201:15,17	rid 120:22 240:12
3:6 29:1 66:23	request 27:24	respondents 202:8	rig 55:22
73:24 123:1	252:15 270:22	response 18:25	right 31:9 32:25
221:19,21,24	REQUEST(S)	39:13 121:19	39:18 43:11 50:11
308:5	306:5	122:9,17 217:14	55:24 70:14,15
REPORTER'S	require 61:17	responses 122:16	73:10 80:4 89:3,18
308:2	248:18 249:1	206:13,14	90:1 92:23,23
reports 22:16,19,22	required 192:2,15	responsibilities 7:18	93:24 97:19 100:3
43:3 94:6 97:8	192:17,22 213:22	27:4	101:22 109:8
123:8 130:9	214:15 224:22	responsibility 7:20	124:13 128:5
132:13 177:9	requirements	191:10	132:17 136:10
195:23,25 207:11	217:24	responsible 16:13	144:5,13 149:5
209:3 211:11,12	requires 149:25	23:6,7,10 35:14	154:12 156:12,21
211:12,13 212:1,6	requiring 211:17 249:14	229:20	157:9,10,14,24
230:23	, ,	rest 29:23,25 213:11 271:11	171:12 186:19 201:7 204:12
represent 31:3 37:6 38:12 40:3 108:15	research 6:7,9,10,12 6:17,19,24 267:7	result 5:5 17:7 19:8	201:7 204:12 214:22 228:25
108:17 109:9	267:11 273:6	25:21 134:5	229:3 231:5
159:12,16 200:20	279:4	215:14 308:17	237:13 239:9
252:23 253:19	researchers 112:24	resulted 219:8 287:7	246:8 253:9
252:25 253:19	reserve 79:2 265:16	resulting 16:17	264:11 266:8,17
303:25	303:15	21:19	282:20 285:13
representation	reservoir 100:7	results 27:7 133:21	288:14 289:16
51:15 54:10,11	residents 21:17	134:1,7,17 135:4,5	290:21 291:5,23
58:22 68:25	Resource 12:16	161:12 163:15	301:13 302:8,18
106:20 254:1	resources 4:20,25	182:16 208:21	304:14
259:15 293:24	5:17 7:24 8:5 10:1	257:2,3,11 274:22	rights 303:16
294:4 295:21	11:9 26:23 224:24	276:5 284:7	right-hand 50:7
representations	225:7,18 240:25	retained 216:1,6	58:4 68:8,8 97:25
155:8	241:12,13	retaining 215:11,24	105:5 143:22
representative	respect 18:1 44:6	returnable 303:7	281:24 282:7
114:11,20 270:25	47:11 56:4 87:20	Reuters 50:12	right-most 269:17
represented 30:1	88:7 94:3 112:17	reverse 192:16	rise 204:13 205:10
40:2 105:8 179:10	134:6 138:2 140:2	review 119:7 121:22	river 9:3,3 15:17,23
223:25	140:3 141:15	140:11 168:3	24:24 38:14,20
represents 30:14	142:2 143:10	187:4,8 209:10	41:23 45:12,20
40:20 74:7 136:1	147:23 157:25	210:20 258:10	46:3,3 75:23,24
140:25 142:22	167:1,11 170:14	265:14,24 266:9	76:1,2,19,23,24
			l

	_	_	_
77:2,4,6,7 80:17	row 91:23 136:18,20	163:22 165:16,20	181:12 182:8,15
80:19,20 81:12,13	285:24 286:4	181:5,5 195:6	182:21 194:4
104:8 106:2,13	RPR 308:22	244:23	284:7
110:15 226:19	rules 1:17 14:23	sampled 131:11,20	San 203:10
228:2 236:6,15	301:22	131:24 132:1,7	sand 216:23
237:10	run 34:2 236:25	133:13 135:1,3	Sara 2:22
rivers 9:1 26:16	running 45:10,11	140:3,20 141:13	satisfactory 218:23
38:11,12,13 42:12	118:5,7,8,10,14	141:14 142:6,18	satisfy 29:3
44:10 45:7,10 46:3	154:19 159:10	142:23 143:1,4,10	saturated 276:11
76:8,9,13,14,15,16	runoff 227:8 232:6	146:23 148:5	save 198:4
77:12,20,25 80:17	232:7,22,24	149:1 158:11	saw 57:24 58:23
94:13 95:3,19 96:3	236:18 237:2	165:23 167:2	64:4 66:18 67:8
96:8,20,24 97:10	runs 39:8,9,10 40:14	181:11,17,18	69:1 106:20 155:9
97:17 98:11,15,20	75:20 296:16	182:20 185:11	216:10,24 232:10
99:1 101:13 102:3		samples 112:22	232:13,14 238:12
102:4 103:21	<u>S</u>	113:1 114:7	238:21 239:3
109:6 110:5	S 3:2	117:16 133:3,8,18	245:4 268:9
113:13 136:14	Sacha 37:11,17 43:9	133:24 134:12	271:12,15 293:24
172:25 228:14	43:10,10 105:10	135:3,12,14,17	295:22
229:19 232:5,13	106:13 112:17	136:1,13,13,15,16	saying 102:18 107:7
238:10,17,20	113:2,7,22 194:20	136:22,24 137:1,4	240:12 241:15
239:23 298:17	194:21,21 232:24	142:1 143:17	248:4,4 289:7
RNA 6:24	255:10 282:23,25	147:2,11,14,15,18	says 29:22 33:4,6
road 76:23,23	307:17	147:24,24 148:5,7	86:20 108:11,13
118:10,14 124:25	safety 88:3	148:8,9,10,16	121:13 136:21
roads 77:21 122:23	SALAZAR 1:11	149:2,5,7,9 153:9	139:21 176:24
123:6,10,10,13,20	salinity 260:8	153:16,18 156:5,6	177:13 193:12
123:23,25 124:3,7	salt 90:1,2,2,6 92:18	156:9,10,24 158:8	194:10,13 195:14
124:16 125:6	96:22,24,25 97:2 101:17 102:22,24	158:10,12,16	208:16 214:5
240:3,10	101:17 102:22,24	161:12 162:18,23	215:10,23 216:20
roadways 243:11	219:7	163:15,18,20,24	217:18 218:15
Rochester 4:1 6:5,7	saltiness 96:20	164:2,16,18,23,24	224:4 226:17
6:20	salty 90:4	165:2,3,5,6 166:5	227:5 231:5 232:4
rock 59:15 63:12	Salud 130:3	166:20,22 167:1,7	233:3,24 236:5,5
rogue 210:16	sample 70:13	167:11,14,18,21	236:18 237:13
role 20:12 23:3	133:19 135:19,20	167:25 168:17,20	238:3,8 239:21
188:10 202:13	135:23 137:12	168:22 179:9,13	240:3,24 242:1
205:12 220:24 Roll 292:12	140:21 148:14	182:18 269:19	243:7,21 244:10 244:21 246:23
rough 293:17	149:23 153:25	270:8,8 284:8,10	244.21 240.25 248:16 250:9
roughly 7:14 85:2	154:2 157:12,17	sampling 115:12 133:1,1 134:16	248:16 250:9 251:24 253:6
133:9 161:18,24	157:18,20,25	135:7 136:7 151:6	255:15 257:5
162:1 179:3,4	158:3,18,22 159:3	153:25 161:20	273:12 277:15
202:7 207:3	160:25 161:4,8,15	164:20 165:13,15	278:5 282:7,23
288:24	161:17,24,25	164.20 105.15,15	283:17 285:16
200.27		100.0,0 173.1	203.17 203.10

296:24	252:2 259:23	281:7,25 282:4,5,7	18:15 19:25 20:24
scale 32:23 156:17	265:16 274:21	282:9,11 283:14	21:3,8,24 24:15
157:13 179:19	277:24	283:16,20,23,24	25:5,15,19 26:1,5
243:2 300:7	secondary 243:12	284:16 285:13,14	26:18,22 27:8,14
scales 179:22	secondly 218:18	285:15,17 292:4,6	27:17 28:2,6,9,15
scene 291:22	Secretary 253:8,16	294:12,14,23,23	28:20,24 29:2,5,7
schematic 40:1,7	section 127:18,20,24	295:9 296:10	29:10,14 30:15
72:17,21 73:21	246:3 259:19	297:18	31:4,17 32:7,17
74:14 78:4 79:1	265:6,10,16,21	seeing 61:6 228:14	33:2,21 34:18,23
81:6	266:2,5,10,19	230:5 292:14	35:9,20 36:9,13,21
school 3:22	267:6,8,8,12	293:14	38:16,23 39:12,23
scientific 23:8,10	289:17	seen 32:1 33:4 41:10	40:5 41:3,8,19,25
150:12,25,25	sections 234:25	43:1,1,9 44:11	42:13,17,20,24
176:13,15,20	267:13	45:7,9,20 50:23	43:5,15 44:2,7,13
206:4,11 272:14	sediment 70:17,18	51:9,10,18,21 52:1	44:17,20,24 45:4
273:5	80:20 133:2	52:5 53:13 54:16	45:22 46:5,9,12,24
scientifically 152:4	135:20	55:19 56:8 57:5	47:4,9 48:4,9,20
152:10	sediments 24:24	66:1 67:24 68:15	49:8,15 50:1,8,20
scientist 10:22	104:1	70:11,13,14,16,19	51:4,16 52:2,6,8
16:10 94:10 103:5	see 30:25 31:14 37:2	70:20 75:4,5 76:12	53:7,15 54:1,14,21
114:21 124:15	37:4 38:3,24 39:1	76:13,14,22 77:6,7	55:9,15,25 56:6,11
144:16 152:13	39:6,7 40:9 54:25	79:8,15,18 85:15	56:16,25 57:3,9,23
188:25 222:14	55:22 66:12,14,16	87:23 97:3 99:6,8	58:2,5,17 59:10,22
229:6 231:10	74:14 76:25 77:1	101:22 123:15	60:5,8,11,22 61:2
261:22 266:22	80:5,6,7,9 89:9	126:11 167:24	61:12 62:10,17
scope 185:20,23	92:21 99:12 100:8	173:11 207:22	63:2,17,21 64:2,8
186:6 188:6,9 191:8 219:21	121:4 123:11,19 125:21 135:12	216:2,13,15 232:18,19,22,23	64:14,25 65:3,8,11 65:18,23 66:6,20
Scott 287:19 291:22	125.21 155.12	232.18,19,22,25	67:10,13,16,22
292:21	157:13 159:1	240:11 242:16	68:6,10,21 69:4,15
scrapes 64:18	163:17 167:17	243:20 281:13	70:3,9 71:13,20
screen 27:20 73:3	175:10 180:16,19	segment 289:21	70:3,5 71:13,20
73:18 92:23	182:22 183:22,22	297:24	73:20 74:11,25
291:18	188:20,22 191:6	segments 212:7	75:7,13,16 76:3,10
se 17:11	194:17,19,23	select 51:6 235:21	76:20 77:14 78:2,9
seal 308:19	199:22 215:25	selected 232:4	78:15,23 79:4 80:2
Sebastian 203:11	225:1 226:14	233:24 244:16	80:13 81:5,8,20,25
second 79:22 89:16	227:16 238:7,16	257:17	82:18 83:2,9,20,24
104:4,19 128:16	238:18,20,24	selecting 211:23	84:4,19 85:6,22
147:17 162:24	239:5,14 240:25	222:16 223:10	86:6,18,25 87:13
178:22 187:19	244:20 248:13,14	selection 164:2	88:11,21,25 90:11
196:21,25 197:4	253:4,23 254:3,22	190:5 230:22	90:18 91:1,13,20
210:3 211:5	256:7 269:11	selective 168:5	92:9,12,25 93:19
212:18,25 217:18	270:5 273:8,21	selectively 158:9	94:4,15,19 95:6,13
226:13 241:25	277:7 280:10,13	Seley 2:3 17:16 18:4	95:21 96:1,5,9,17
	l		

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

97:5,13 98:1,21	176:17,22 177:3	242:24 243:16	sensory 39:21
99:3,15,20 100:18	177:16,22 178:13	242:24 243:10	sent 39:5 43:22 59:5
101:2,8,20 102:5	179:7 180:12	245:12,23 246:13	133:24 135:23
102:15 103:2,10	181:8,20,22 182:3	247:3,6,15 248:10	136:2 171:11
104:10,15 105:3	182:10,24 183:10	248:22 249:7,17	209:24 210:9,17
105:18,20 106:17	184:2,11,16,23	250:4,13 251:1,23	235:12
107:3,5,23 108:24	185:2.8 186:1	252:6,9 256:3,10	sentence 34:8 213:1
109:16 110:6,16	187:10,15 189:12	256:22 257:9,14	213:11,20 214:4
111:1,17,23 112:4	189:22 190:8,14	257:18 258:1,15	214:11 227:14,19
112:8,20 113:14	191:14,20 192:8	258:19 259:11,17	240:1 242:1
114:1,18,24 115:9	192:11 193:14,22	260:1,24 261:24	273:12 276:7
115:13 116:3,13	194:8 195:2,11,19	262:9,15 263:14	278:23
116:17 117:9	196:2,13,23	264:3,15 265:11	sentences 227:16
118:1 119:4,18,23	197:13,22 198:8	265:18,22 266:6	sentencia 128:23
120:16,20 121:6	198:15,20 199:9	266:15 267:19	129:4 196:9
122:1,20,24 123:2	199:13 200:3,16	268:17,25 269:6	separate 37:11
123:7 124:4,10,18	200:19 201:2,12	269:21 270:1,12	130:8 176:12
125:9,15 126:3,7	202:10,15,19	270:15 272:11,19	183:8 209:25
126:18 127:2,9	203:7,23 204:17	274:3,12,18	250:20 261:2
128:4 130:19	205:14,19 206:1,6	275:13,19 276:6	288:19,22
131:13 132:3,8,20	206:16,21,24	276:16 277:11,20	separated 39:5
134:8 135:15	207:3,8 208:9,14	278:3,9,19,24	40:16 42:7 43:18
137:20 138:3,22	208:18 209:5	279:7,14,22	90:8 110:14
139:2,16 140:7	210:12 211:1,7,20	280:19 281:4,16	separately 224:16
141:2,18 142:13	212:11,17,22	284:2,13,23 285:2	separates 166:15
143:13,25 144:20	213:16 214:17	285:22 286:7	separating 275:24
145:13,21 146:2	215:6,18 216:7,12	287:4,9,24 288:9	separation 249:24
146:16 147:5	216:17 217:2,9	289:6,15 290:2,24	250:2
148:1,18 149:17	218:6 219:1,10	291:20 292:17,24	September 1:6,20
150:14 151:3,21	220:11 221:5 222:5,17 223:11	293:9,22 294:1,6	3:4 224:4,7 308:19
152:7,17,24 153:7 153:21 154:3,9,21	222:5,17 225:11 224:11 225:8,14	294:11,18 295:2,7 296:1,13 297:1,5	sequence 227:15 series 49:19 117:21
155:25 157:2	225:19,22 226:4	290:1,13 297:1,3 297:20 298:7,13	137:8 156:11
159:6,13,24	226:11,22 227:13	297.20 298.7,13	196:5 210:1
160:12,19 161:2	228:8,20 229:1,11	298.18,25 299.12 299:12	serious 8:17
161:10,22 162:15	229:21 230:3	300:18,23 301:2	serve 19:17,20 20:7
163:5,10 164:3,7	231:12 232:1,12	301:13 302:2,18	21:22 302:6,20
165:7 166:12	233:1,8,16 234:10	303:5,10,19,23	served 20:12 91:12
167:4,12,22 168:7	235:16 236:11,16	304:13	191:19 303:8,11
168:14,25 169:5	236:21 237:6,11	send 211:23 235:22	service 11:22 12:12
169:13,25 170:6	237:16,24 238:13	244:17	12:13 15:15 16:1
170:17 171:7	238:23 239:1,10	sending 210:15,19	17:3 303:15
172:10,16 173:14	239:18,24 240:6	sense 128:14 219:20	services 11:5 22:2
174:4,18,23	240:14,18 241:8	sensitive 141:7,7	22:11
175:12,19,24	241:17 242:7,13	221:15	set 32:11 40:23
	,		

125:20 169:3	163:21 167:19	sic 153:3 230:23	58:11 60:1 64:17
195:1 308:11	190:4 212:3 219:5	244:11 285:12	74:8 79:10 85:10
sets 137:24	244:8 291:13,13	side 68:1 70:12 71:9	85:14 98:10
seven 301:21 302:11	showing 30:21	75:20 83:17 97:25	109:12 113:23
sewage 226:14,17	91:15 102:21	105:5 108:12,16	142:22,22,22
226:20 227:7	115:23 133:23,25	143:22 147:17,17	147:10,10,12,14
228:24 229:9,18	136:19 142:17	154:18 188:20	147:15 153:24
229:19 230:10	147:9,11 157:16	215:22 238:4	155:21 156:6
231:4,6,8,11,23	158:8,9,17 164:8	282:22 295:10	160:3 162:21
237:9	167:24,25 176:23	296:9	165:14 170:19,21
shapes 284:18,21	181:10 185:10	sides 68:19	170:23 171:1,4,15
shareholder 13:12	190:15 200:13	signature 308:19	171:17 175:2
shift 138:13 252:1	276:25 286:4	significance 115:11	177:25 178:6
shifted 139:6	289:20 293:8	122:22 134:20	181:5 184:8 188:6
ships 43:22	shown 38:21,24	143:21 146:13	190:21 191:9
short 127:8 180:3	54:19 68:14 156:2	174:20 189:11	192:15,20 238:3,4
286:18	156:11 157:5	significant 71:25	244:10 260:10
shorten 10:18	162:21 168:19	103:4 124:14	267:24 268:9,16
shorthand 1:22	200:12 204:9	145:24 212:8	268:20 270:5,24
308:10	280:24	signpost 241:21	271:4 293:11,12
shortly 56:5	shows 35:22 36:11	similar 14:3 33:14	294:3 295:8 297:8
shot 297:15	53:10 55:6,20	50:22 51:17	sites 7:22,23 8:3,9
shots 111:21	57:21 58:4 81:9	113:10 114:22	8:16,17,19,20,24
show 50:6,19 51:11	89:8,20 101:23	116:4,5 143:15	8:25 9:7,12,24,24
71:5 72:21 73:3,17	107:25 109:18	167:19 168:16	10:23,23,24 11:11
75:14 78:21 80:4,5	113:4 125:17	207:24 208:23	11:14 14:5 17:18
88:13,17,23 89:17	131:17 135:17	221:15 245:18	26:17 49:25 53:10
94:2,24 96:14	136:25 140:19	267:13 273:4	53:13,17,20,25
108:6 110:1 111:4	142:5 143:15,16	291:11 297:3	54:3 55:6,13 56:9
112:16 116:8,19	146:22 154:24	similarly 264:18	57:19,21,25 58:9
117:17 123:24	155:16 157:7,23	simply 279:12	64:1 77:20 81:16
133:19 142:15	158:20 161:12,23	single 138:8 178:16	85:16 86:2,12,16
147:8,23 148:6,9	166:19 167:6,14	207:22 245:1	110:7,9,9 131:11
148:10 155:22	174:11,25 203:25	288:21	131:20 133:13,18
161:21 162:7,18	271:12 280:6	siphon 215:15	135:1,3,4 140:5,20
162:22 164:13,15	285:21	siphons 215:10,20	141:20 142:6,18
167:1 170:7,13	Shushufindi 37:9,20	215:23	143:4,10,16,19
172:21 179:17	58:9,10,11 112:17	sir 20:25	144:2,5,6,12
184:1 194:15,24	112:18 113:2,3	sit 119:16 201:7	146:22 147:11
199:22 201:9	154:19,25 160:17	275:8	148:21,23 153:1
212:2 260:11,15	165:3 228:3	site 8:12,13,14 9:4,8	168:24 169:17,22
270:9 289:17	268:20 290:22,23	9:16,17 14:17,21	170:4,7,15 171:24
293:1 297:14	shut 118:21 155:4	15:22,22,24 32:2	172:1,3,6 173:21
showed 102:20	170:9,20 173:22	50:21 53:11,22	173:21,23 174:3,7
133:6 148:14,16	175:3 293:13	54:12,23 57:20,22	174:12,14 175:8

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

181:5,11,12,16,18	102:18 104:20	small 77:19 243:2	80:10 81:6,15,23
181:25 182:19,23	106:23 107:7,17	277:15 294:20	82:4,25 83:8,25
183:16,17,19,23	107:22,25 108:6	296:15	85:3 86:3,14,22
184:5,5,21 188:8	109:20 110:20	smaller 30:25	87:3,18 88:22 89:5
211:19 217:20	115:19 117:11,21	smell 39:20 71:3,11	89:23 90:12,23
218:3,10,13	117:24 118:9	270:6 292:10	91:11,21 92:11,14
219:23 222:25	122:19,22 125:14	296:25 297:10	93:1,9,24 94:9,18
233:14 237:1	125:14 127:24	smelled 70:17 71:3	94:23 95:14,24
243:11,22 244:11	128:2,6,12 129:5,6	271:13,15 297:4	96:6,13 97:6,22
244:23 245:1,2,4	129:7,10 131:9,10	smelling 71:7	98:5,22 99:16
246:18 247:21	131:12,15,17	smells 71:6 296:24	100:2,25 101:4,12
248:5 249:12	132:17,18,22,24	smoke 125:24	102:1,8 103:3
255:24 257:4,7,12	133:6,19 135:1,11	Smyser 2:9,9 3:6,12	104:11 105:4,19
257:16,22,24	135:13,17 137:7	17:25 18:11,25	105:22 106:19
258:6 260:4,12,13	138:9 139:12,12	19:7 20:5,6 21:2,5	107:4,16 108:9
260:14,17 267:25	139:15,19,20	22:9 24:18 25:11	109:7,19 110:7,19
268:7,11 306:23	142:10,10,12,15	25:17 26:3,13,20	111:15,19 112:5
307:5	143:16 146:24	27:2,10,18,19 28:5	112:13 113:9,16
sitting 214:21	147:1,2,4,7 154:13	28:8,12,17,22,25	114:5,19 115:10
290:19,20	154:14,17,24,24	29:3,6,9,13,15,16	116:2,10,16,23
situated 242:1	166:6,7 167:20	30:19 31:9,21	117:20 119:6,20
situation 83:23	169:10,12,15	32:19 33:9,24	120:12,18 121:2
223:18 242:5	170:9 171:23	34:20 35:13,25	121:20 122:18,21
six 8:25	173:16,17,19	36:14,25 38:21	123:4,16 124:6,13
size 51:25 99:8	175:14,17,21	39:15,24 40:12	125:4,13 126:4,14
skimming 269:15	176:11,16,23	41:4,20 42:14,21	127:1,5,16 128:5
skip 196:7 270:12	177:20 180:15,22	43:6,23 44:5,14,21	128:10 130:23
slide 30:5,11,12,13	181:1,2 182:5,7	45:1,24 46:10,15	132:6,10 133:10
32:20,22 33:6	183:5,7,8,9,13	47:1,10 48:10 49:9	134:18 135:19,25
35:16,16,18,22	185:4,4 187:6,19	50:2,11 51:6 52:3	136:4 138:1,17,24
36:2,15,15,18	187:21 188:12	52:9 53:2,16 54:9	139:11,18 141:11
39:25 46:18 48:11	190:3,4 191:19	54:17 55:11,18,24	141:25 143:21
48:11 49:3,10	193:7 196:12,17	56:2,12 57:1,7,24	144:10 145:6,22
52:10 53:3,5 54:9	198:17 203:1,1,6	58:3,19 59:20 60:3	146:10 147:22
54:18,19,19,23	205:25 206:2,8	60:9,23 61:8 62:11	148:11 149:15
56:13,13,15 63:4,9	207:1 208:1,3	62:21 63:1,3,18	150:11,19 151:18
64:10 72:16,16	262:5 306:11	64:3,9,23 65:1,13	152:3,11,23,25
73:2 79:23 80:5	slides 48:13,13,16	65:22 66:3,7 67:6	153:15 154:4,12
81:9 82:5,15 87:4	48:19,22 101:9	67:12,17,18 68:7	155:7 156:1,13
87:4 88:8,10,13,23	109:3 117:22	68:24 69:5,17 70:5	157:19 159:8,18
91:12 93:15,25	125:17 137:8	70:21 71:16,23	160:8,16,23 161:6
94:1,24 97:23,25	196:6,9,12	72:2,15 73:1,6,15	161:20 162:3
98:6 99:17,19,22	slightly 183:15	73:17 74:1,9,21	163:3,8,11 164:6
100:14,16 101:5	264:23	75:9,14,25 76:6,16	164:19 165:22
101:14 102:10,12	sludge 246:8,11	77:10 78:3,11,24	166:25 167:10,17

168:3,10 169:1,10	243:21 244:9,15	141:5,16 142:3,11	179:24,25 181:22
169:21 170:3,13	245:6,25 246:23	142:16 143:19	185:14,16 186:1
171:3 172:11	247:4,10,20	144:7,15,19,25	186:20 192:22
173:15 174:17,19	248:21,24 249:16	144.7,15,19,25	197:2 207:8
175:13 176:14,19	249:18 250:9,22	150:2,5,6,8,10,21	208:19 210:13
177:1,15,17 178:8	251:10 252:1,4,8	150:23 151:2,16	216:17 219:4
178:24 179:16,25	251:10 252:1,4,8	152:15,18 153:4,4	221:20,23 228:21
180:4,25 181:15	256:5,13 257:11	153:19 154:6	230:11 231:1
181:21 182:4,25	257:16,21 258:8	156:6,9 157:4,12	243:7 244:15
183:25 184:12,24	258:17 259:5,18	158:18 159:17	252:8 253:10,12
185:3 186:3,11,14	260:20 261:13	163:4,18 167:20	256:11 259:19
186:19,23 187:4	262:2,13,18,20	168:6,17 173:16	270:13 279:24,25
187:12,18 189:19	263:16 264:9	173:20 174:6,8	280:12 294:6
190:2,13 191:11	265:1,15,19 266:1	178:23 181:19,21	299:21
191:17 192:9,24	266:10 267:17,20	183:6,14,15	sort 34:13 37:17
193:19 194:6,14	267:21 268:19	184:15,22 243:8	48:15 64:20 76:14
195:8,17,24 196:5	269:4,10,24	243:10 247:11	145:19 159:18
196:16 197:1,14	270:13,16,19	271:14 274:9,24	185:13 217:13
198:13,16 199:10	271:21 272:17,24	275:1,3,3,8,24	294:14
199:21 200:17	274:7,16 275:14	276:2,11 297:17	sounds 59:12 160:13
201:8 202:11,17	276:7,20 277:14	297:19	251:5
202:25 204:12	277:24 278:5,14	soils 133:1 141:8,21	sour 31:23,24 32:1,5
205:7,17,24 206:2	278:21 279:6,11	141:23 143:1	source 49:12 79:10
206:17,25 207:5,9	279:17,19,23	146:23 151:8	80:25 117:25
207:17 208:7,16	280:20 281:12,20	275:11,22 285:10	174:20 193:20
208:19 209:2,6,21	284:6,25 285:6	298:16	194:16 195:13
210:14 211:2,14	286:9,24 287:6,11	sole 282:18	sources 48:12 49:3,5
211:22 212:21,24	288:5,15 289:16	solely 170:15	79:11 97:9 117:23
212:25 213:20	290:5 291:4 292:6	solid 293:19	118:4 127:19
214:23 215:8	292:12,13,19	soluble 111:11	128:2 129:8 149:1
216:9,19 217:6,17	293:7,23 294:8,15	115:16 116:6	170:20 197:10
218:22 219:11	294:16,25 295:5	somewhat 159:2	229:4 237:5
220:20 221:25	295:16 296:5,19	176:16 256:19,24	251:14,18
222:13 223:6,22	296:20 297:2,9,12	songbirds 5:3	south 14:25 15:4,6,7
225:12,17,24	297:13,22,23	soon 55:7,17,21	15:8,9,12 43:10
226:12 227:4,17	298:11,19 299:13	84:11 100:21	112:18 113:3
228:21 229:5,23	299:23 300:12,21	173:2	156:16
230:8,19 231:17	301:3,11,19	sorry 4:5 24:17 25:9	SOUTHERN 1:2
232:2 233:2,18	303:21 304:8	29:2 36:23 37:25	Spalding 2:23 73:9
234:22 235:21	306:3	73:24 74:3,19	73:13,22 238:5
236:17 237:8,14	soil 24:22,23 26:16	87:19 92:11 97:23 100:18 123:1	Spanish 32:10 130:2
237:20 238:2,6,24	61:23 64:21 65:9		130:2 253:22 306:18
239:12,25 240:15 240:23 241:18	135:20 137:17,25 138:6,12 139:14	124:5 152:9 155:13 162:16	
240:23 241:18 242:11,18 243:4	139:21 140:21,24	166:1 177:22	spanned 11:25 speak 30:17 91:10
272.11,10 243.4	137.21 140.21,24	100.1 1/7.22	spean 30.17 31.10
			•

		I	
speaking 177:24	119:5,19,24	291:21 292:25	stamping 207:23,24
301:19	120:17 121:7	293:10 295:3	208:24
speaks 167:13	122:2,20 124:11	296:14 298:8	stamps 208:15
183:11 200:5	125:10 126:8,19	299:1,19 300:19	stand 27:7 258:17
245:13 248:11	134:9 145:14	speculative 55:9,25	258:24 259:8,14
260:2 264:4 284:3	148:2,19 150:15	58:18 72:20 215:7	262:14 264:13,20
special 127:4	151:4,22 152:8	216:7 286:7	standard 41:14 61:8
species 220:22	153:8,22 154:10	spell 267:4	61:16 86:9,13
221:17	160:20 161:3	spend 129:2	93:17 107:2,8
specific 6:22 11:10	163:6 164:4 165:8	spending 180:20	109:22,25 112:6
14:17,17,21 37:7	167:23 169:6	spill 17:2 46:2 68:3	112:10 115:21,24
45:6 47:7 50:22	170:1,18 174:24	97:18 118:25	116:12,22 117:2
54:12 56:21 58:10	181:23 184:3,17	119:10 120:13,15	125:7 126:16,21
61:6 62:20,24	189:23 190:9	120:24 121:19	137:15,16,18,23
65:20 79:9 111:10	191:15 195:3	122:5,9,15,17	138:2,18 139:24
122:16 151:23	196:3 197:23	217:13	140:5,10 141:6
153:23 168:12	198:9,21 199:14	spilled 44:14 45:18	145:1,4 146:5,7,19
190:19 220:2	201:3,13 203:8,24	120:7	146:20,24,25
231:20 246:16	204:18 205:15	spillover 70:24	152:19,20 154:8
251:5,6,8 255:24	206:16,22 213:17	spills 16:18 43:25	159:16,20 160:1,4
275:5 299:3	217:3,10 218:7	44:6,8,11 45:2,3,6	160:5,7,23 161:4
specifically 47:6	220:12 221:6	45:8,15,19 46:1,14	166:24 167:2,9
70:20 97:21 98:4	222:18 223:12	70:15 79:12,13	169:9 175:5,6
148:21 152:2	225:9 226:6,23	118:4,18,19,20,22	178:10,16,22
156:10 199:4	228:9 229:2	120:1,2,5 121:14	179:1,6 197:19
204:24 218:19	231:13 233:9	121:16 122:10,13	217:7,13 221:1,8
233:11 234:13	234:12 236:12,22	173:4 216:21,25	221:10,11,13,14
236:24 240:22	237:12,17 238:14	217:5,7 243:22	222:3,11,15,16,21
263:23 267:14	239:19 240:7,19	244:10 245:4	222:23 223:8,10
281:11	241:9 242:8	spill-by-spill 217:12	223:24 274:21
specifics 62:6 83:11	243:17 244:14,19	217:15	275:6,9 276:9
83:23 92:8	245:13 246:14	split 128:8	278:12 299:8
specifying 62:3	247:7,16 248:11	spoke 82:24	301:1
speculate 191:18	249:8 250:5,14	spoken 19:11	standards 9:19 10:9
speculation 49:16	251:2 256:23	spot 93:2	18:2 25:25 61:14
58:7 63:22 68:22	257:15,19 258:2	sprayed 240:10	61:17 62:15 84:23
70:10 74:12 75:16	258:20 259:12	spraying 240:3	86:4,24 87:11,16
76:4,11,21 77:15	260:25 261:25	spread 38:4 72:22	87:17,20,25 91:17 104:23 105:1
78:16 79:5 80:14	262:10 264:15,16	spreading 65:7	
85:23 86:7,19	265:12 266:7,16	square 30:2 51:21	107:12,13,13
87:14 93:21 95:7 95:22 96:10 98:2	270:2 272:12 274:13 277:21	squares 39:2 ss 308:2	117:19 137:13,14 138:7 139:5,5,10
93:22 96:10 98:2 99:4 101:3 102:6	274:13 277:21 278:25 279:15	stamp 253:3,4	138:7 139:5,5,10
105:21 112:21	278:25 279:15 281:17 284:3,14	254:25 282:1,2,5	140:16,17,18
103.21 112.21 113:15 114:2,25	287:5,25 290:25	stamped 254:4	140.10,17,18
115.15 114.2,25	201.3,23 270.23	stamptu 234.4	171.17 131.0
		•	•

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

178:15 179:9,13	197:17,20 229:24	stop 119:1 189:6	110:5 113:12
213:24 214:3	271:2 299:14,25	stopped 27:2 170:11	136:14 172:25
223:14,15,19,21	300:17	249:13	213:3,13 227:6,21
240:17 264:6	state-by-state 139:4	storage 62:2,4 82:20	227:24 228:7,13
300:16	station 40:13,15,15	84:3,17 85:1 92:4	229:10,19 232:9
standing 91:24	41:23 59:5 105:10	store 92:24	232:17,20 236:19
292:1,7	105:17 110:13	stored 92:20 226:18	236:19,25 237:2
stands 137:9,10	171:16 230:10	stormwater 106:7	239:16,23 260:13
stars 156:7	231:4,11,20	story 116:4 204:21	298:17
start 4:22 13:11,18	232:24 244:22	287:1 290:13	Street 1:21 2:17
13:19 32:3 106:4	255:10,16	straddled 12:1	302:22 308:23
106:10 127:24	stations 26:17,25	straight 235:8	stretches 109:8
196:11 219:12	33:7,14,19 39:2	straighter 51:22	strike 36:13 39:12
297:17	42:10,15,23 43:2,6	straightforward	41:3,19 42:13,20
started 13:4,9,16,17	43:18 57:12 98:8	245:17	43:5 44:13,20,25
18:15 55:5,8 56:5	105:10 108:2,8	Stratus 11:19 12:1,2	45:22 46:9 47:9
171:21 287:23	110:10,11 113:2,5	12:25 13:2,4,6,7	48:9 49:8 50:1
starting 91:16	114:12 118:6,7	13:21 14:1 15:3,4	51:4 52:2,8 53:15
180:11 190:22	131:19 132:1,6	16:11,16 20:12	55:9,25 56:11,25
230:18 248:14	139:23 141:12,12	21:22 22:16,19,22	57:23 58:17 60:8
starts 93:7 127:14	141:14,21 169:18	23:13 25:1 27:4	60:22 62:10 63:2
241:19 253:15	171:12 199:12	30:5 60:23 188:25	63:17 64:2,8,25
290:6	219:18 227:6,12	252:15 254:19	65:8,12 68:6,21
state 10:4,6,8,8 11:2	229:25 231:23	262:23 263:3,4,10	70:3 72:14,25 75:7
11:21 12:20 14:8	232:8 239:4	263:13 266:22	78:2,9,23 81:5
17:4,4 18:8,9	243:11 246:3,17	273:14 280:18	83:20,24 88:21
61:16 62:6 84:22	246:19 255:14	281:9,15 306:18	90:11 91:20 92:25
107:13 138:6,7,7	257:8,24 260:5	Stratus's 18:12 23:4	95:13 96:5 97:5
138:10 140:5,10	statistical 134:21	stream 9:9 24:24	98:21 99:15 103:2
140:11,13,18	197:15,20,25	68:19 70:16 71:10	104:10 105:3,18
151:7 253:16	202:17,21,22,23	80:16,19,20,20	105:20 110:6
276:8 301:13	stayed 227:2	104:13 106:2,3,4	112:4 114:18
308:1,6	steel 68:18	106:11,12,13,16	115:9 122:20
stated 21:25 241:4	step 293:20	110:15 231:6	124:4 126:3
statement 215:17	steps 150:1	291:23 295:15	145:21 152:24
243:14 250:21	Steven 1:14 27:24	296:18	154:3 155:25
277:17	209:24 263:1	streams 9:2 26:16	159:6 163:10
statements 210:2	266:25 267:23	26:24 42:11,16	168:25 172:10
212:1 291:14,15	270:23 272:6	43:8 45:7 46:20	173:14 174:18
states 1:1 8:23,25	273:9 287:14	77:19,20 80:17	175:12 177:16
10:4 12:20,22	sticking 294:22	94:13 95:3,19 96:3	182:3,24 184:11
61:10,15 82:10,16	296:22	96:8,20,23 97:10	184:23 192:8
84:1 86:24 125:8	sticks 296:9	97:12 98:11,14,20	197:13 199:9
138:2,5 139:8,9	stimulate 91:5	99:1 101:14 102:3	200:16 202:10
140:15,16 149:21	stood 148:12	103:21 109:6	206:1,16 215:6
	1	I	

	1	1	1
216:7,18 219:10	substandard 26:7	10:7,23 222:24	system 22:5 156:4
225:23 226:11	88:19 125:7	superseded 259:3	171:12,18 191:4
228:20 229:21	126:16,24 234:18	supersedes 10:7	227:22,22
232:1 233:1,16	263:18 298:3	suppose 10:3 69:17	systems 191:3
236:16 237:6	306:20	supposed 73:7	
238:23 239:10,24	substantial 69:13	Sur 43:10	T
240:14 241:17	Subsueto 285:12	sure 23:16 24:18	T 305:1,1
245:5,23 248:22	succeed 7:1	32:10 36:25 55:17	table 36:3 131:10,17
249:17 256:3	successful 260:16	58:11 67:6 116:15	132:11 140:19
257:9 259:17	274:1 307:8	130:4 145:5 158:6	142:5 148:3,13
275:13 276:6	Sucumbios 31:1,11	160:22 168:11	153:1 166:10,14
286:7 289:15	253:8 282:3	170:3 180:4	166:25 167:6
293:22 294:7	sued 19:24 20:8	190:11,13 195:21	174:1,6,25 184:4
297:20 298:18	sufficient 115:25	230:13 236:5	185:5,9,18 188:8
299:12 300:11	suggest 102:10	248:15 256:13	188:16 193:8
301:2	suggests 122:4	284:19 289:23	194:15 197:19
structures 14:7	suitability 228:17	surface 38:18 59:16	208:25 249:20
studied 260:10	Suite 2:11 308:23	100:11 107:14	255:23 280:25
studies 5:8,25 6:25	sulfate 60:13	109:5 133:2	283:4,5,10 285:8
128:13,14 129:9	sulfur 233:5,19,21	136:14 157:14,15	286:3
129:11 130:1,6,15	233:22	157:22 158:21	tables 235:23 280:7
130:16,21,22	sum 162:7	161:16,19 227:8	281:8
131:7 197:11	Summa 4:11	232:7,24 236:18	take 12:3 29:25
214:12,16,24	summaries 235:24	237:1 294:9,22	36:19 52:11,15,17
study 4:5,24 5:5,15	236:1	298:17	58:19 127:8 128:1
5:20 6:13 112:25	summarize 23:13	surrounding 65:9	152:15 165:3,5
129:19,20 131:3	32:23 48:23	83:19 212:9	180:2 185:14
145:7 203:12	139:20 173:19	survey 197:12	212:15 230:11
204:3	175:11 183:14	198:24,25 199:1	235:14 241:20
studying 8:4	summarized 251:16	199:17 200:15	247:25 281:22
styling 29:8	summarizes 166:14	202:8	286:13 taken 1:19 52:23
subdivisions 31:7	174:6 175:21	surveyed 199:3,7,18	
subjected 275:4	summarizing	202:1	60:1 67:2 72:10 76:25 77:8 84:10
submitted 18:21	183:21 184:4	surveys 200:7	93:5 108:20
subpoena 19:9	240:9 248:3	suspect 118:24	127:12 133:24
301:18 302:6,7,8	summary 129:9	261:17	147:24,24 167:19
302:20 303:11	189:4 249:20	suspicion 183:7	167:21 172:6
304:4	251:11 259:20,21	swear 3:6	179:9 180:8
SUBSCRIBED	261:20 273:12	swim 237:3	194:12 211:21
305:22	280:1 307:15	swimming 76:15	213:17 214:19
subsequent 259:7	summation 201:8	switch 18:11 127:7 286:10	230:16 275:4
266:4	sump 233:6,7,13		284:14 285:23
subsoils 283:13	Superfund 7:13,22	sworn 3:9 305:22	286:21 302:23
substance 9:20	7:23 8:2,12,13,20	308:8	308:10
substances 16:22	9:15,17,22,23,24	synthesis 6:14,23	500.10
	I	1	1

516-608-2400

talk 6:1 21:12	271:23 280:20	35:21 36:22 38:17	153:22 154:10,22
127:20 131:6	283:22 285:5,21	40:6 41:9 42:1,18	157:3 159:7,14
176:8 275:22	290:7 293:15	42:25 43:16 44:3	161:11 163:6
289:2,8	telling 36:20 138:20	44:18,25 45:5 46:6	164:4 165:9
talked 188:5 218:20	tells 103:14 156:15	46:25 48:5,21 50:9	166:13 167:5
228:15 232:16,25	170:24 184:19	53:8 54:22 55:16	168:8,15 169:6,14
240:9 245:1 286:2	244:24	56:7,17 57:3,10	170:1 171:8
289:11 291:11	temporary 62:2,4	58:6 59:11,23 60:6	172:17 174:5,24
talking 21:10 75:10	84:3,16 85:1,9	61:3,13 62:18	175:20 177:23
100:15 187:18	92:23	63:22,22 64:15	178:14 179:8
209:1 227:11,14	ten 118:14 144:25	65:4,19 66:21	180:17,18,22
227:19 228:22,23	146:6,14	67:23 68:11,23	181:9,23 182:11
228:23 231:3	tend 148:6 149:9	70:4,10 71:14,21	183:11 184:3,17
289:14	164:13	72:6,20 74:12 75:8	189:23 190:9
talks 49:18	tended 138:11 149:2	75:17 76:4 77:15	191:15 195:3
tank 61:25 92:16,17	149:4 168:21	78:10,16 79:6 80:3	196:14 197:23
92:19,19 240:4	tendered 303:18	80:14 81:21 82:19	198:9,21 199:15
tanks 85:4,5,8,9,12	tends 18:7 138:6	83:3,10 84:5,20	200:4 201:3,13
85:13,15,20 89:9	term 11:10 31:24	85:7,23 86:7,19	202:16,20 203:24
89:10,12,12 91:21	32:9 192:12 248:6	87:1 88:12 89:1	204:18 205:15
91:23 173:12	Terminator 282:19	90:19 91:2,14	206:7 212:12
tape 93:2 179:25	terms 49:5 51:24	93:20 94:5,16 95:7	217:10 218:8
180:1 292:12	139:21 144:23	95:22 96:10,18	219:2,3 221:6
tasted 271:13,14	174:7,20 189:14	97:14 99:4,21	222:6 225:9 226:5
TCLP 178:17 272:1	218:24 263:3	100:19 101:3,21	228:10 229:12,22
273:2,25 274:20	281:7	102:6,16 103:11	230:4 231:13
274:22,22 275:2	territory 32:15	104:16 107:6,24	234:11 237:18
275:12 276:1,10	test 178:10,17,18	108:25 109:17	239:20 240:20
276:14 307:10	272:1 273:2,25	110:17 111:2,18	241:9 242:8
TCLPs 274:5	274:5,8,20,22,23	112:9 114:25	243:17 244:5
team 128:20	275:2,12,17 276:1	115:14 117:10	249:9 250:5,15
technical 23:11 36:4	276:10,12,14	118:2 119:24	251:3 260:25
tell 17:6 29:20 30:13	307:7,10	120:17 122:25	262:10 264:17
32:21 41:21 49:13	tested 47:23 153:16	123:3 124:11,19	269:1,22 270:3
53:5 54:18,19 58:3	237:9	125:10,16 126:8	272:20 274:13
64:11 72:17 78:4	testified 3:10 180:24	126:19 131:14	276:17 290:3,3
89:23,25 99:18	217:12 221:2,12	132:21 134:9	293:10 296:2
100:4 105:11	259:12 262:4	135:16 137:21	298:8 299:1,19
116:23 117:7	272:12 284:11	138:4,23 140:8	300:19 305:4,5
134:23 138:24	testify 308:8	141:3,19 142:14	testing 57:14 151:18
157:1 158:14,23	testimony 18:19,19	143:14 144:1,21	152:5 228:1,3,18
159:3 161:9	18:22 20:25 22:6	145:15 146:3,17	237:21 238:1
181:17 203:5	24:16 25:6 30:16	147:6 148:2,19	tests 140:3 152:4
209:6,11,12 213:5	31:5,18 32:8 33:3	149:18 150:15,20	153:2 154:5
243:13 270:21	33:22 34:19 35:10	151:4 152:8 153:8	Texaco 25:20,24
	1		

VERITEXT REPORTING COMPANY

212-267-6868

www.veritext.com

26:6 30:11,23 32:2	195:14 199:12	205:21	152:1 160:2,21
32:12,16,25 33:10	202:12,24 204:25	text 281:8	174:25,25 179:17
33:11,13,16 34:6,9	205:1,11 207:21	thank 3:16 4:16	179:21 188:3,3
34:14,25 35:14,17	213:19,25 214:6	27:18 50:18 52:20	190:5,10 193:7
35:24 36:8 37:2,4	217:1,5,14 218:10	67:16 162:12,17	194:17,20 195:12
40:1,3,8,21,24	218:14 219:5	212:20 221:24	198:11 204:24,25
42:7 48:25 53:11	225:5,15 226:1	255:6 270:19	209:14 211:11
53:14 55:7,14,21	227:12 229:8	279:17 286:10	212:14 213:9
56:8,23 59:21	230:7 231:22	301:11,12 302:18	214:4 216:13
61:10 62:12,14	233:14 234:8	304:14	217:12,15 220:1
63:23,25 64:6,12	238:1,19 239:22	thanks 48:17 89:7,7	221:12,25 222:2,7
64:17 65:17,24	240:10,15 241:10	89:19 155:14	222:19 223:3,5,16
66:18 67:9 72:23	243:6,6 247:4	212:23	223:17,18 235:17
82:11,16,21 83:5	251:19,22 255:14	theirs 248:16,23	235:17 239:12
85:20 86:14,21	264:8 269:19	thereof 210:23	240:21 245:16
88:5,17,18 89:12	272:1 273:3,23	thesis 5:2	246:7 252:14,23
91:16,19 93:10	274:21 276:9	thing 223:4 267:13	254:22 255:25
94:6 100:22	284:8 293:12	268:15 286:17	258:8 261:1,8,14
105:11,16 107:17	300:1,13,24	290:10	265:1,13,20,24
108:2,5,10 110:20	Texaco's 21:20	things 12:7 45:17	266:8,20,24,25
113:11,24 114:9	23:18 25:3,13	57:6 61:21 63:8	267:10 277:3
114:23 115:2,8	26:14 27:1 32:20	79:13 87:8,10 89:9	281:14 283:6,17
118:17 119:8,13	32:23 41:12 42:22	125:18 233:15	288:6 291:12,25
121:3 122:6,23	43:3 49:4 50:23	234:15 242:20	293:4 296:23
123:5,9 125:19,20	56:20 59:24 64:4	254:13 261:6	302:14 303:8,23
126:22 130:25	75:3 85:19,25 94:2	264:22 281:9	thinking 14:12
131:18,19 138:19	114:15,16 118:16	291:11 299:7	third 131:2 163:1
155:4,21 159:20	119:7,7 123:8	think 5:23 8:9 11:21	197:14 233:3
160:18 169:11,22	169:18 170:12	15:5,6,20 20:15	244:10 278:5
169:24 170:4,4,8	177:5 185:20	29:4 30:7,15 45:20	thought 98:24
170:15,23 171:1,9	186:7 204:15	49:21 50:14 51:9	144:23 151:24
172:1,9,13,14,20	208:21 212:3,9	53:12 55:20 58:10	187:24 205:1
172:24 173:2,8,13	234:18 235:25	62:19,22 71:6 73:2	206:9 212:2,8
173:17,18,22,22	242:6,23 255:19	75:5 77:4 89:8	261:6
173:24,24 174:15	256:7 276:24 289:13 291:12,15	91:9,15 92:4 93:1	thoughts 206:14 264:21
174:15 175:2,9,14 176:7 177:19	,	96:15 99:13,23 102:17,17 104:20	thousand 113:6
179:1,14 181:6,13	298:2,14,24 307:10	102:17,17 104:20	139:24 140:24
181:13 182:13	Texaco-Chevron	116:14 117:13	141:23 142:8
183:17,20 184:9	186:10	120:5 121:11	141.23 142.8
184:14,20 185:13	Texaco-Petroecua	120.3 121.11 123:12 124:24	145.18,20 144.9
187:2 189:14,21	194:13	125:11 126:11,23	140.0,21,25
191:9 192:6 194:2	Texas 32:3,5	127:17,19 140:9	148:8,15 153:11
194:10,11,11,16	Texpet 184:19 185:5	141:6 144:8 150:2	153:14 154:6
194:17 195:1,10	185:16 188:13	150:16,17 151:23	160:14 162:2
17 111 175.1,10	102.10 100.12	150.10,17 151.25	100.11102.2

	1		
174:9 175:6	140:16 141:4	298:4 303:7,14	96:21 102:23
178:19 179:20	145:22 164:1	Today's 3:3	104:19 117:14
184:7 222:2,10	165:15 170:12	told 16:2 30:7 106:6	178:17 228:16
275:11 284:17,20	180:20 182:15	106:12,15 110:12	273:24
284:22	184:25 202:12	196:7 221:10	toxicologist 104:21
threat 96:7 298:21	204:13,16 212:16	222:1 261:14	toxicology 5:9,12,13
three 20:21 49:21	217:8 234:6,20	301:3	5:14,19,24 299:6
74:14 91:23 93:8	240:17 242:12,22	toluene 110:22,24	TPH 107:18,25
100:10 113:2,5	244:16,24 245:11	115:11,12,15,24	108:7,13,18,23
117:23 137:3,5	245:16 247:14	115:25 116:4,25	109:2,5,15 110:1
151:17 155:24	249:5 250:1,7,11	tool 73:23 74:2	137:8,9,10,16,25
162:4,9,10,10,13	250:24 258:12,24	top 28:25 45:11	138:11,12,16,21
162:18,20 193:1	259:1,10,16	50:25 51:24 74:19	139:6,21,25 140:1
194:15,18,24	260:22 261:9	80:6 107:17	140:5,11,16,17,21
195:5 196:9	263:20 264:19	157:21 158:11	140:23 141:5,15
234:23 253:14,17	265:2 272:18,22	161:23 185:17	141:21,24 142:3,6
255:24 257:4,12	275:17 276:13	230:9 231:5 238:3	142:8,11,16,17,25
258:6 260:10	277:18 278:1,8,18	269:15 275:15	143:3,8,17 144:6
262:6 282:10	279:13 290:17	293:17 294:13	144:19,24 147:3,9
288:24	292:10 296:16	topic 18:16 234:14	151:2,8 152:16,20
threshold 141:1	298:20 299:14,16	topics 88:3	153:4,12,14,19
143:11 154:8	299:24 300:1	tops 68:3	154:6 156:11,24
thumb 254:2 265:5	301:1,3,4,11,20,21	torn-up 66:15	157:4,8,11,17,25
tied 91:25 204:15	302:15 303:18	total 107:19 131:20	158:2 159:2,17
time 10:2 12:1 19:13	304:9 308:10	132:6 134:5 135:1	160:10,24 161:24
25:25 26:9,21 27:2	timeline 11:18	136:24,25 137:10	161:25 162:2,24
29:1 32:24 34:21	139:4	137:11 139:13	162:25 163:2,4,20
40:4 41:1,7,11	times 137:3,5 145:1	142:1 145:9 177:8	163:23 166:14,23
45:2 46:11,13	146:6,14,15	182:14 185:12	166:24 167:8,15
47:12,17,18 52:14	268:11 294:3	245:7 276:10	169:2 173:16,20
61:10 65:16 67:8	title 7:19 94:1	283:17	174:8 178:16,23
69:25 74:18 77:1,8	107:18 131:10	totaled 133:8	179:1 181:21
78:25 79:24 82:11	183:7 185:4,5	totally 176:12	182:1,23 183:6,14
82:16,20 84:18	255:7 257:5	touch 39:20 192:3	183:15 184:4,6,14
86:5,10,13,17	263:16 264:1	touched 207:11	184:21,21 185:6
94:24 95:16 98:18	277:9 283:10	tour 288:12,15	188:13 193:13,15
99:10 101:6,7	285:7 287:20	town 39:1 43:19	193:17,20,24
102:21 103:18,25	titled 136:12 230:10	towns 38:24 77:21	194:16,25 195:6,9
104:3,12 108:8,20	306:19 307:7,10	toxic 45:17 101:14	195:13 218:24
109:2 112:10,25	307:13,15	101:15 102:3,9,13	219:4,7 221:1
113:11 119:21	today 19:8 28:13	102:20,21 103:15	222:3,15 275:7,12
120:19 123:13	98:9 206:20	104:6 111:13,14	278:12 283:13,15
125:1,3,8 126:1,17	228:15 258:18	111:15 115:18	283:17 284:1
126:22 129:2	262:4,13 264:14	116:1,21 299:5	285:25
138:18 139:7	265:3 291:12	toxicity 45:19,21	TPH-based 139:10
		I	Ι

212-267-6868

516-608-2400

		•	
TPM 153:3	truth 308:8	typewritten 308:12	65:15 87:11,19
track 49:23 71:9	truthfully 301:9,9	typical 51:8 52:1	93:10,12,14 98:16
77:1,2 79:8	try 12:2 77:1,2	53:10,13 54:15	109:4 111:21,24
trade 27:14	103:12	56:10 68:14 69:1	112:24 116:11
training 45:25 81:16	trying 6:23 12:3	75:3 140:15 148:4	124:21 125:5
94:10 98:23 134:4	30:16 38:1 80:4,5	295:25 296:3	133:12 137:23
225:3	89:16 98:17	typically 10:23 11:3	141:4,9 146:20
Trans 43:20	102:10 103:3	12:10 14:16,20	171:24 183:1
transcript 305:3	134:24 150:18	16:13 26:10 40:22	197:24 211:3,4
308:13	151:6 152:13	61:15 68:17 80:17	213:19 214:25
translate 283:6	165:11 182:12	90:4 120:24	219:16 220:14
translation 221:15	294:23	123:15 124:24	221:13 222:9
253:21	turn 32:19 205:24	134:14 148:23	233:11 242:4,21
translations 253:17	206:25 210:21		243:3,20 246:21
transport 60:17	215:8 216:19	U	247:2,9,17 249:14
travel 39:16	217:17 230:8	UG 112:13	256:20 276:13
treated 85:13	259:18 268:15	ultimate 23:14	289:1,5,14
107:12 228:13	285:6	Um-hum 30:10	understood 40:3
237:9	two 7:14,15 77:5,9	114:5 123:18	86:23 154:7
treatment 62:8	80:15 89:9 105:13	unabated 299:17	206:18 245:15
72:11	117:22 118:12	300:3	301:6
Trevor 2:22	128:8,10 129:14	unacceptable 61:24	undertook 175:14
trial 23:22,22	130:5,9 133:14	uncovered 55:2	undisturbed 242:2
128:15,17 129:8	136:4 137:5 140:4	underground 42:4	242:23 243:3
131:11,16,21,22	140:23 141:16	89:22 90:5 92:21	unfortunately 265:2
140:20 141:14	142:3,7 143:17,18	100:7,10 172:24	unique 42:5
142:19,23 143:1	143:22 146:22	underlining 235:14	United 1:1 61:9,15
156:25 175:2	148:11,20,23,25	235:15	82:10,15 84:1
185:11 207:2,13	161:12,18 162:1	underlying 289:12	86:24 125:7 138:2
269:18,20 270:7	173:20 174:2	underneath 66:13	138:5 149:20
278:6	178:15 184:10	78:12 83:13	197:17,20 271:2
triangle 155:17	197:10 200:2,23	156:14 283:1	299:14,25 300:17
tried 28:17,18	200:24 201:21,24	understand 19:6	universal 138:8
177:18 239:13	202:1,9 209:25	21:6,11 23:25 38:1	University 4:1,20,25
trigger 160:2,7	230:23 248:15	65:13 125:2	5:10 6:4
161:1 177:18	255:16 274:19	165:13 166:3	unlabeled 53:3
178:4	282:11 284:18	189:14 196:24	54:18 72:16
trip 268:21 288:21	twofold 147:8	210:24 244:12,16	unlined 49:11 50:3
trips 288:19,22	two-thirds 207:5	246:10 302:12	unquote 246:9
true 51:14 54:10	TX 2:11	303:14,15 304:2	247:22 248:6
58:22 98:24	type 10:17,20 51:15	understanding	unrecovered 59:1,4
106:19 155:8	61:23,23 74:22	22:10 28:12 31:19	unremediated
258:14 259:9,15	126:5,11 227:5	32:14,18 33:16	299:17 300:3
261:5 293:23	263:7	34:21,24 40:20	untouched 177:13
305:4 308:13	types 263:10	41:5 55:12 65:14	untreated 229:15
	I		l

	1		
untrue 261:7	valid 152:4,14	269:11 270:24	258:23 291:1
unusual 290:14	validity 134:16	271:16 297:7	waste 8:19 10:23
upper 39:9 89:18	value 193:24 196:18	visited 39:21 53:18	11:11 14:5 35:3,8
90:1 137:24	197:15,20,25	54:12,13 57:25	53:11 56:23 61:18
140:25 141:6	198:1,5,7 221:18	66:3,8 98:9 268:7	61:23 62:4,7,23
143:11 155:12	285:18,21	268:11,21 270:24	64:18,19 65:6 72:9
156:22	values 114:22 200:2	271:4 306:23	72:13 74:15 75:3
upstream 77:3	various 30:1 72:23	307:5	82:20 83:14,18
usage 82:5,15	87:8,12 108:2	visiting 53:21 76:7	84:10,12 85:10,21
use 64:4 65:15 66:18	188:18	visits 271:13	86:12,16 88:2,15
67:9 73:22 74:1	vary 138:7	visual 218:12	88:24 93:17 119:9
79:23 80:24 84:16	vegetation 51:25	visually 51:11	155:20,24 165:17
86:8,10,11 88:7	293:18	218:18	173:12 227:5
89:9,12,12 91:12	vehicle 232:6,22	voluntarily 302:4,17	228:12,16,22,23
115:11 126:23	vented 41:1		228:24 229:4
152:11 186:22,23	venting 41:13	W	240:12 245:8,8,20
196:8 198:1	verbatim 273:8	W 2:4	245:21 255:22
220:25 221:9	277:7	waives 302:8	256:8 260:11
237:4 265:16	version 235:5,18,20	walk 29:17 106:11	263:19 274:10
273:23 274:5	306:18	123:22 131:8	275:18 276:1
USEPA 197:16,24	versus 83:5 154:1	walked 294:20	298:3,24 306:20
uses 58:25	173:23 183:18	walking 123:15,19	wasted 302:15
usually 215:13	204:11 205:1	123:24 124:3,25	wastes 49:11 50:3
U.S 7:11 11:21	vertebrates 96:23	125:6 295:13	72:8 86:1 264:7
12:12,13 15:11,14	vertical 159:10	want 18:16 27:14	wastewater 227:11
17:3 26:11 82:6,23	VESELKA 2:9	28:6 82:8 111:10	227:25 228:2,3
82:24 83:5 84:7,14	vfitt@gibsondun	119:1 121:17,20	236:6 237:21
85:2 87:9 106:24	2:6	122:13 123:22	water 10:9 14:6
126:16,21 149:25	vice 13:22	128:21 135:7	38:18 40:11,16
223:16 264:6	vicinity 260:14,17	180:21 186:25	41:24 42:2,2,3,6,8
266:2,12 293:3,4	video 32:1 70:22	189:8 191:17	42:9,11,16 43:4,8
300:10,25	71:5,7 286:12	211:11 293:19	46:18,19,21 47:2,7
	Videographer 2:22	wanted 6:13 175:21	47:8,12,23 48:1,6
<u> </u>	3:3 52:21,25 66:25	176:11 289:2,8	70:12,18 74:16,16
vague 27:8 32:17	67:4 74:4 93:3,7	291:2	74:17,19 75:5,15
39:23 45:5 46:12	127:10,14 179:24	war 282:18	75:23,25 76:5,18
54:1 58:2 66:6	180:6,10 230:14	wash 227:7,8 228:24	76:18 77:13,18,18
69:15 74:25 76:20	230:17 286:19,22	229:9,10,15 237:3	77:24 80:25 81:2,7
146:16 187:10	304:17	washes 106:8	81:11,18 83:18
189:12 190:9	videotaped 1:5,18	washing 232:7,23	84:9 89:21 90:2,2
210:12 212:12	violation 117:2	Washington 2:4	90:3,6,8,13,17
216:12 224:11	Virginia 2:3	wasn't 9:16 22:7	91:6 92:5,18,20,24
242:13 268:17	visible 269:12	47:16,20 73:7	93:22,22 94:1,3,8
274:3 291:21	visit 50:2 53:16,19	102:10 128:23	95:2,18 96:3,12,14
299:19	267:24 268:9	234:15 239:6	96:21,22,25 97:3
	I	I	I

97:11,18,21 98:8	waters 98:25	140:2,2 148:4,5	286:11 291:11
98:10,14,19 99:7	waterway 106:11	149:4 154:25	whatsoever 215:19
99:11,17,23,25	waterways 236:6	159:21,23 171:10	whereof 308:18
100:4,8,12,15,17	water-soluble 111:6	171:20 173:7,8,9	wider 166:4,5
101:1,6,7,11,13,18	way 6:24 22:18 26:6	179:5 181:6 190:6	widespread 250:10
101:23,25 102:2	27:21 56:22 59:17	199:12 201:11	250:17
102:19,19,25	61:19 68:1 70:2	202:3,5 219:17,22	wildlife 11:22 12:12
103:5,13,14,18,19	72:13 75:24 76:1	220:2,3 255:14,16	12:13 15:15 16:1
103:23 104:6,22	77:19 80:15,23	255:21 300:14,16	17:3 220:22
104:24 105:16	81:3 88:18 90:24	went 7:5 54:2,3	willing 19:17 304:1
106:5,6,25 107:2,9	107:10 113:17	57:12 93:13 131:4	304:3
107:12,17,20	125:25 142:16	177:13 267:25	Wisconsin 4:21,25
108:1,8,19 109:5	147:8 150:16	268:9 273:20	5:4,11 8:24 9:4,5,8
109:15 110:1,14	152:14 157:7	weren't 103:6	15:22
110:14,20,25	160:11 163:17	158:12 261:9	witness 3:7 11:5
111:7,8,11,12	164:9,15 168:12	271:14	19:2,18,20 20:2,3
112:7,11,19 113:1	175:11 183:15,22	west 156:15	20:8 21:1,2,3 22:3
113:5,8,11,12,17	191:6 198:4 207:6	wetland 68:20 71:10	22:7 301:23,25
114:12 115:4,16	220:14 231:10,22	296:17	303:18,19 308:18
115:17,21 116:6,7	236:1 238:7	wetlands 9:10	witnesses 21:23 22:1
116:9,19 117:16	239:13 240:12	136:15 260:13	women 203:2,3,5,21
117:18,18 133:2	241:10 250:16	we'll 18:22 22:24	204:1,2,6,10,14
135:21 136:12,13	268:8 281:1	we're 3:4 10:10 11:3	205:13
136:14,16,17	285:13 300:24	21:10,11 28:13	wonder 53:4
169:3 172:23	304:5	52:25 66:25 88:8	wondering 27:21
213:2,12 215:11	ways 49:4 56:19 69:22 72:22 80:15	100:15 111:7	wood 294:20
215:24 218:21,23	88:15 123:13	114:3 127:6,15,19 136:17,20 146:5	WOODS0003436 307:6
219:5,6 224:24 225:21 226:2,9	124:23 261:14	147:10 157:8,16	Woodward-Clyde
227:6,7,7,22 229:9	week 303:7	158:7 165:10	129:18 131:4
232:6,19 236:6,9	weight 150:6	173:16 180:6,19	129.18 131.4
236:13,14,14,15	wellhead 54:4	185:14 190:15	187:20 188:11
236:20 237:5	wells 26:25 32:25	212:21,22 227:11	189:11 190:25
238:9,16,19 239:5	33:6,13,17,18 35:4	228:22,23 230:14	306:13
239:8,16,22	35:7,17,23 36:7,20	235:3 252:11	Woodward-Clyde's
240:24 241:12,13	37:5,17 38:2,3,9	286:19 290:20	191:3
243:9,10 246:24	39:5 40:9,10,21	293:14 295:8,12	word 10:14 100:4
247:5,11 265:7,10	42:3 43:18 49:12	304:17	126:23 210:13
275:7,7,23,24,25	50:4 57:12 63:5,7	we've 15:5,6,10,11	235:3,4,7 236:7
276:3,3 286:17	63:7 77:23 80:24	19:13 27:19 30:8	248:25
292:2 295:13	80:25 90:4 91:7	75:10 93:1 180:15	worded 244:7
296:10,15,16,23	94:8 99:25 100:1	187:7 199:22,25	wording 141:7
296:25 297:4,16	113:22,24 114:13	206:20 212:18	words 4:9 21:4
297:16 298:17	114:23 131:18,24	218:20 228:15	86:15 108:22
299:4,8	132:7 139:23	245:1 264:9 280:7	170:10 175:8

	I	I	
276:3 283:1	world 15:10 26:12	40:17 109:7,13	160:14,24 161:5
work 5:25 6:2,2,16	34:25	yellowish 156:7	179:20 181:18
6:21 7:9 9:18 10:5	worst 222:25	Yep 137:5 286:18	182:1
10:17,20 11:8	wouldn't 159:1	yield 134:5	10/15/09 306:22
12:15,18 13:5 14:2	235:19 293:19	York 1:2,21 4:4	10/8/09 306:23
14:3,9,14,18,25	write 247:21 266:19	288:11	10:07 52:22,23
15:5,7,10,11,15	writing 9:25 88:20		10:22 52:24,25
16:3,12,15,16,20	128:23 129:4	Z	10:39 67:1,2
17:7 18:12,12	244:21 246:5,6,7	ZEICHNER 2:16	10:42 67:3,5
22:20 23:1,7,11,15	261:4,6 277:13	zero 148:15 157:14	100 139:25 140:6,9
23:16 24:6,19 25:2	written 203:10	zoom 36:24	140:14,17,21
25:4,13,14 27:3	257:1,1,10 258:4	<u></u>	141:21 142:6
43:24 47:12 55:12	261:2,12 263:21	\$	146:15,15 148:13
60:24 65:16 74:24	266:21 273:8	\$8 198:12	174:8 184:6
81:16 82:7 85:18	wrong 111:22	0	100,000 143:23
88:4 94:11 97:7	117:22 203:4		204:1
123:5 129:25	wrote 220:13 246:3	0.005 112:12	1050 2:4
130:17 144:17	246:15 266:13,21	0.325 108:22 109:2	1069438 208:16
145:16 164:22	267:6,8 273:21	109:9 166:24	11 1:3 132:5 272:23
187:5,6,13 194:1	277:8	167:9,16 06830 2:18	272:25 307:10
209:4 210:16		00830 2:18	11A 255:10
213:15 225:3	X	1	11/11/08 307:4
228:6 230:1 234:6	X 109:8 110:8 157:8	<u>1</u> 27:12,13 144:25	11/12/07 306:18
241:3 243:14	158:25 198:4	145:3 167:15	11/7/08 306:16
244:2 254:19	283:15 306:1	185:5 190:22	11:17 93:4,5
262:3 272:15	xylene 116:25	194:21 202:7	11:20 93:6,8
273:4,5,20 274:1	xylenes 110:22,25	210:21 255:19,23	12 141:14 276:19,21
286:25 287:17	116:16	255:25 273:11	307:13
298:1 299:16	Y	275:15 306:11	12th 308:19
300:2 304:1,10		1,000 137:16,24	12,000 283:22,22,23
worked 6:6,18,19	y 108:16,17 130:3	141:5 143:7	12:07 127:11,12
7:12 8:10,21,24	157:11 283:15,15	146:14 147:3	120,000 283:22
9:5 10:22 11:19	yeah 4:8 13:18	152:19 153:4,18	126 245:7,19
12:21 15:14,21,24	27:17 28:5,8,17	159:10,16 161:5	13 253:15 279:18,20
15:25 18:5 40:3	37:16,24 51:17 89:18 92:18 106:3	220:25 221:8,9	279:22 307:15
189:1 237:15,22		275:6 276:9	14 281:19,21 307:17
278:2	134:24 162:14,17 196:16,24 208:18	278:11 283:21	1459 224:4,7
workers 120:1	210:14 216:13	284:11	15th 302:21 304:4,7
219:25 227:2	246:15 263:11	1,206 137:2	150,000 159:4
working 232:11	year 3:25 35:23 36:6	1:07 127:13,15	158 244:11 245:4
238:12 242:22	years 7:14,15 12:22	10 201:22 202:4	16 177:7,12 182:14
249:5 277:18	100:24 262:6	270:11 271:20,22	183:17,18 185:12
290:12 298:20	293:6	307:7	16th 308:23
workover 238:8	yellow 37:14 39:1	10,000 144:19,24	163 244:11,22 245:2
works 22:4 282:13	JUIUW J1.14 J7.1	145:2,10,24	173 207:7,8
	Ι		

	1		1
18 94:7,12 95:17	2,500 113:8	281 307:17	285:1,4,5
98:13	2.4 220:6		5-1 214:10
1801 1:21 302:22	2:21 180:7,8	3	5-10 226:13,13
186 306:13	2:32 180:9,11	3 207:16,18 208:10	231:4
1900s 26:8 84:8	20 33:18 201:19	211:8 266:2,5	5-11 229:24 232:2
1940s 85:2	293:6 305:23	306:3,14	5-14 233:3,3
1962 87:4 88:9,14	20s 106:25	3:46 230:15,16	5-15 233:24
91:16 93:15	200,000 159:2	3:58 230:16,18	5-4 214:10
1967 33:19 93:11	162:25	30 293:6	5.10 227:4
1971 224:5,8	2000 306:13	300,000 161:24	5:28 286:20,21
1972 95:18 99:2	2003 131:23	163:1	5:34 286:21,23
113:24 300:15	20036-5306 2:4	34 131:25	5:57 304:18,19
1973 36:6	2006 131:24	35 2:17	50 181:25 245:9
1974 217:20	2007 23:2 258:4	350 33:17	303:6
1975 269:3	263:22	356 33:5 171:24	500 158:2 200:23,23
1976 214:13,15	2008 270:24	173:10	57 194:20
269:3	2009 267:25	3718 1:3	59 167:8
1986 155:16	2010 28:1 263:23	374 214:15	
1987 4:23	2011 1:6,20 3:4	38 154:20 155:1	6
1990 33:19 34:4.5	308:19	160:17 165:4	6 252:3,5 282:23,25
95:18 99:2 100:22	2015 308:20	268:20 290:22,23	306:18 307:17
100:24 113:25	202.530.9594 2:5		6-10 215:9
114:11 169:19,20	202.622.0900 2:18	4	6-13 243:21 244:10
173:23,25 205:9	202.955.8500 2:5	4 208:6,7,11 211:9	244:10
228:4 229:25	203.862.9889 2:19	266:11 267:6,8,9	6-15 245:6,7
233:4 234:1,3,7	207 306:14	267:12 268:15,18	6-20 245:25
293:14 300:15	209 306:16	280:24 293:12,25	6-24 247:21 249:18
1990s 115:2 129:23	21 308:20	295:9,20	6-25 216:20
175:15 176:2	216 308:23	4.2 224:3	6-26 216:20
177:6 183:20	22 33:6	4/7/10 306:11	6-33 217:18
272:2 276:24	2268146 67:14	400 222:25	6-5 241:19,19
1992 34:10,15 108:4	2268197 67:14	400,000 162:23	6.12 243:5
108:9 203:11	2300 2:11	41 247:21 248:5	6.6 249:20
226:17	25 170:8	45 132:9 133:13	60 8:11 32:4 70:22
1993 219:13	250 200:22,23	291:8	70:23 286:12,25
1994 112:23 114:4,7	201:19	5	287:7,7,17 289:17
1998 11:19 12:24	252 306:18		290:8 297:24
1999 130:5	262 306:19	5 112:11 157:15,15	61 58:10,12
	267 306:22	209:20,22,23	64,000 133:9,11,13
2	27 224:4 306:11	211:9 252:7,9,11	134:4 135:4,10
2 148:13 186:13,15	270 307:4	259:19,19 306:16	650 308:23
188:17 189:5	271 307:7	5,000 160:10 161:5	
194:21 202:6,8	272 307:10	178:22 179:1,4,18	7
252:21 275:15	276 307:13	185:6 188:14	7 28:1 148:12
280:25 306:13	279 307:15	195:1,7,9 284:10	262:19,21 267:19
L			

270:15 306:19		
70s 49:21		
700 2:10		
713.221.2320 2:12		
713.221.2330 2:12		
76 245:10		
77002 2:11		
8		
8 267:16,18 270:16		
306:22		
8th 267:25		
8,400 286:5		
80 246:3,11,19,20		
246:22		
80s 49:22		
80202 308:23		
80202 308.23 81 140:2,20		
84 177:10,13		
041/7.10,15		
9		
9 1:6,20 180:17,19		
231:14 270:17,18		
270:20,21 302:21		
307:4		
9th 3:4		
9:05 1:20 3:4		
90 7:16		
90s 49:22		
916 49:11,17,25		
92 7:16 141:20		
93 135:1 142:1,18		
94 194:21,21 255:10 97 142:7		
97 142:7 98 140:22		
98 140:22 99 142:5		
99 142:5		