

IN THE MATTER OF AN ARBITRATION BEFORE A TRIBUNAL
CONSTITUTED
IN ACCORDANCE WITH THE TREATY BETWEEN THE U.S.A. AND THE
REPUBLIC OF ECUADOR CONCERNING THE ENCOURAGEMENT AND
RECIPROCAL PROTECTION OF INVESTMENT, SIGNED AUGUST 27, 1993
(THE "TREATY")

and

THE UNCITRAL ARBITRATION RULES 1976

- - - - -X
In the Matter of Arbitration :
Between: :
CHEVRON CORPORATION (U.S.A.), :
TEXACO PETROLEUM COMPANY (U.S.A.), :
Claimants, : PCA Case No.
and : 2009-23
THE REPUBLIC OF ECUADOR, :
Respondent. :
- - - - -X Volume 6

TRACK 2 HEARING
ESPECIALLY CONFIDENTIAL:
NOT TO BE PUBLICLY DISCLOSED BY PROCEDURAL ORDER NO. 29

Tuesday, April 28, 2015

The World Bank
700 18th Street, N.W.
J Building
Conference Room JB1-080
Washington, D.C. 20003

The Hearing in the above-entitled matter convened
at 9:30 a.m. before:

- MR. V.V. VEEDER, Q.C., President
- DR. HORACIO GRIGERA NAÓN, Arbitrator
- PROFESSOR VAUGHAN LOWE, Q.C., Arbitrator

Registry, Permanent Court of Arbitration:

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MS. NAYA PESSOA

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MS. KATHRYN OWEN

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1 PROCEEDINGS
2 PRESIDENT VEEDER: Let's start Day 6 of this
3 Hearing.
4 Unless there are matters by way of housekeeping,
5 let's continue with the cross-examination of this Witness.
6 MR. WHITE: Thank you, Mr. Veeder.
7 J. CHRISTOPHER RASICH, RESPONDENT'S WITNESS, RESUMED
8 CONTINUED CROSS-EXAMINATION
9 BY MR. WHITE:
10 Q. I want to take you back to the 105 documents that
11 Mr. Lynch testified about in relation to drafting
12 non-Chevron orders for Mr. Zambrano. Do you know what I'm
13 talking about?
14 A. Yes.
15 Q. Now, and I think we--I want to just go over this
16 quickly because we talked about it a little bit yesterday.
17 Your opinion is that because the user name on those--the
18 user name on the computer that was used to create those
19 documents originally was dot, and Mr. Guerra's computer
20 user name when it was imaged was Estación, that you say
21 those Orders weren't prepared on Mr. Guerra's computer; is
22 that right?
23 A. I don't think I said they weren't prepared. I
24 said they weren't originally created.
25 Q. Okay. And I think you said yesterday, but I want

C O N T E N T S

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WITNESSES:

J. CHRISTOPHER RASICH

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JOHN A. CONNOR

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Cross-examination by Mr. Ewing 1328

09:30 1 to make sure I understood you correctly, that there may
2 have been a document that was created on the computer with
3 the user name dot that was used as a template for
4 Orders--for those drafts, and those drafts could have been
5 prepared on Mr. Guerra's computer from the original
6 template that came from dot; is that right?
7 A. That's possible.
8 Q. Okay. And you would agree, right, that in your
9 experience historic files like these templates are often
10 used for future files, and the reason to do that is so that
11 formatting and templating will remain the same; is that
12 right?
13 A. That's possible. I've seen documents used as
14 templates before.
15 Q. Well, let's go to your 2014 Report, November 2014
16 Report; if you still have the binder that I gave you
17 yesterday, that's behind Tab 3. I do.
18 I want to take you back to Paragraph 60, which is
19 on Page 15.
20 And in this paragraph, you're talking about a
21 document that found its way onto Mr. Zambrano's computer,
22 and you're suggesting that that may have been a template
23 document that Mr. Zambrano was using to create new
24 documents; right?
25 A. It's possible, yes.

09:32 1 Q. And then I want to focus your attention on the
2 last sentence. You say: "In my experience, historic files
3 like this are often used as templates for future files so
4 that formatting boilerplate language remains the same."
5 That's your opinion; right?
6 A. Yes, that's possible, yes.
7 Q. Okay. And you say "often." Right?
8 A. Yes.
9 Q. Okay. And that may very well be what happened
10 with Mr. Guerra getting the template that had dot and then
11 using it to prepare Draft Orders.
12 A. That's possible. I don't know one way or the
13 other.
14 Q. Now, let's look at if you still have Mr. Lynch's
15 slides from yesterday or if you can follow on the screen.
16 A. I'll follow on the screen.
17 Q. Okay. I want to take you to Slide 3 from
18 Mr. Lynch's presentation. Slide 3.
19 Now, you were here when Mr. Lynch presented this
20 slide; right?
21 A. I was.
22 Q. And you've offered no analysis or opinion to
23 contradict what Mr. Lynch has said concerning the dates
24 these documents were last saved on Mr. Guerra's computer
25 versus the dates on which the corresponding Orders were

09:33 1 issued by Mr. Zambrano; right?
2 A. I don't believe there is any evidence that these
3 documents were last saved on Mr. Guerra's computer.
4 Q. The user name--this is the 105--
5 A. Oh, the 105, I apologize. I apologize. I see,
6 okay.
7 Q. We have a smaller number of pictures on here?
8 A. Right.
9 Q. But so those, you haven't offered any opinion or
10 analysis to contradict Mr. Lynch's testimony concerning the
11 Last Saved Dates on Mr. Guerra's computer of these
12 documents versus the dates when these corresponding Orders
13 were issued by Mr. Zambrano; right?
14 A. No.
15 Q. And then if we go on to Slide 5 of Mr. Lynch's
16 presentation, this is where Mr. Lynch described files being
17 saved to thumb drives, Mr. Guerra's shipping documents by
18 TAME, and then the Orders or the documents being created on
19 Mr. Zambrano's computers--computer--and then the Orders
20 being issued.
21 You haven't offered any opinion or analysis to
22 contradict that testimony by Mr. Lynch; right?
23 A. No.
24 Q. No, you haven't offered any opinion or analysis to
25 contradict Mr. Lynch?

09:34 1 A. Correct.
2 Q. Now, at the time you prepared your December 2013
3 Report, you had not reviewed Mr. Zambrano's RICO testimony;
4 right?
5 A. That's correct.
6 Q. But you reviewed it now; right?
7 A. Yes.
8 Q. And were you aware, when you prepared your First
9 Report in December 2013, that Mr. Zambrano had testified in
10 the RICO proceedings?
11 A. I don't know. I don't think so, but I don't know.
12 Q. In any event, you weren't aware when you wrote
13 that report, but you are aware now that Mr. Zambrano
14 acknowledged that Mr. Guerra drafted Orders for him and
15 shipped them to him by TAME?
16 A. I believe that's my understanding, yes.
17 Q. And you're aware that Mr. Guerra testified
18 basically to the same effect?
19 A. For Orders outside the Ecuadorian Judgment, the
20 Lago Agrio, I believe that's the case. I believe that was
21 his testimony. I could be wrong.
22 Q. And you haven't seen any forensic evidence that
23 would contradict that testimony by either Mr. Guerra or
24 Mr. Zambrano?
25 A. Which testimony in particular?

09:36 1 Q. I'm talking about testimony from Mr. Guerra and
2 Mr. Zambrano that, with respect to Orders outside the
3 Chevron Case, Mr. Guerra prepared drafts, used TAME to ship
4 them to Mr. Zambrano, and Mr. Zambrano issued the Orders.
5 A. Not from a forensic point of view, no.
6 Q. Thank you.
7 I want to turn to another topic now. One of the
8 things that you have done in your analysis in formulating
9 your opinion is to take different documents and to compare
10 their text; is that right?
11 A. Yes.
12 Q. So, for example, with the December 21
13 Providencias, you compared that with the December 28th
14 Providencias?
15 A. Yes.
16 Q. And then you compared both of those documents to
17 the Final Judgment?
18 A. Yes.
19 Q. And you drew conclusions from that comparison?
20 A. Yes.
21 Q. Okay. I want to look back to your December 2013
22 Report that's behind Tab 1. I want to take you to Page 9,
23 and it's Paragraph 27.
24 Do you recall what you said there?
25 A. Yes.

09:37 1 Q. I want to take you to the second sentence of that
2 paragraph. You were criticizing Mr. Lynch for comparing
3 documents, the text of documents, on the grounds that
4 that's not an application of forensic science. That was
5 your criticism of Mr. Lynch?
6 A. I'm not sure it was a criticism. It was just a
7 statement that the software and the process he used was
8 really just comparing words from a forensic point of view.
9 It wasn't a specialized--it wasn't a specialized science.
10 Q. Let's look at Paragraph 28, then. It said, "The
11 comparison done by Mr. Lynch is akin to simply reading two
12 documents, identifying similarities and differences between
13 the documents. Doesn't require any forensic ability."
14 That was what you said?
15 A. Yes.
16 Q. But that's exactly what you did with the
17 Providencias documents you found on Mr. Zambrano's
18 computer; right?
19 A. Yes.
20 Q. Thank you.
21 I want to move on to talk about USB Devices now.
22 You said that there was no evidence that a document was
23 copied from a USB Device to either of the Zambrano
24 Computers; is that right?
25 A. Can you point me to where I said that?

09:38 1 Q. Yeah. Let's look at your November 2014 Report,
2 which is behind Tab 3. And it's Paragraph 7 that I have in
3 mind.
4 I'm sorry, I should identify the timeframe between
5 October 2010 and February 2011. You said there's no
6 evidence that any document was copied from a USB Device to
7 any of the Zambrano Computers. I'm sorry, and used to
8 create any part of the Lago Agrio Judgment.
9 A. Yes, and used to create the Lago Agrio Judgment,
10 yes.
11 Q. Okay. Sorry, that's a little more precise
12 formulation of what you said.
13 PRESIDENT VEEDER: Just before you go on, as
14 yesterday, it's important to speak a little bit more slowly
15 both of you, and to leave gaps for the interpreters to
16 interpret.
17 MR. WHITE: Understood, thank you.
18 BY MR. WHITE:
19 Q. You would agree, Mr. Racich, that during the
20 period when you say the Judgment was being drafted, this
21 October 2010 to February 2011 period, 13 USB Devices were
22 attached to the Zambrano Computers; right?
23 A. I believe that's the case.
24 Q. Let's now go to Mr. Lynch's August 2014 Report,
25 and that's behind Tab 6 in your notebook. Let's go to

09:40 1 Page 36, Table 6. And this is a table that lists the USB
2 Device that were used during the period October 2010 to
3 March 2011.
4 PRESIDENT VEEDER: Let's just pause. Is the table
5 reference right?
6 MR. WHITE: I'm sorry, Table 23 under heading
7 Number 6. My apologies.
8 BY MR. WHITE:
9 Q. Do you have that in front of you, sir?
10 A. I do.
11 Q. This is a list of USB Devices used during the
12 period October 2010 through March 2011; is that right?
13 A. Yes.
14 Q. Okay. Now, you haven't received all of the 13 USB
15 Devices that were connect to the Zambrano Computers during
16 this period of time, have you?
17 A. No.
18 Q. There are USB Devices that neither you nor
19 Mr. Lynch had access to; right?
20 A. Yes.
21 Q. I want to look at the time period when these USB
22 Devices were being connected.
23 So, Providencias was created on October 11, 2010;
24 right?
25 A. Yes.

09:41 1 Q. And on October 12th, the next day, a USB Device
2 was connected; right?
3 A. Yes.
4 Q. And then between that date, October 12th and
5 December 21st, how many USB Devices were connected to the
6 Zambrano Computers?
7 A. At least seven.
8 Q. In the period between December 21st and
9 December 28th, two more USB devices were connected; right?
10 A. Including the 28th, yes.
11 Q. And then prior to the January--you've identified
12 another document besides Providencias, Caso Texaco. Caso
13 Texaco--between the time you recovered Judgment text and
14 Caso Texaco from December 28th, 2010, there were a further
15 three USB Device connections shown here; right?
16 A. Could you give me those dates again?
17 Q. Yeah, I'm talking about the period after
18 December 28th when you recovered a period of Providencias,
19 and I think it's January 19th when you recovered a version
20 of Caso Texaco that had Judgment text. You've got the
21 timeline?
22 A. Yes.
23 Q. There is a further three USBs connections recorded
24 here.
25 A. Yes.

09:10 1 Q. Now, when I asked you about the period between
2 October 12 and December 21st, you said at least seven
3 connections. That's because there could have been more;
4 right?
5 A. It's possible. I would have to look at both the
6 first and the last to be sure of what evidence we have,
7 but--so, with what the forensic evidence that we know we
8 have the first and the last attachment, and that's what we
9 can show and we can prove, and there may be certain other
10 information with regards to, say, link files, local host
11 information that we can look at as well. So I would have
12 to look at all of those factors to see what our window is.
13 Q. Okay. So, looking at this table, you know that
14 these connections occurred and there may have been more?
15 A. It's possible. I would have to look at all the
16 information, and I don't have that at the top of my head.
17 Q. Okay. And if one of the USB Devices that you
18 haven't seen that was connected had Judgment text on it,
19 you wouldn't know that, would you?
20 A. I don't have any way to know that at this point.
21 Q. Okay. Now, you did some analysis of what might
22 have been on those USB Devices in your November 2014
23 Report, so I would like to take you there. That again is
24 behind Tab 3 in the notebook, and I would like to take you
25 to Paragraph 60, again. I want to see if we can understand

09:45 1 at a high level what you're saying here.
2 You're saying that you can look at the names of
3 the files on these USB Devices and draw some conclusions
4 about what the contents are; right?
5 A. As Mr. Lynch said in his testimony, we can make
6 some inferences. We don't know for sure exactly what's in
7 the data without the data itself, but we can infer.
8 Q. Okay. Let's go back to Mr. Lynch's August 2014
9 Report--sorry that we're jumping around a little bit, but
10 it's behind Tab 6--and take a look at the file names.
11 Let's go to Page 37. I'll get the table name right this
12 time. It's Table 24.
13 This is where we see file names from documents
14 that were connected to--sorry, from documents that came
15 from USB Devices that were connected to Mr. Zambrano's
16 computers; right?
17 A. Well, to be technically accurate, these are
18 documents that were opened from--documents that existed on
19 USB Devices that were opened on Mr. Zambrano's computers
20 while the USB Device was attached.
21 Q. Okay. And if you do that, what you just
22 described, it's possible you can open the USB Device, you
23 can copy text from a document that's on it, paste it into a
24 document, pre-existing document, on the computer, close the
25 document that you opened from the USB Device, removed the

09:46 1 USB Device, and you won't know the contents of the document
2 that was on the USB device from which the text was copied;
3 isn't that right?
4 A. We would need access to the USB Device to be
5 certain, but as you say, we don't have that, and have no
6 evidence of that one way or the another.
7 Q. Okay. So, I just want to be clear, if somebody at
8 Mr. Zambrano's computer plugged in one of these USB
9 Devices, opened one of the documents that's listed here,
10 copied text out of that document, pasted it into a document
11 that was already on the Zambrano Computer, closed the
12 document on the USB Device, unplugged the USB Device, we
13 wouldn't know what the text was in the document that was on
14 the USB Device; right?
15 A. We would need access to the USB Device itself in
16 order to definitively determine that.
17 Q. Okay. So, what we've got here and what you looked
18 at was the names of the files--right?--and I just want to
19 ask you if you agree with me that if we look down to the
20 file with the Create time of November 9th, 2010, at 20:20
21 hours, the document name there is Pinocho1.doc; right?
22 A. I apologize. I left my glasses in my bag.
23 Q. It's on the screen there.
24 A. That might be a little better.
25 Yes, I can see that.

09:48 1 Q. Would you like to take a break and get your
2 glasses, would that help?
3 A. If it I could take a minute, I know exactly where
4 they are.
5 PRESIDENT VEEDER: Take your time, of course.
6 THE WITNESS: I apologize.
7 MR. WHITE: I don't want you to be without your
8 glasses.
9 (Pause.)
10 THE WITNESS: Thank you very much. Okay.
11 BY MR. WHITE:
12 Q. I was drawing your attention to the document with
13 the name "Pinocho1.doc." You can't draw any conclusions
14 from the file name as to what was in the content of that
15 document, can you?
16 A. No.
17 Q. Okay. And similarly, if we go down four lines, we
18 see KKKK.docx. You can't draw any conclusions about what's
19 in that document, can you?
20 A. Not from the name. You can see the dates, the
21 Last Modified Dates of those, though. For the Pinocho1 I'm
22 looking, the Last Modified Date was September 11, 2010.
23 Q. Okay. Got it.
24 One thing you can tell from the name, though, is
25 one is a .doc file and one is a .docx file. Those are Word

09:50 1 documents; right?
 2 A. Yes.
 3 Q. Just like Providencias?
 4 A. Yes.
 5 Q. And just like Caso Texaco?
 6 Just one other I wanted to look at, if we go down
 7 two more from the KKKK document, we have Documento1; right?
 8 A. Yes.
 9 Q. And you can't tell anything from that file name
 10 other than the fact that it's a Word document like
 11 Providencias and Caso Texaco; right?
 12 A. Well, in this case, it's a doc file and the
 13 Providencias and Caso Texaco are docx files, so it's
 14 slightly different but they are Word--Office documents.
 15 Q. Let's turn from that now to the discussion of
 16 internet history, and I would like to go to Slide 14, if
 17 you have your slide deck from yesterday. I want to look at
 18 Slide 14.
 19 A. I actually don't have the slide, I apologize.
 20 Q. This is Mr. Racich's, yes.
 21 So, I want to look at Slide 14 about internet
 22 history. Your first bullet point there is the recovered
 23 internet history reveals legal research and translation Web
 24 sites. Do you recall that?
 25 A. Yes.

09:51 1 Q. But to be clear, you didn't recover any evidence
 2 of visits to legal research sites during the period from
 3 October 2010 to February 2011, other than one visit or some
 4 visits to fielweb; right?
 5 A. I believe those are the ones we could establish
 6 exact dates and times.
 7 Q. Okay. But you didn't have any evidence of visits
 8 to other legal research sites during the time period
 9 October 2010 to February 2011; right?
 10 A. Not all the entries had date and time stamps. The
 11 ones that we did have, the fielweb was the only one with a
 12 particular date and time stamp.
 13 Q. Okay. And fielweb, you agree, can't be used to
 14 access the English language cases that were or to locate
 15 the English language cases that were found in the
 16 December 21st Providencias; right?
 17 A. I don't know. I didn't do any analysis as to what
 18 documents were available in there.
 19 Q. Okay. Now, let's go to your November 2014 Report.
 20 Again, that's behind Tab 3. And I would like to take you
 21 to Paragraph 49, and that's on Page 13.
 22 This is where you say it's normal that old
 23 internet history is deleted but cookies remain; right?
 24 A. They can remain, yes.
 25 Q. You didn't find any cookies or any internet

09:53 1 history that showed visits to legal research sites other
 2 than fielweb during this period, October 2010, you say,
 3 through March 2011; right?
 4 A. We didn't have any metadata fields available with
 5 dates and times that showed that, no.
 6 Q. You say in the third sentence, this is the first
 7 cookie you found, and that's at January 11, 2012; right?
 8 A. There is a cookie for the "lexisweb.com," if
 9 that's what you're referring to.
 10 Q. And that's 11 months after--almost 11 months after
 11 the Judgment was issued; right?
 12 A. That's what the metadata of that particular cookie
 13 file shows, yes.
 14 Q. Okay. The next one you identify is on
 15 May 31st, 2012, more than a year after the Judgment was
 16 issued?
 17 A. Yes.
 18 Q. Now, let's talk about--let's talk about visits to
 19 translation Web sites. You testify about this in
 20 Paragraph 50; right?
 21 A. Yes.
 22 Q. Okay. And you talk about--the first one,
 23 "traducegratis.com." The only evidence you found of visits
 24 to that site happened in 2009; right?
 25 A. Yes.

09:55 1 Q. Okay. You identify later in that paragraph a
 2 visit to a Web site "windowslivetranslator.com" on
 3 January 4th, 2011; right?
 4 A. Yes.
 5 Q. But that is after the English language authorities
 6 appeared in the December 21st Providencias; right?
 7 A. With regards to the one draft that we--the
 8 snapshots that we were able to recover, there were, my
 9 understanding is that there were--there was some case law
 10 in that draft.
 11 Q. Right. English language case law on
 12 December 21st, and that's before the January 4th visit that
 13 you found to windowslivetranslator?
 14 A. Yes.
 15 Q. I want to turn to a different topic now. This is
 16 the SATJE records. And if you go to Tab 7(a) of
 17 Mr. Lynch's--well, it's Tab 7(a), it's an exhibit to
 18 Mr. Lynch's Report from January of this year. Have you
 19 reviewed that exhibit?
 20 A. Tab 7(a)?
 21 Q. Tab 7.
 22 A. It says Exhibit 1?
 23 Q. Yes.
 24 What's in here is first a translation of some
 25 documents followed by the original Spanish-language

<p>Sheet 8</p> <p style="text-align: right;">1234</p> <p>09:57 1 documents, so you will see the translation, then there's 2 the certification from Merrill Corporation, and then the 3 next page is where I want to take you. 4 So, if you go through the English-language 5 translation, you will come at the end of that to a 6 certification that says "Merrill Corporation" on it. 7 A. Okay. Got it. 8 Q. And did you review these documents before you 9 prepared your March 2015 Report? 10 A. I believe--these were attachments to Mr. Lynch's 11 Report? 12 Q. They were. 13 A. Yeah, then I read them. 14 Q. And you saw that these have official Government 15 seals from a Government department in Ecuador; right? 16 A. I don't know one way or the other. I presume that 17 they are official seals. 18 Q. Okay. What I would like to do now is look at your 19 SATJE information. It's Exhibit Respondent 1348, and it's 20 behind Tab 17 in this binder. 21 A. I'm glad I have my glasses. 22 Q. I'm glad I have a screen. 23 So, this is behind Tab 17 in the binder, and it's 24 Exhibit Respondent's 1348. 25 This is what you exhibited to your Report in</p>	<p style="text-align: right;">1236</p> <p>10:00 1 A. Typically, yes. 2 Q. Yeah. So--and so you don't know whether somebody 3 using Mr. Zambrano's computers was visiting file sharing 4 sites like Dropbox? 5 A. There is no evidence of it. 6 Q. Just like there is no evidence of legal research 7 sites during this period, but it's possible in your view? 8 A. Correct. There is no evidence, but it is 9 possible. 10 Q. All right. And you also don't know whether 11 somebody on Mr. Zambrano's computer was visiting e-mail 12 addresses like--e-mail sites like Hotmail, and downloading 13 attachments or copying text out of attachments? 14 A. Can you rephrase that question? 15 Q. Yeah. 16 If the internet history is incomplete, as you 17 suggest, it's possible that somebody on one of 18 Mr. Zambrano's computers could have logged in to Hotmail 19 and found a document or found text in an e-mail and cut and 20 pasted it into Providencias and you wouldn't know that. 21 A. Those are two different things. The internet 22 history itself wouldn't necessarily remove the process of 23 downloading a document, so if you downloaded a document, 24 the document would, in fact, be created on the local 25 machine. So, in order to get information out of a</p>
<p style="text-align: right;">1235</p> <p>09:58 1 support of your conclusion that the Judgment was uploaded 2 from one of Mr. Zambrano's computers; right? 3 A. Yes. 4 Q. Okay. This doesn't have any official Government 5 seals on it, does it? 6 A. This was an electronic copy, no. 7 Q. Okay. Where did you get this? 8 A. I was provided this by counsel. 9 Q. And what's your basis for thinking that these are 10 official records from the SATJE system? 11 A. I was told by counsel that these were the exports 12 of the logs of the SATJE system--exported logs of the SATJE 13 system. 14 Q. Okay. And you don't explain in your Report 15 anywhere how counsel, or whoever obtained these from the 16 SATJE system, how they went about obtaining them for you, 17 did you? 18 A. I did not. 19 Q. Okay. I want to go now to--I want to go now to 20 your most recent report from March of this year. I believe 21 it's behind Tab 4 in your binder. I want to go to 22 Paragraph 18 and pick back up on a point about the internet 23 history. 24 You say that the internet history is necessarily 25 incomplete; right?</p>	<p style="text-align: right;">1237</p> <p>10:02 1 document, it would be saved on the local computer, and 2 there would--or could--be evidence of that. 3 As far as content of an e-mail, the internet 4 history wouldn't tell us that one way or the other whether 5 or not that occurred, but again, there is no evidence about 6 that. 7 Q. Right. So, okay, fair point about downloading a 8 document. What if you just cut and pasted text? Then you 9 wouldn't--the internet history wouldn't tell you that; 10 right? 11 A. No, the internet history would not tell us that. 12 Q. Okay. Now, I wanted to look at some of the 13 internet history that you did recover--oh, yeah, sorry, one 14 other question. 15 Hotmail allows you to open a document without 16 downloading it; right? 17 A. You can preview certain types of documents. It's 18 possible. 19 Q. Yeah. And you could cut and paste text out of one 20 of those preview documents? 21 A. I don't think you can cut and paste document text 22 from that. 23 Q. But you can copy and paste? 24 A. I believe so. 25 Q. All right. Well, looking at your Paragraph 18 on</p>

10:03 1 Page 5 of the most recent report, you've identified a Web
2 site here where there were multiple visits--multiple hits,
3 you call it--and that is Live.com; right? The log-in page
4 on Live.com; right?
5 A. Yes.
6 Q. And this is an internet hit you got on
7 Mr. Zambrano's computer?
8 A. Yes.
9 Q. And that is the log-in page or can be used as the
10 log-in page to access Hotmail; right?
11 A. Yes.
12 Q. So, the user of Mr. Zambrano's computer was, we
13 know from the internet history, going to the log-in page
14 for Hotmail; right?
15 A. Yes.
16 Q. And if we go to the next page, top of Page 6, you
17 show a hit count of 14 on January 7th, 2011; right?
18 A. Yes.
19 Q. And then you see a hit count of 29 on
20 January 13th, 2011; right?
21 A. Yes.
22 Q. That means that, at a minimum, somebody using the
23 Zambrano Computers had gone to the log-in page of Hotmail
24 14 times at least by January 7th, 2011, and a further 15
25 times by January 13th; right?

10:04 1 A. Yes. The hit count indicates an incremental
2 hitting of that page.
3 Q. So, during this period in early January 2011, a
4 month before the Judgment was issued, somebody on
5 Mr. Zambrano's computer was logging in to Hotmail; right?
6 A. Yes.
7 Q. All right. Now, did you recover the contents of
8 any e-mails that were opened from Hotmail on Mr. Zambrano's
9 computer during this time?
10 A. No.
11 Q. No. Now, one of the things that you've raised in
12 this report concerning Mr. Guerra's internet history is
13 that you found similar visits to Hotmail; right?
14 A. Yes.
15 Q. And you say that that's--the fact that that's
16 there and you can't find the e-mails, that's evidence that
17 somebody was deleting e-mails on Mr. Guerra's computer;
18 that's what you said, right?
19 A. It's a little different. What we were able to do
20 is recover fragments of the Hotmail messages themselves
21 that, the content, the body is no longer available on the
22 computer. And, as Mr. Lynch said, these types of e-mails
23 aren't really--they're not really designed to be stored
24 permanently, but parts of them are downloaded into the
25 internet history. We didn't find any--any examples of

10:05 1 fragments like that on the Zambrano Computers.
2 Q. Did you do that kind of recovery exercise on
3 Mr. Zambrano's computers?
4 A. I believe we pulled--we did the same process for
5 all three computers, yes.
6 Q. And the fact that you didn't find fragments on
7 Mr. Zambrano's computer, that doesn't mean that somebody
8 wasn't opening e-mails on that computer; right?
9 A. It doesn't, but again, it doesn't mean that
10 definitively, but we have no evidence one way or the other.
11 All we--we do have evidence of that on Mr. Guerra's machine
12 but we don't have it on Mr. Zambrano's machine.
13 As you said, there is a log-in, there is evidence
14 that someone went to the log-in a number times, but there
15 is no evidence of what e-mail was opened, if any at all,
16 from what we have here.
17 Q. Okay. So, all you're saying there is that you
18 know that whoever logged into Hotmail on Mr. Guerra's
19 computer was able to see some e-mails, but you don't--all
20 you have on Mr. Zambrano's computer is that somebody went
21 29 times to log in to Hotmail but you didn't recover any
22 e-mail fragments?
23 A. That's correct.
24 Q. Okay. So, as far as you can tell, if somebody
25 actually found any e-mails in the 29 times they logged into

10:06 1 Hotmail from Mr. Zambrano's computers, records of what
2 those e-mails said are not there; right?
3 A. We don't have any evidence of that at all.
4 Q. Okay. Now, turning to Mr. Guerra's e-mails, if
5 whoever was visiting the Hotmail site on Mr. Guerra's
6 computer simply visited Hotmail, opened their in-box,
7 looked at e-mails, read e-mails, maybe even replied to
8 e-mails, those e-mails wouldn't be stored locally on the
9 computer in the ordinary course, would they?
10 A. As discrete files, some of the data would be
11 available in the "pagefile.sys." There likely could be
12 information that would be stored there for at least a
13 finite period of time. But as far as maintaining a
14 database outside of logging in to some sort of client,
15 there is no evidence that that occurred on Mr. Guerra's
16 machine.
17 Q. Let's simplify this. What you saw on Mr. Guerra's
18 machine is fully consistent with somebody who just opened
19 e-mails and closed them without ever taking active steps to
20 delete them from the computer; right?
21 A. As far as user? I don't think I ever said that
22 the user actively deleted it. I said that they were
23 deleted.
24 Q. You're saying that they were physically present on
25 the computer and somebody went in and deleted them?

<p>Sheet 10</p> <p style="text-align: right;">1242</p> <p>10:08 1 A. No, I said that they--that there were fragments 2 and information that were there, and then as we--when we 3 received the Guerra image, those weren't there anymore as 4 active data. 5 Q. That doesn't mean that somebody went in and 6 deliberately deleted e-mail content; right? 7 A. No, I didn't say--I don't believe I said that. 8 Q. Thank you. Now, you said that you found no 9 evidence of e-mails between Guerra and the Lago Agrio 10 Plaintiffs' lawyers; right? 11 A. Yes. 12 Q. That doesn't mean that there weren't any e-mails 13 between Guerra and the Lago Agrio Plaintiffs' lawyers. It 14 just means you didn't find any on this computer. 15 A. All I can go on is what the data has. I don't 16 have any information to show that that information existed. 17 Q. Yeah. But you don't--but you can't conclude to a 18 reasonable degree of certainty that that never happened; 19 right? 20 A. No, but I can conclude to a reasonable degree of 21 scientific certainty that it's not there. 22 Q. It's not there, but you don't know that it was 23 never there? 24 A. There is no evidence to it. 25 Q. Yeah. There is no evidence that it was there, but</p>	<p style="text-align: right;">1244</p> <p>10:11 1 A. I do. 2 Q. Okay. That's a Gmail e-mail address; right? 3 A. Yes. 4 Q. And that says "SDonziger@gmail.com"; right? 5 A. Yes. 6 Q. Okay. That's Mr. Donziger's e-mail address; 7 right? 8 A. I would have to go back and look, but I believe 9 that's correct. 10 Q. Well, when you searched to see if there were 11 records of any e-mails to and from the Lago Agrio 12 Plaintiffs' lawyers you had a list of e-mail addresses you 13 were searching; right? 14 A. Yes. 15 Q. Okay. And that's one of them; right? 16 A. That's an e-mail address, yes. 17 Q. Okay. And did you find this when you were doing 18 your searches? 19 A. I can't--I don't know. I don't--I honestly don't 20 know. 21 Q. Okay. Well, we can close out this part of the 22 program, and I want to look at another file record. I want 23 to go to File Record 226. Okay. And this one--Jamie, if 24 you'll just Control-F and do a search for DONZ. 25 Okay. We find in this file record another</p>
<p style="text-align: right;">1243</p> <p>10:09 1 you can't exclude that it was there; right? 2 A. I just don't have any evidence one way or the 3 other. I have that it's not there. 4 Q. Okay. Let's look at Exhibit 2 to your March 2015 5 Report, and this is slip-sheeted in the binders because 6 it's a native document that we're going to have to go into 7 on the screen. 8 A. Okay. 9 Q. Okay. And let's go to the Hotmail Web mail 10 fragments here. This is an exhibit you prepared; right? 11 A. Yes. 12 Q. Okay. Let's go to File Record 32. 13 Okay? Again, this is information that you 14 prepared and put in your exhibit? 15 A. Yes. 16 Q. Okay. Now, if we right click on this and go to 17 View Source, that's the Code behind the e-mails; right? 18 A. It's the HTML/XML information there, yes. 19 Q. Okay. And down the right-hand side you--we see 20 Numbers 1, 2, 3, 4; right? 21 A. Yes. 22 Q. I want to go down to Line 1815. Okay. And ask 23 Jamie to highlight--yeah--the name that the cursor is on 24 right now. 25 Do you see that?</p>	<p style="text-align: right;">1245</p> <p>10:12 1 reference to the e-mail address, to an e-mail address 2 SDonziger@gmail.com; right? Mr. Donziger's e-mail address? 3 A. Yes. 4 Q. Okay. And would it surprise you to know--I'm not 5 going to go through the exercise, but if we do this 6 multiple times, you'll find multiple references here? 7 A. That's possible. 8 Q. Did you find these references when you were doing 9 your searches? 10 A. I can't recall sitting here. I can't imagine that 11 the searching--we used NK Search Tool to do it. It would 12 have pulled this up. 13 MR. WHITE: Thank you, sir. 14 Mr. Veeder, if we took a five-minute break, we 15 might be able to shorten this and wrap things up. 16 PRESIDENT VEEDER: Never fails. Five-minute 17 break. 18 MR. WHITE: Thank you. 19 (Brief recess.) 20 PRESIDENT VEEDER: Let's resume. 21 MR. WHITE: Thank you, sir. 22 BY MR. WHITE: 23 Q. Mr. Racich, I want to take you to another one of 24 these very large documents that we need to put on the 25 screen, and that is Exhibit 21 from Mr. Lynch's August 2014</p>

<p>Sheet 11</p> <p style="text-align: right;">1246</p> <p>10:20 1 Report. 2 You recognize this; this is the internet history 3 from Mr. Zambrano's Old Computer? 4 A. That might help. Yes. 5 Q. Okay. What I want to take you to is Page 1104. 6 This is about halfway through the document, which is why we 7 don't have it all printed. Page 1104, I want to take you 8 to an entry on January 12th, 2010, which we'll highlight 9 here. And you may be able to see it easier on the screen 10 that's in front of you rather than the big screen. 11 But that's an access to Hotmail; right? 12 A. Yes. Yes, it appears to be. 13 Q. Okay. And that's at 5:33 in the evening on 14 January 12, 2011; right? 15 A. Yes. 16 Q. Okay. Now, I want to take you down two minutes 17 later to 5:35 that same day and highlight the entry we see 18 there. 19 Do you see that? 20 A. Yes. 21 Q. That shows that somebody on Mr. Zambrano's Old 22 Computer opened the document Caso Texaco at 5:35 that day; 23 right? 24 A. Yes, that's the Old Computer, and there are a 25 number of documents that were opened in quick succession</p>	<p style="text-align: right;">1248</p> <p>10:24 1 A. Yes. 2 Q. That was your opinion in November of 2014; right? 3 A. Yes. 4 Q. In your March 2015 Report you relied on the 5 OSessions logs; right? 6 A. To the fact that they're within the context that 7 they're available, yes. 8 Q. So, you think that they're sufficiently reliable 9 for purpose of the analysis you did in March of this year? 10 A. For the purposes that I relied on them, yes. 11 Q. And that's actually the subject of Slide 10 of 12 your presentation from yesterday; right? 13 A. Yes. 14 Q. So, let's go to Slide 10. 15 And you're saying that there is 16 consistent--consistent Microsoft Office--sorry--Microsoft 17 Word use between October 2010 and February 2011. That's 18 the point you're making; correct? 19 A. Yes. 20 Q. And the reason that you do this is found in your 21 March 2015 Report at Paragraph 23, so let's go behind 22 Tab 4. 23 Sorry. That's where you describe what's in your 24 slide. Where I want to take you now is to Paragraph 9 of 25 the March 2015 Report.</p>
<p style="text-align: right;">1247</p> <p>10:21 1 after that. 2 Q. Right. So, at 5:33 on January 12th, somebody on 3 Mr. Zambrano's Old Computer opens Hotmail, and two minutes 4 later they open Caso Texaco; right? 5 A. Yes. 6 Q. Now, just so that we're oriented in time here, 7 that is--that's the 12th of January 2011. The 19th of 8 January 2011 is the date on which you recovered a version 9 of Caso Texaco that had Judgment text in it; right? 10 A. Yes. 11 Q. Thank you, Mr. Racich. 12 I want to move from here to the discussion of 13 OSession logs. We can go to it if you need to, but I just 14 ask you if you recall that in your November 2014 Report you 15 criticize Mr. Lynch's reliance on OSession logs on the 16 grounds that those logs are unreliable. 17 A. No. It was more along the lines that Mr. Lynch 18 didn't provide any support for the fact that they said what 19 he said they said. 20 Q. Well, let's look at your November 2014 Report, 21 then, and I want to take you to Paragraphs 72 and 73. This 22 is behind Tab 3 in the notebook. Page 18. And at the end 23 of Paragraph 73 it's where you say: "In my experience the 24 log entries have been inconsistent (if they were are 25 created at all) on various computers I've analyzed."</p>	<p style="text-align: right;">1249</p> <p>10:25 1 And this is where you're using the OSession logs. 2 You're using it to draw this comparison between two 3 scenarios. One is a scenario where Mr. Zambrano's 4 assistant writes the Judgment. The other is that a third 5 party writes the Judgment and gives it to Mr. Zambrano 6 immediately before he issued it on February 14, 2011. Do 7 you recall that? 8 A. Yes. 9 Q. And that second scenario about a third party 10 giving it to Mr. Zambrano right before it's issued, you say 11 that didn't happen because of your analysis of the OSession 12 logs; right? 13 A. Well, with regard to the OSession, what I was 14 talking about with the fact that they're not necessarily 15 complete is they're not a--there are instances on different 16 types of operating--well, not operating system, different 17 versions of Microsoft Office that are installed where the 18 OSessions are not available at all or the fact that there 19 are instances where the OSessions aren't complete due to 20 the fact that they are not saved and recorded. As we 21 described at least two instances where Microsoft Office was 22 crashed or where Microsoft Office has issues which are not 23 necessarily recorded in the OSessions. 24 Q. We've moved on from that point, Mr. Racich. Maybe 25 it would be helpful if we go to Paragraph 23 of this</p>

10:26 1 Report. This is under the heading where you discuss
 2 OSession logs.
 3 You say that there would be unreasonably long
 4 periods of use in Microsoft Word during this period in
 5 early February 2011, if somebody had given a copy of the
 6 Judgment to Mr. Zambrano at that point in time. That's
 7 what you're using OSession logs for in your Report; right?
 8 A. Yes.
 9 Q. And that's to refute the scenario you described in
 10 Paragraph 9 that some third party gave Mr. Zambrano a copy
 11 of the Judgment right before it was issued; right?
 12 A. Again, it's what evidence we have. This is the
 13 evidence that we do have.
 14 Q. Here's where I'm going with this, Mr. Racich.
 15 That's a straw man argument; right? Nobody from
 16 the Claimants--Mr. Lynch--nobody has ever suggested that
 17 somebody gave a pre-printed or pre-drafted copy of the
 18 Judgment to Mr. Zambrano right before it was issued and
 19 then it was uploaded to SATJE; right?
 20 A. I don't know one way or the other.
 21 Q. Okay. Let's talk about--sorry, one more thing on
 22 the OSession logs. Let's go to Mr. Lynch's January 2015
 23 Report that's behind Tab 7. Let's go to Page 20.
 24 Now, you described in your Report that there was
 25 near constant use--this is on your Slide 10--consistent

10:28 1 Microsoft Word use between October 2010 and February 2011;
 2 right?
 3 A. Yes.
 4 Q. When we talk about the edit time for Providencias,
 5 I want to focus on the period between December 21 and
 6 December 28, 2010.
 7 A. Okay.
 8 Q. And you've suggested that the edit time in
 9 Providencias between December 21 and December 28, 2010, may
 10 not tell the full story of when Judgment text was being
 11 drafted because there could have been drafting going on in
 12 other documents; is that your testimony?
 13 A. That's possible, yes.
 14 Q. So, I want to focus in on that period and the
 15 issue of whether drafting was going on in other documents
 16 that's not reflected in the edit time of Providencias
 17 between December 21, 2010, and December 28, 2010.
 18 Now, these two paragraphs are where Mr. Lynch
 19 describes--
 20 A. I'm sorry, which paragraphs?
 21 Q. The two paragraphs at the bottom of Page 20.
 22 A. Thank you.
 23 Q. Mr. Lynch sets out the edit time for Providencias
 24 as 17.4 hours during the Christmas week of 2010; right?
 25 A. I believe that's correct.

10:30 1 Q. Now, if somebody was working in a Microsoft Office
 2 document other than Providencias, that would be reflected
 3 in the OSession logs; right?
 4 A. Barring some sort of issue where it wasn't
 5 recorded, yes.
 6 Q. Okay. And the only time that Microsoft Word was
 7 active, that the OSession logs show that Microsoft Word was
 8 active on the Old Computer during Christmas week of 2010 is
 9 aside from the edit time of Providencias, the total amount
 10 of time is 52 minutes; right?
 11 A. Can you repeat that? I apologize.
 12 Q. Yeah.
 13 So, Microsoft Word--sorry, Providencias has an
 14 edit time of 17.4 hours between December 21 and
 15 December 28, 2010; right?
 16 A. Yes.
 17 Q. Okay. And that's the Christmas week; right?
 18 A. Yes.
 19 Q. Okay. And the OSession logs show that Microsoft
 20 Word was opened during that period for a total of 18.3
 21 hours; right?
 22 A. I'd have to go back to be sure, but that sounds
 23 about right.
 24 Q. Okay. And what that tells us is that, if somebody
 25 was working in another Word document during the Christmas

10:31 1 week of 2010 on Mr. Zambrano's Old Computer, for whatever
 2 purpose, and they were outside Providencias, they were only
 3 doing it for less than an hour; right?
 4 A. That's the minimum amount of time based on the
 5 OSessions, so the OSessions could be incomplete, but with
 6 regards to--that's our minimum.
 7 Q. They're only incomplete if something unusual
 8 happened; right?
 9 A. If something happened. I don't know if it's usual
 10 or not. Microsoft Word unfortunately crashes a lot for me,
 11 but if there is a crash on Microsoft Word, that would
 12 necessarily limit the OSessions.
 13 Q. And you have no evidence that there was a crash of
 14 Microsoft Word during the Christmas week of 2010 on
 15 Mr. Zambrano's computer, do you?
 16 A. Well, we know it happened twice or at least we
 17 suspect it happened twice based on the temporary files that
 18 were saved and not deleted but once on the 21st and once on
 19 the 28th.
 20 Q. Okay. But between these dates, you don't have any
 21 evidence that that happened?
 22 A. We don't have any other instance like that between
 23 those time frames.
 24 Q. All right. I want to talk about the edit time in
 25 Providencias, Mr. Racich.

10:33 1 Edit time is a type of metadata; right?
 2 A. Yes.
 3 Q. It shows us the amount of time a document was open
 4 on a computer?
 5 A. Yes.
 6 Q. And you saw Mr. Lynch's demonstration yesterday--
 7 A. I apologize. It shows the amount of time the
 8 document was open and then saved.
 9 Q. Okay.
 10 A. With a change.
 11 Q. Okay. But any changes that were made that weren't
 12 saved wouldn't be reflected in the document; right?
 13 A. Correct.
 14 Q. Okay. So, edit time is the maximum amount of time
 15 a person could spend actively working in the document and
 16 then saving it; right?
 17 A. In general. I can think of some exceptions to
 18 that, but in general, it's a fairly good indicator of that.
 19 Q. But it's not the minimum amount of time; right?
 20 You could have a document open in Microsoft Word and the
 21 edit time accrues while you have no activity going on in
 22 the document?
 23 A. It begins to toll when the document starts to be
 24 opened.
 25 Q. Yeah. In other words, you can have edit time

10:34 1 accruing in a document, getting higher in a document, while
 2 nobody is actually actively working in the document; right?
 3 A. That's possible.
 4 Q. Now, it happens a lot; right? I mean, people open
 5 a document, they type text into it or cut and paste text
 6 into it, or whatever they are doing, they get up and go do
 7 something else, they come back and do some more work, and
 8 then they Save it, the time they spent doing something
 9 else, that's recorded as edit time; right?
 10 A. It continues to toll as time goes by.
 11 Q. Yes. So, the time spent doing something else in
 12 the hypothetical I just gave you, the edit time is
 13 accruing; right?
 14 A. In the hypothetical you gave, yes.
 15 Q. Okay. Now, Providencias was first opened on
 16 Mr. Zambrano's computer on--first created on Mr. Zambrano's
 17 computer on October 11, 2010; right?
 18 A. That's what the metadata indicates.
 19 Q. And that's the Old Computer; right?
 20 A. Yes.
 21 Q. Okay. Let's look at Mr. Lynch's August 2014
 22 Report, which you may still have open--I'm sorry, it is
 23 Tab 6.
 24 Let's go to Page 28, and that's Table 8. Table 8
 25 I wanted to take you to. That's the metadata--and that is

10:35 1 metadata from the recovered versions of Providencias;
 2 right?
 3 A. Yes, that Mr. Lynch recovered, yes.
 4 Q. Yeah. So, this is where we get from Document 11
 5 the file created on October 11, 2010; right?
 6 A. Yes.
 7 Q. And then we can see the Author name CPJS, that's
 8 where we get that it's the Old Computer?
 9 A. Yes.
 10 Q. And then that document is Last Saved By CPJS;
 11 right?
 12 A. Yes.
 13 Q. And then the Last Saved Date is December 21st,
 14 2010; right? So, that's the December 21st version of
 15 Providencias.
 16 A. Yes.
 17 Q. Now, the total edit time we get here from the
 18 creation of this document on Mr. Zambrano's computer until
 19 December 21st is 2,107 minutes; right?
 20 A. Yes.
 21 Q. That's 35 hours? Approximately?
 22 A. My math is awful, but yes, I believe that's
 23 approximately correct.
 24 Q. Okay. So, the most any of time anybody spent
 25 typing any text or cutting and pasting any text into that

10:36 1 document is around 35 hours; right?
 2 A. On this particular document, yes.
 3 Q. Yeah. Now, that document had 81 pages of text;
 4 right?
 5 A. Yes.
 6 Q. So, if Mr. Zambrano was dictating text to
 7 Ms. Calva for this period October--from the Create Date to
 8 the Last Saved Date, that's less time spent dictating than
 9 one 40-hour work week; right?
 10 A. As far as the timing goes, the 35 hours is less
 11 than one 40-hour work week.
 12 Q. Yeah. So, over the course of ten weeks
 13 approximately, you've got less than a 40-hour work week's
 14 worth of actual activity in this document?
 15 A. In this particular document.
 16 Q. Yeah. Now, in your November 2014 Report--we can
 17 go there if you need to--you say that text was created at a
 18 rate of one page per day if the work was evenly spaced;
 19 right?
 20 A. Yes.
 21 Q. That works out to--if we make your assumption,
 22 that works out to less than 30 minutes a day of dictation;
 23 right?
 24 A. I'll take your word for that on that one.
 25 Q. Okay. Now, you're aware that Mr. Zambrano and

10:38 1 Ms. Calva, the assistant, both testified that they didn't
2 start working on the Judgment until
3 mid-November 2011--sorry, 2010; right?
4 A. I don't recall off the top of my head. I would
5 have to go back to the testimony.
6 Q. Okay. Well, assume with me for a minute that
7 that's true. The period between October 11 and the
8 mid-November start time of their work, any edit time that
9 was accrued then, any Saves that accrued then, obviously
10 wouldn't be Judgment text; right?
11 A. I don't know. All I can say is that the document
12 was created on October 11th, and by December 21st, it had
13 the 42 percent of the Judgment in it.
14 And I apologize.
15 As to when it was put in there, I don't know
16 specifically.
17 Q. You don't have any evidence that there was
18 Judgment text in Providencias prior to mid-November 2010;
19 right?
20 A. I don't have any evidence one way or the other
21 when the data--when the text of the document, when it was
22 placed in. All I know is that, prior to the--it happened
23 before December 21st of 2010.
24 Q. And so, you can't say it happened before
25 December 1st?

10:39 1 A. No, or after. I can't say one way or the other.
2 Q. Okay. And another date I want to give you is
3 December 17th. You don't have any evidence that there is
4 any Judgment text in Providencias as of December 17th;
5 right?
6 A. We don't have any evidence other than the
7 snapshots that we have.
8 Q. Okay. And that's another way of saying there is
9 no evidence of any Judgment text in Providencias prior to
10 December 17th, 2010?
11 A. Can you repeat the question?
12 Q. Yeah.
13 I want to be clear, I want to make sure the
14 Transcript is clear. Your testimony is that there is no
15 evidence that there was any Judgment text in Providencias
16 as of December 17th, 2010?
17 A. What I can say is that the document as of the 21st
18 had the data from the--had the Judgment--the amount of
19 Judgment text that was in it as of December 21st. I can't,
20 nor can anyone else I believe determine exactly when the
21 data was put in there. We don't have evidence of that one
22 way or the other. We do have evidence of when it existed
23 within the bounds of certain snapshots.
24 Q. Mr. Racich, I'm going to ask you this again
25 because it's important. You don't have any evidence that

10:41 1 there was any Judgment text in Providencias as of
2 December 17th, 2010? Yes or no.
3 A. We don't know one way or the other.
4 Q. So you have no evidence of Judgment text in
5 Providencias as of December 17th?
6 A. We only have the snapshots that we have as of
7 December 21st and December 28th, and March 4th.
8 Q. Mr. Racich, that's not an answer to the question
9 I'm asking. The question I'm asking is, as of
10 December 17th, 2010, you've got no evidence that there was
11 any Judgment text in Providencias?
12 A. Again, what we have are our snapshots in time.
13 Where we have evidence as to when the data was there are in
14 our snapshots.
15 Q. That's what you do have. I'm asking you about
16 what you don't have. What you don't have is evidence of
17 Judgment text in Providencias as of December 17th--
18 MR. EWING: Mr. President, I would object. This
19 is asked and answered I think three, maybe four times.
20 PRESIDENT VEEDER: I think we're getting a
21 difficulty between the question and the answer, but my
22 colleague is going to clarify with a question from the
23 Tribunal's perspective.
24 ARBITRATOR LOWE: It's simply that I hear a clear
25 answer from the Witness, and I don't understand the

10:42 1 distinction that's leading you to ask the question again.
2 I wonder if in case this distinction should become
3 important later on, you can make it clearer.
4 MR. WHITE: Yes, it's simply this. I'm asking the
5 question to confirm that there is no Judgment text--that
6 there is no evidence of Judgment text in Providencias on
7 December 17th. What the Witness is not doing is not
8 answering what wasn't there. He's saying what was there on
9 December 21st. I don't think the Transcript is clear.
10 ARBITRATOR LOWE: Well, isn't he saying that
11 that's the only evidence that he has?
12 MR. WHITE: If that's clear to the Tribunal, I can
13 move on from this question.
14 PRESIDENT VEEDER: I think you've made your point,
15 and we'll come back to what it is later.
16 MR. WHITE: Thank you, Mr. President.
17 BY MR. WHITE:
18 Q. Now, given the testimony you've just given, it's
19 possible, consistent with the forensic evidence you've seen
20 that all of the Judgment text that appears in Providencias
21 on December 21st could have been cut and pasted into that
22 document in the days immediately preceding December 21st,
23 or, indeed, on December 21st; correct?
24 A. It's possible, but there is no evidence of it.
25 Q. Okay. Now, hypothetically, if I wanted to--if I

10:43 1 received a document with Judgment text, and I wanted--on
 2 December 21st or 20th or 19th--and I wanted to create the
 3 impression that that document may have been on the computer
 4 prior to those dates, and I wanted to have it in a document
 5 that had some edit time in it and multiple Saves, I could
 6 go back, look at an old file on my computer and simply cut
 7 and paste the text that I wanted in the document into that
 8 document, and you would see what you're seeing in the
 9 December 21st Providencias: A document that was created a
 10 few months before, multiple Saves, and a chunk of Judgment
 11 text; right?
 12 A. So, I just want to be clear with the hypothetical.
 13 You're talking about opening the document that existed
 14 previously, presumably this October 11th document.
 15 Q. Yep.
 16 A. Opening it and to give the impression that it had
 17 been worked on prior to copying and pasting--I don't think
 18 the evidence supports that in this case.
 19 Q. Yeah. I'm not asking whether you have evidence
 20 that says that happened. I'm asking if it could have
 21 happened consistent with the evidence you see.
 22 A. I don't--okay.
 23 Q. So--so, the scenario is: Somebody wants to create
 24 the impression that there has been work done, there has
 25 been Saves on a document, that they--the text of which they

10:45 1 get in mid- to late-December 2010, they can just go back
 2 and find an old file on the computer, open it up, dump the
 3 Judgment text into it, and it will look like what you see
 4 here, a document that was opened a few months ago, multiple
 5 Saves, and some edit time; right?
 6 A. I think there is another datapoint that's here
 7 that doesn't support that.
 8 Q. I'm asking you to confine yourself to the
 9 hypothetical that I'm giving you.
 10 A. And I appreciate that. I'm saying that you asked
 11 if whether or not the evidence that we have here supports
 12 that theory, and I don't believe so.
 13 There is evidence--and I know in my last Report,
 14 in Exhibit 3, I believe it was, it shows that the
 15 Providencias.doc was opened hundreds of times over the
 16 lifespan of the document between October 11th and
 17 that--what I'm choking on is that when that--when that
 18 entry, the internet history entry that shows that,
 19 indicates, that's not consistent with someone opening a
 20 document hundreds of times. That's not consistent with
 21 someone doing a--open up to sort of fake people out that
 22 they were working on the document.
 23 Q. Let's go about this another way, Mr. Racich.
 24 Are you aware that Providencia is the Spanish word
 25 for order?

10:46 1 A. I am.
 2 Q. And the Spanish word for judgment is Sentencia?
 3 A. I am.
 4 Q. Okay. And that Providencias with an S is plural;
 5 right?
 6 A. Yes.
 7 Q. It means Orders?
 8 A. Yes.
 9 Q. Okay. Now, you said earlier that you can look at
 10 the title that somebody gives a document and draw some
 11 conclusions about what they put in the document; right?
 12 A. It's possible. You can infer.
 13 Q. Yeah. And using that inference, wouldn't you
 14 infer that when somebody creates a document called
 15 Providencias, they're intending to put Orders in it, but if
 16 they were going to put a judgment in it, they'd call it
 17 Sentencia?
 18 A. I can't tell as far as specifically. I said you
 19 can infer, but what people have as a matter of habit, I
 20 don't know.
 21 Q. Yeah, but it would be a logical inference that
 22 when you're looking at a document that says Providencias,
 23 when you open it up, you're going to find Orders; right?
 24 A. Again, it depends on who is writing the Order
 25 and/or Judgment.

10:47 1 Q. And that's an inference you're not prepared to
 2 draw?
 3 A. No, not here.
 4 Q. Okay. And you're aware that October 11, the
 5 Create Date of Providencias, are you aware that that's the
 6 date that Mr. Zambrano came back on to the case?
 7 A. I may have--I may have known that.
 8 Q. Are you aware that he issued an Order that day?
 9 A. No, I was not.
 10 Q. Okay. Well, with that in mind, coming back to my
 11 hypothetical, if Mr. Zambrano wanted to create the
 12 impression that he had been working on Judgment texts and
 13 Providencias for a period of months, he could go back to a
 14 document called "Providencias"--not Sentencia--in which he
 15 had been working on Orders, which there are multiple Saves
 16 and there's some edit time--and he could cut and paste
 17 Judgment text into that document, and it would appear that
 18 that document had had Judgment--may have had Judgment text
 19 for a period of time and that it may have been edited and
 20 Saved multiple times.
 21 A. What we have here is--the only datapoints that we
 22 have evidence of is that the Ecuadorian Judgment existed in
 23 this Providencias, and it's a particular Providencias in a
 24 particular folder structure.
 25 And we have two instances, one where it's been

10:49 1 opened on the Old Computer, one where it's been opened on
 2 the New Computer. On the Old Computer it's been opened in
 3 excess of 400 times between the lifespan of the document,
 4 October 11th, and--again, the latter date is where I'm
 5 tripping. I can't remember what that latter date is--and
 6 on the New Computer we have at least 39 or 40 times the
 7 same document in that particular location being opened.
 8 And the only information we have at present is
 9 that the Ecuadorian Judgment, or parts of it, existed in
 10 that document as of December 21st, the 28th, presumably
 11 February 1st as information got up to the SATJE Logs, and
 12 then the March 4th date, and then some dates after that.
 13 So, with the datapoints that we have, we have a
 14 document being opened hundreds of times between--on the
 15 lifespan of the document in that particular location, and
 16 the information that we have is the content is, in fact,
 17 parts of the Ecuadorian Judgment. That's the only datasets
 18 points that we have.
 19 Q. And if Mr. Zambrano was opening Providencias and
 20 doing whatever he was doing with Orders in that document in
 21 October before he says he was working on the Judgment and
 22 making Saves, you've got no way to know that that didn't
 23 happen; right?
 24 A. I can only point to the datapoints that I do have.
 25 Q. Okay. All right. So, let's turn to--back to

10:50 1 Mr. Lynch's slides from yesterday, and let's look at Slide
 2 Number 18, if you would, Mr. Racich.
 3 You agree that the edit time on the December 21st,
 4 2010 Providencias was 35.12 hours; right?
 5 A. As of December 21st, yes.
 6 Q. Yeah. And that at that point there were 81 pages
 7 of Judgment text; right?
 8 A. I believe that's correct.
 9 Q. Okay. Now, Mr. Lynch says 94 percent of this text
 10 is unchanged in the Final Judgment. Did you do any
 11 analysis to determine whether that was correct or not?
 12 A. I think I validated it, and it seemed--appeared to
 13 be correct.
 14 Q. So, you agree with the 94 percent of the text as
 15 unchanged in the Final Judgment?
 16 A. I believe so.
 17 Q. Okay. And you would agree that if we assume that
 18 every minute that Providencias was opened was spent typing,
 19 text was entered at this rate at approximately 26 minutes
 20 per page?
 21 A. Give or take, yeah, I believe that sounds correct.
 22 Q. Let's go to the December 28th Providencias.
 23 That's reflected on Slide 19.
 24 And you would agree that the additional text that
 25 came in between December 21st and December 28th, the edit

10:51 1 time during that period was 17.43 hours?
 2 A. Yes.
 3 Q. And during that period of time, 38 additional
 4 pages of Judgment text were entered?
 5 A. I believe that's correct.
 6 Q. And did you validate that 96 percent of the text
 7 is unchanged in the Final Judgment?
 8 A. I believe so.
 9 Q. And if we assume that every minute that
 10 Providencias was opened during that time period somebody
 11 was typing in it, the text was entered at a rate of less
 12 than 30 minutes a page?
 13 A. I believe so.
 14 MR. WHITE: Could we just take a moment.
 15 (Pause.)
 16 MR. WHITE: I have no further questions at this
 17 time.
 18 PRESIDENT VEEDER: Thank you very much.
 19 It may be good to take our mid-morning break now
 20 but it depends on how long your re-examination might be.
 21 MR. EWING: I would appreciate taking a
 22 mid-morning break.
 23 PRESIDENT VEEDER: Then it would be appreciated.
 24 Let's take 15 minutes. We'll come back at 10 past 11:00.
 25 Again, please don't discuss the case or your testimony.

10:52 1 THE WITNESS: Of course.
 2 (Brief recess.)
 3 PRESIDENT VEEDER: Just before we start the
 4 redirect, Mr. White, we had a question for you. You told
 5 us that Ms. Calva had testified during the RICO proceeding
 6 in New York. We have a reference to the direct testimony
 7 C-2387 when she made a sworn declaration, and C-2458,
 8 exhibited in these proceedings. But did she also subject
 9 herself to a deposition, and was she cross-examined?
 10 MR. WHITE: This is Ms. Calva?
 11 PRESIDENT VEEDER: Yes.
 12 MR. WHITE: It's my understanding she submitted a
 13 declaration but that she wasn't either deposed or
 14 cross-examined.
 15 MR. BISHOP: She did not show up at the RICO
 16 Hearing, and so she was not cross-examined and she was not
 17 deposed.
 18 PRESIDENT VEEDER: You need to explain that
 19 because I'm looking at her direct testimony at C-2387.
 20 That's simply a document put in without the witness
 21 attending the trial?
 22 MR. BISHOP: That's correct. She put in a
 23 declaration, a RICO Declaration, but then she did not come
 24 to the Hearing, and so she was not cross-examined and was
 25 not deposed.

11:13 1 PRESIDENT VEEDER: Is that because she couldn't
 2 get a visa?
 3 MR. BISHOP: I doubt it, but I don't know the
 4 answer to that.
 5 PRESIDENT VEEDER: There is some story in the
 6 Transcript that we can see, but we haven't got to the
 7 bottom of it.
 8 We can come back to it later, but she didn't
 9 actually testify in New York?
 10 MR. BISHOP: That's correct.
 11 PRESIDENT VEEDER: Thank you very much.
 12 MR. PATE: There is a story in the Transcript as I
 13 recall.
 14 PRESIDENT VEEDER: At some stage give us the
 15 reference, but I think there are quite a few stories in
 16 this case.
 17 Again, just for planning purposes--we're not tying
 18 you down. Just give us some idea of how long you might be.
 19 MR. EWING: I expect to be less than 15 minutes or
 20 less. It should be short.
 21 PRESIDENT VEEDER: You could be as long as you
 22 like.
 23 MR. EWING: I will try to give it 15 minutes or
 24 less.
 25 REDIRECT EXAMINATION

11:14 1 BY MR. EWING:
 2 Q. Mr. Racich, are you aware that Providencias--one
 3 of the meanings for Providencia is also Sentencia?
 4 A. Even after six years of Spanish, I don't believe I
 5 ever got into the legal parts of it, so I'm not sure.
 6 Q. So, you don't know if it you typed Providencias
 7 into Word Sentencia comes up as one of the meanings?
 8 A. I don't know.
 9 Q. Earlier, Mr. White asked you some questions about
 10 cookies and internet history.
 11 A. Yes.
 12 Q. And if you could turn to--sorry.
 13 And you mentioned other evidence of visits in the
 14 internet history that did not include dates.
 15 A. Yes.
 16 Q. Do you remember that?
 17 A. Yes.
 18 Q. What do you mean by the fact that those entries
 19 did not include dates? What does that tell you?
 20 A. There are certain types of internet history
 21 redirects being one as well as other instances of items
 22 that are recorded in the internet history that don't have
 23 the date field populated, so what we can say is that the
 24 internet history itself shows that those particular sites
 25 are where the objects are that are being accessed--they

11:15 1 were accessed, but we don't have a specific date as to when
 2 it occurred.
 3 Q. And in your Report from November 7, 2014, at
 4 Paragraph 49, you listed a series of Web sites that were
 5 visited that don't have dates, including LEXIS, and a few
 6 others, Cervantesvirtual, Googlebooks and then an
 7 Ecuadorian legal research Web site, but those don't have
 8 dates.
 9 What does that tell you about those particular
 10 entries?
 11 A. What we have is that they were visited at some
 12 point, but we can't pinpoint the exact moment in time that
 13 occurred.
 14 Q. And do you know how often they were visited?
 15 A. I'd have to look to see if there was a hit count
 16 on those particular files, but I don't believe so from
 17 this.
 18 Q. And would the same be true of any other sites that
 19 are listed around this section of your Report about undated
 20 entries?
 21 A. Yes.
 22 Q. Moving to a different subject, you did an analysis
 23 on Mr. Guerra's computer to extract all of the HTML
 24 fragments of e-mail; correct?
 25 A. Yes.

11:17 1 Q. And that was an exhibit in your Report that they
 2 pulled up for you earlier; correct?
 3 A. The March report, yes.
 4 Q. And it was a long list of fragments that you
 5 found?
 6 A. Yes.
 7 Q. Do you remember approximately how many there were?
 8 A. At least a hundred, if I recall.
 9 Q. Now, I don't have that in front of me, so I can't
 10 pull it up for you.
 11 Did you do that same analysis on Mr. Zambrano's
 12 computer?
 13 A. I can't recall. I can't recall right now. I
 14 don't know if we did that exact analysis.
 15 Q. Did you look for HTML fragments like you found on
 16 Mr. Guerra's computer?
 17 A. I believe we did.
 18 Q. And did you find any on Mr. Zambrano's computer?
 19 A. I don't believe we did. We used the same tool,
 20 Internet Evidence Finder in this case. I don't believe we
 21 did.
 22 Q. Mr. White also took you to two entries in--from
 23 Mr. Guerra's e-mails that included a Donziger e-mail
 24 address. Do you remember that?
 25 A. Yes.

11:18 1 Q. The first one was Record 31. That was an e-mail
2 address from Mr. Donziger; right?
3 A. Yes.
4 Q. Was that an e-mail from Mr. Donziger?
5 A. Looking at the text that was surrounding it, it
6 was some part of code. There was no content that appeared
7 there. It was just an e-mail address itself.
8 Again, I only looked at it for the belief period
9 of time that it was on the screen, but there didn't appear
10 to be any content associated around that.
11 And just so we're clear, what the tool does is it
12 attempts to find the beginning of where the fragments that
13 it can interpret are, and then attempts to find the end.
14 It's not always that great at finding the end result of
15 where the content stops, and so, subsequently, there's
16 sometimes a lot of garbage, a lot of extra stuff that's put
17 in, and it makes an attempt to interpret it, but the
18 HTML--the format of HTML is what it's really trying to
19 extract.
20 MR. EWING: And would it assist the Tribunal to
21 have these exhibits up while we talk about them?
22 PRESIDENT VEEDER: Yes.
23 MR. EWING: Would you kindly put those up? We
24 don't have those on our--
25 PRESIDENT VEEDER: Maybe not now, but it might be

11:20 1 useful to have a screenshot of those page or pages.
2 MR. WHITE: Certainly.
3 BY MR. EWING:
4 Q. Thirty-two.
5 Before you do that, looking at this page,
6 Mr. Racich, do you see Mr. Donziger's e-mail anywhere?
7 A. Not within the content here.
8 Q. And when you view the source of this e-mail, what
9 is that showing you?
10 A. It's showing me underlying HTML code plus whatever
11 the software Internet Evidence Finder extracted out in its
12 attempt to reconstruct these fragments of e-mail.
13 Q. So, now if we view the source behind this page,
14 you went down to Donziger, is there anything in here that
15 indicates to you that this is an actual e-mail?
16 A. No, it's just an e-mail address. And you can see
17 around it, you can see "eatyourshare.live.com." You can
18 see it says RPL@hotmail.com, Facebook Mail.com. These are
19 just addresses that exist in this chunk of text.
20 Q. And if we pull up record 226, please.
21 Could you go back to the index.
22 So, on the typed column for record 226, what is
23 that?
24 A. The software interprets this as a contact list, so
25 when it attempted to reconstruct the page, this is the

11:22 1 contacts that was extracted from the fragment.
2 Q. And if we look at that fragment itself, and
3 Mr. Donziger's e-mail address is in there somewhere, what
4 is this? Would you agree with the software that this is a
5 list of contacts?
6 A. It appears to be. It looks like it has the names
7 and the e-mail addresses and certain other metadata
8 information about particular contacts. Presumably from a
9 Hotmail account here.
10 Q. But again, this is a contact list on Mr. Guerra's
11 computer; right?
12 A. That's my--yes.
13 Q. And neither of these documents is an e-mail?
14 A. No, not from what I'm seeing, no.
15 ARBITRATOR GRIGERA NAÓN: Excuse me, if you look
16 at the line above, there is the full name of Mr. Donziger.
17 Does that have any relevance in respect of what we are
18 addressing now?
19 THE WITNESS: So, what it looks like--and I'd have
20 to do more analysis to see exactly how it's broken up, but
21 what it appears is that there are different fields, meaning
22 entries in the contact database, and you've got a name
23 field. It looks like possibly a unique ID field, and then
24 at least the e-mail address itself, and then it moves to
25 the next step. So, it looks like essentially a list of

11:24 1 both the name and the e-mail address for each of these
2 contacts.
3 PRESIDENT VEEDER: It's misspelled. Does that
4 mean anything?
5 THE WITNESS: It means that there is a bad
6 speller.
7 PRESIDENT VEEDER: Okay.
8 ARBITRATOR LOWE: What did you search through the
9 materials which were sent to you for the name of
10 Mr. Donziger? Did you also search under the misspelling of
11 his name?
12 THE WITNESS: I don't believe I did.
13 BY MR. EWING:
14 Q. Mr. Racich, when you receive an e-mail from
15 someone through a program like Hotmail, is that person's
16 address added to your--let me step back.
17 When you send an e-mail to someone like Steven
18 Dozinger (sic), is that person's e-mail added to your
19 contact list?
20 A. Typically it is.
21 Q. So, that would be automatically added?
22 A. Typically, it is.
23 Q. And if I receive an e-mail from someone, is that
24 e-mail added to my contact list?
25 A. Not by default, unless you do a reply.

11:25 1 By default, it is, and otherwise you'd be adding
 2 huge numbers of spam e-mails. The e-mail addresses would
 3 be added to your contacts on a continuous basis.
 4 Q. So, if I e-mailed you for the first time and you
 5 had an e-mail from me, from Greg Ewing, and you replied to
 6 that, you would expect that my name and e-mail address
 7 would be in your contact list as I spelled them; correct?
 8 A. Typically.
 9 Q. If in this case, would you expect--let me take a
 10 step back. In this case, Steven Dozinger (sic) is
 11 misspelled. Does that indicate to you anything about where
 12 this e-mail came from, whether it be from Mr. Guerra,
 13 Mr. Donziger or someone else?
 14 A. Well, if you've got the e-mail address which is
 15 the "SDonziger@gmail.com," and you have a misspelled name,
 16 so that either means that that an e-mail came in that had
 17 that as the contact name and was replied to with that
 18 misspelling; or it indicates, which I think is more likely,
 19 that someone typed in the e-mail address and as far as who
 20 the person was, they misspelled the name. I would think
 21 that's the likely explanation unless someone has a habit of
 22 not having their name correctly on their e-mail, I think
 23 that's the most likely explanation.
 24 Q. So, the two choices are either Mr. Guerra
 25 misspelled Mr. Donziger's name or Mr. Donziger misspelled

11:29 1 or temporary files of the Judgment in between
 2 October 11th--between October 11th and March 4th; correct?
 3 A. Yes.
 4 Q. Where did those temporary files come from?
 5 A. They were tilde files. There was one card file
 6 meaning that the file was carved from unallocated space,
 7 what Mr. Lynch did in type validated but actually used his
 8 numbering system because it made more sense to look at what
 9 he was doing. It looked for the header of the document
 10 file.
 11 And we talked about this with regards to the
 12 books. We basically looked for the book without the index,
 13 and were able to pull out the data of the book, and that's
 14 the--that was one of the instances, and then we had I
 15 believe it was two tilde files, so they're essentially
 16 temporary files that when Microsoft Office opened the
 17 document or PowerPoint or what have you in this case, a
 18 document, what Microsoft Word does is it creates a
 19 temporary file with content that it could save information
 20 to, so if Microsoft Word crashes, which unfortunately
 21 happens, it will allow you to recover certain information
 22 about what you were working on. In this particular case,
 23 those documents were maintained on the computer, and
 24 subsequently we were able to recover data from them.
 25 Q. So, the tilde files, who creates those?

11:27 1 his own name?
 2 A. Well, whoever sent the e-mail address, let's say,
 3 but yes.
 4 Q. Thank you for putting this up. I think we're done
 5 with it for now.
 6 Towards the end of your cross-examination by
 7 Mr. White, he asked you a hypothetical; and in his
 8 hypothetical, Mr. Zambrano created an order on October 11,
 9 2010, when he took the bench; correct?
 10 A. Yes.
 11 Q. And then sometime around February 14, 2011, he
 12 used that same document to paste the Judgment text into it.
 13 A. I don't think I have a hypothetical said that
 14 date, but at some point I think it was the December 21st
 15 date that there was text was being added to the document.
 16 That was in the hypothetical.
 17 Q. Okay. So, the hypothetical--I guess to make it a
 18 little more generic, is the question of whether in a sense
 19 Mr. Zambrano could spoof or fake the computer or you and
 20 Mr. Lynch into thinking that this document started on his
 21 computer on October 11, 2010, and finished on February 14
 22 or March 4th as a complete document, that he could--that he
 23 would use that to fake us all out.
 24 A. I think that was the purpose of the hypothetical.
 25 Q. We have heard Mr. Lynch recovered three snapshots

11:31 1 A. Microsoft Word does.
 2 Q. And are they typically visible on a computer?
 3 A. If you know where to look, you can find them, but
 4 the user doesn't typically have the ability to see them.
 5 Q. So, these are not versions of the file that
 6 Mr. Zambrano purposefully saved. They're just we happen to
 7 have found them. Is that what you're trying to say?
 8 A. Yes. I mean, in fact, we're very fortunate. This
 9 doesn't happen as often as I would like from as a forensic
 10 examiner point of view; when you're analyzing documents, it
 11 was very fortunate to find snapshots like this over the
 12 course of time.
 13 Q. And looking at Mr. Lynch's Table 23 of his--I'm
 14 sorry--of the metadata for the Providencias document--
 15 A. Which report was this?
 16 Q. This is his August 15, 2014 Report.
 17 A. And you said Table 23?
 18 Q. I have the wrong table number.
 19 In his Tables 7 and 8 on Page 28 of Mr. Lynch's
 20 August 15, 2014 Report.
 21 A. Yes.
 22 Q. And looking at the metadata for these files, is
 23 there anything else here that indicates that this document
 24 was opened--sorry, which contradict the hypothetical that
 25 Mr. White had presented?

11:33 1 A. Again, these, as we just discussed, are temporary
 2 files that Microsoft Word creates during the process of
 3 editing a document, so for someone to do this, they would
 4 have to know that this temporary file was--as a
 5 hypothetical, as someone trying to game the system, so to
 6 speak, someone would have to know that these temporary
 7 files were, in fact, being created, know that they were
 8 going to be maintained and then know they were going to be
 9 recoverable. To be frank, the easier thing to do is to not
 10 have them there at all.
 11 Q. When you looked at--do you address this in your
 12 Reports at all?
 13 A. In what way?
 14 Q. You didn't address this hypothetical; right?
 15 A. Not my reports, no.
 16 Q. Is there a reason why you didn't?
 17 A. A combination of things. One, it doesn't seem
 18 plausible from a realistic point of view, as well as the
 19 fact that there's evidence that the document was--the
 20 Providencias document living in this particular path is
 21 opened hundreds of times over the lifespan of the document.
 22 That's not consistent with someone opening up a document
 23 and copying data in at the last minute.
 24 Q. And you mentioned that it's opened hundreds of
 25 times. Are you just looking at Table 8, or is there

11:34 1 something else you're referring to?
 2 A. I seem to recall an exhibit that my last report in
 3 Exhibit 3 there's a list of internet history, and that
 4 shows how often the Providencias, at least in specific
 5 moments in time, had been opened on the Old Computer and
 6 the New Computer.
 7 Q. And you talked about that in your Report?
 8 A. Yes.
 9 Q. And if you could turn to Paragraph 33 of your
 10 November 7, 2014 Report.
 11 A. Which paragraph? I apologize.
 12 Q. Paragraph 33. Page 9 of your November report.
 13 A. Yes.
 14 Q. Is this what you're referring to?
 15 A. Yes.
 16 Q. And how does Paragraph 33 coincide with the
 17 information you see in Table 8 of Mr. Lynch's Report?
 18 A. What it tells us is all we have are the snapshots
 19 in time. We have this December 21st snapshot in time,
 20 the 28th snapshot in time. What we have is that we can't
 21 tell exactly definitively whether or not the content of the
 22 text was copied on to Mr. Zambrano's computer or any
 23 other--we don't have any evidence to show that this came
 24 from any other location. All we have is the data points
 25 that we have.

11:36 1 Q. But you--okay.
 2 MR. EWING: No further questions.
 3 PRESIDENT VEEDER: We have no questions, and so
 4 you may leave the table, but we need to discuss with
 5 counsel where we go from now as regards the expert
 6 testimony. So, please stay in the room, but you're no
 7 longer a witness, and we thank you for coming to assist the
 8 Tribunal.
 9 THE WITNESS: I will do. Thank you.
 10 (Witness steps down.)
 11 PRESIDENT VEEDER: Well, we've come to the end of
 12 the expert testimony on these particular issues. We've had
 13 the Expert of the Tribunal listening and following
 14 testimony as she has already been studying the written
 15 materials, and the question is whether we make further use
 16 of the Expert to the Tribunal by enlarging her existing
 17 Terms of Reference. Those Terms of Reference were limited
 18 to taking part at this Hearing on an informed basis. What
 19 we'd like to invite the Parties to do is to consider
 20 whether we should do that, and if we should, what
 21 additional Terms of Reference we would have to specify in
 22 such terms of reference? We don't ask you to respond
 23 straight away. She'll be here until 2:00 tomorrow, but we
 24 would like to resolve this particular matter before 2:00.
 25 Is that a possibility for the Claimants? We ask

11:38 1 the Claimants first.
 2 All we're asking at the moment is that you
 3 consider it. You don't have to respond formally.
 4 MR. BISHOP: Yes, we will consider it. We will
 5 discuss it this evening and come back with our position
 6 tomorrow, if that's all right.
 7 PRESIDENT VEEDER: Thank you.
 8 And the Respondent?
 9 MR. EWING: Mr. President, not surprisingly, we
 10 think it's a great idea. We will also consider it and get
 11 back to her tomorrow--get back to you tomorrow.
 12 PRESIDENT VEEDER: What we'd like you to do is to
 13 consider it obviously separately, but if you can consider
 14 it together to see if you can agree or if you disagree, why
 15 you disagree, and facilitate ourselves tomorrow morning,
 16 but we'd like, as I said, to get an order settled if we do
 17 make an order before 2:00 tomorrow.
 18 MR. EWING: Of course.
 19 PRESIDENT VEEDER: Thank you. Well, we'll move on
 20 to the next witness.
 21 MR. WHITE: President Veeder, before we do that,
 22 to tie up some loose ends on the Experts, one is that the
 23 Tribunal asked for exhibit numbers to Mr. Lynch's--for the
 24 other exhibit numbers for Mr. Lynch's RICO testimony.
 25 They're Claimants' 2383--that's trial testimony--and

11:39 1 2457--that's deposition transcript. So, 2383 and 2457 from
 2 Claimants Exhibits for the Transcript.
 3 The second item is that we had Mr. Lynch take
 4 screenshots of materials that he used in his opening or his
 5 direct presentation yesterday. We have those now and can
 6 hand them up.
 7 PRESIDENT VEEDER: I think we've just been given
 8 them. They've been marked C-2154, and it consists of three
 9 pages.
 10 MR. WHITE: That's correct. But there is also an
 11 additional item there. It consists of two items.
 12 And then the third item is there were some
 13 materials that were used during Mr. Racich's
 14 cross-examination that we should hand up. We don't have
 15 those ready yet, but we will provide them separately.
 16 PRESIDENT VEEDER: I have just been given C-2516
 17 and C-2515.
 18 MR. WHITE: Yes, those are the items from
 19 Mr. Lynch's presentation yesterday.
 20 PRESIDENT VEEDER: I see.
 21 MR. WHITE: There were some items that were used
 22 with Mr. Racich yesterday afternoon and this morning where
 23 we were working with native files, and we'll provide
 24 screenshots of those as soon as we can get those together.
 25 PRESIDENT VEEDER: We'll come back to those later

11:42 1 when you print them out.
 2 MR. WHITE: Yes.
 3 PRESIDENT VEEDER: For the moment, can we ask the
 4 Respondent. Do you have any objection to these exhibits
 5 going in as C-2154, C-2515 and C-2516?
 6 MR. EWING: We don't have any objections to them
 7 as demonstratives from Mr. Lynch's presentation.
 8 PRESIDENT VEEDER: Thank you very much. We'll
 9 admit them with these references, and we'll come back to
 10 the other documents later.
 11 MR. WHITE: Thank you.
 12 PRESIDENT VEEDER: Anything else before the next
 13 witness?
 14 MR. WHITE: No, sir.
 15 PRESIDENT VEEDER: Anything else from the
 16 Respondent? Nothing else?
 17 MR. EWING: Not at this time.
 18 PRESIDENT VEEDER: Let's go to the next witness.
 19 JOHN A. CONNOR, CLAIMANTS' WITNESS, CALLED
 20 PRESIDENT VEEDER: Mr. Connor, you will find
 21 somewhere on the table a form of words on a declaration.
 22 And if you're willing to do so, we'd ask you to state your
 23 full name and then to read the words of the Declaration.
 24 THE WITNESS: Yes, sir.
 25 John Anthony Connor.

11:46 1 I solemnly declare upon my honor and conscience
 2 that I speak the truth, the whole truth, and nothing but
 3 the truth, and that my statement will be in accordance with
 4 my sincere belief.
 5 PRESIDENT VEEDER: Thank you.
 6 There will first be questions from the Claimants.
 7 MS. RENFROE: Thank you, Mr. President, Members of
 8 the Tribunal.
 9 DIRECT EXAMINATION
 10 BY MS. RENFROE:
 11 Q. Mr. Connor, we are now moving from the forensic
 12 portion of this Track 2 Hearing to the environmental
 13 discussion; and, with that transition, would you please
 14 tell this Tribunal what your role was in the Lago Case and
 15 the subject matter of your testimony today?
 16 A. Yes, I was one of the Judicial Experts on behalf
 17 of Chevron in the Lago Agrio Case, and I also wrote reports
 18 in response to Mr. Cabrera's Reports.
 19 Q. And what will be the subject matter of your
 20 testimony today?
 21 A. I'll be talking about the environmental
 22 remediation work that was done by TexPet as well as the
 23 current environmental conditions in the block and the
 24 issues those posed with regard to human health.
 25 Q. Have you prepared four reports for this

11:47 1 arbitration case?
 2 A. Yes.
 3 Q. Specifically your Report of September 2010?
 4 A. That's correct.
 5 Q. June 2013?
 6 A. Yes.
 7 Q. May of 2014?
 8 A. Yes.
 9 Q. And January of 2015?
 10 A. Yes.
 11 Q. And are those reports sitting--a copy of those
 12 Reports sitting on the table there? Can you confirm those
 13 are your Reports?
 14 A. Yes, they are.
 15 Q. Have you provided any corrections to those
 16 Reports?
 17 A. Yes, I have.
 18 Q. And have you provided or prepared an errata sheet
 19 documenting those corrections?
 20 A. Yes, there are a number of minor corrections.
 21 Q. All right. Now, with those corrections, do these
 22 Reports accurately and completely contain your testimony
 23 and the opinions you have formed about your work in this
 24 case?
 25 A. Yes, they do.

11:49 1 Q. Have you prepared a presentation to help explain
 2 your testimony to the Tribunal?
 3 A. Yes.
 4 MS. RENFROE: With the permission of the Tribunal,
 5 may Mr. Connor proceed with his presentation?
 6 PRESIDENT VEEDER: Of course.
 7 BY MS. RENFROE:
 8 Q. Thank you, Mr. Connor.
 9 A. Hello. I'm John Connor. I think you know that by
 10 now, and I'm very pleased to be here to talk to you about
 11 the work that I've done over the past 12 years in the
 12 former Petroecuador-Exxon Concession. As you know, I was
 13 one of the JI Experts that worked on the Cabrera case and I
 14 worked on this as well.
 15 What I'm going to be talking about today is the
 16 data. There have been thousands of environmental samples
 17 collected and analyzed at facilities throughout the former
 18 Concession area. What I'm going to talk about is what
 19 those data tell us with regard to the TexPet Remediation
 20 Project, the current environmental conditions, and health
 21 risks posed, if any, to the good people that work and live
 22 in this area.
 23 At the same time, to the degree I can, I'm going
 24 to try to help you understand why two groups of experts
 25 have looked at the same data and come up with what seem to

11:51 1 Government organizations, and it involves developing
 2 improved methods for investigation of sites, for assessment
 3 of risks, and for remediation of those sites.
 4 Today, I'm going to talk about five issues that
 5 have been documented in my Reports, and I'm going to go
 6 through these opinions now and remind you of what my
 7 findings have been.
 8 First is the TexPet remedial action program of '95
 9 to '98. The data show that that program was completed in
 10 accordance with specifications spelled out in the Remedial
 11 Action Plan, RAP, the RAP.
 12 Second, the Judicial Inspections that were
 13 conducted in 2003 to 2009. The results of those Judicial
 14 Inspections showed that the RAP had been properly
 15 implemented but there were limited non-RAP impacts that
 16 remained to be addressed and by non-RAP impacts I mean
 17 issues that weren't included in the RAP and had not yet
 18 been addressed.
 19 The Ecuador Experts, and by Ecuador Experts, I
 20 mean the Parties that have been--working in this BIT
 21 proceeding, have done additional work in 2013 to 2015, and
 22 I will show you that the work that they have collected is
 23 in good agreement with the prior work by the Chevron
 24 Experts in the Judicial Inspection. Certain limited
 25 impacts remain to be addressed under the current

11:50 1 be completely opposite conclusions. At least I'll do my
 2 best in that regard.
 3 A bit about my background. I'm an environmental
 4 engineer with 35 years of experience in this field. I'm
 5 the President of a company called GSI Environmental. We're
 6 a company that works around the world doing the type of
 7 work that's exactly what we're going to be talking about
 8 today. That's environmental investigation, environmental
 9 risk assessment, and environmental remediation of pollution
 10 impacts. We've worked for a lot of industrial companies
 11 around the world, and we also worked for a lot of--oh, I'm
 12 sorry.
 13 PRESIDENT VEEDER: My fault. I should have warned
 14 you that every word is being written down in English, but
 15 it's also being interpreted into Spanish and written.
 16 THE WITNESS: I talked to you about that earlier.
 17 I will slow down.
 18 PRESIDENT VEEDER: You have to slow down a lot.
 19 And again, we have to remind people not to overspeak
 20 because they can't translate and transcribe simultaneous
 21 speech.
 22 THE WITNESS: Okay. We have also worked for State
 23 oil companies such as Petroamazonas or Petroecuador in
 24 various countries, and one of the things our company does a
 25 lot of is research and development. It's mostly for

11:52 1 regulations.
 2 Finally, health risk--next, I should say. The
 3 health risks, the data that we have show that, yes, there
 4 are impacts to be addressed but these impacts do not pose a
 5 risk to public health in this area.
 6 And finally, the Judgment. The Judgment is not in
 7 agreement with the data that was collected at these sites.
 8 And I will point that out as I go through my presentation.
 9 Let's start with the TexPet remedial action
 10 program.
 11 The TexPet remedial action program begins in 1995
 12 with a settlement agreement which is signed by the Parties
 13 in May of that year. Under that Agreement, TexPet is
 14 assigned work at 157 sites, one or more tasks at each site.
 15 And those tasks included pit remediation at 108 of those
 16 sites, cleanup of soils and spills at 27 sites, plugging
 17 and abandonment of wells, repair tank dikes and
 18 installation of produced water equipment at a number of
 19 other sites. Based on that general Scope of Work, a
 20 Remedial Action Plan is issued in September 1995. A
 21 Remedial Action Plan, often called a RAP, RAP, is a
 22 standard part of our field. What it does, it says what
 23 you're going to do, how you are going to do it, and how do
 24 you know it's done right.
 25 It's very similar to a skilled contractor working

11:53 1 at your home who is going to fix this door and paint it
 2 this color. Well, this particular Remedial Action Plan
 3 tells TexPet that they're going to work at these sites and
 4 remediate these pits. I believe that Ms. Renfroe showed
 5 you a list, one of the tables from the Remedial Action Plan
 6 which gives a very specific list of the pits that are to be
 7 remediated and those lists were signed and initialed by all
 8 the Parties.
 9 There are also reasons why pits weren't included
 10 in the RAP. Well, you could go to a site that was on the
 11 list of the Settlement Agreement but it would remain in
 12 place because it wasn't assigned to TexPet. Those reasons
 13 are listed on this slide.
 14 I will talk about the latter two reasons. Pits
 15 constructed or closed after June 30, 1990, that would be
 16 pits that were closed by Petroecuador after the operations
 17 had transferred from TexPet to Petroecuador. If they had
 18 been closed by Petroecuador, TexPet was not required to
 19 re-enter and remediate those pits.
 20 (Pause.)
 21 A. The HBT Agra audit of 1993 and the Fugro audit of
 22 1992 tell us that there were a large quantity of pits that
 23 were closed by Petroecuador between 1990 and 1992 by
 24 covering them with earth. Those pits--and we will see some
 25 of them today, were not assigned to TexPet.

11:55 1 Pits that were closed before June 30, 1990, were
 2 also addressed in the RAP. Those pits that had been
 3 properly remediated and had no visible impacts at that time
 4 were not assigned to TexPet. Some of them were, and during
 5 the course of the RAP, more pits were assigned, a total of
 6 25 pits were added to the RAP during the course of its
 7 implementation.
 8 Let's look on the ground to see what the RAP
 9 really means when you measure it against a site, so here we
 10 see an aerial satellite image of the Shushufindi 45A well
 11 site. In the center of the area I put a white dotted line
 12 around the platform it's called. It's a large area of
 13 pavement, of gravel, impacted gravel and rock, and there is
 14 a symbol in there that indicates the well, the oil well
 15 itself. At this site at the time of the RAP, there were
 16 four pits present at the site. Two of these pits were
 17 assigned to TexPet for remediation, Pits 3 and 1A, and they
 18 were called RAP pits. And then two of the pits were not
 19 assigned to TexPet. TexPet was not required to remediate
 20 these pits. These were pits specifically called out as
 21 non-RAP pits for some of the reasons you saw on the prior
 22 slide.
 23 And in addition, any other conditions that may
 24 have existed at that time or in the future at this site
 25 were not assigned to TexPet. TexPet's assignment for its

11:56 1 work was Pit 3 and Pit 1A and nothing beyond that.
 2 Well, the RAP didn't just tell TexPet what they
 3 needed to clean up. They told TexPet how they needed to
 4 clean up. And here in this diagram I show you an eight
 5 step process that was spelled out in the RAP document. I
 6 discussed this in my Reports and for the interest of time,
 7 I won't repeat it here. I will just point to you one of
 8 the eight steps. That's Step Number 6, and that slide we
 9 see representatives from Universidad Central of Quito who
 10 were contracted to come to the site and before the pit was
 11 remediated and closed, to test that remediated material, to
 12 see if it in the laboratory met the cleanup criteria upon
 13 which the Parties had agreed in the RAP.
 14 Now, at this time in Ecuador, there were no
 15 regulations in place that mandated specific cleanup
 16 criteria. Those are concentration limits in the soil.
 17 Consequently, the Parties, as many other Parties did at
 18 that time, agreed among themselves in a contract what those
 19 cleanup criteria would be.
 20 The team from Universidad Central collected those
 21 samples, they analyzed them in their laboratory. If they
 22 met those standards, the remediation was finished and the
 23 pit was backfilled. If they didn't, further work was
 24 needed.
 25 This process was carefully overseen by

11:58 1 representatives of the Government of Ecuador. Inspectors
 2 from the Ministry of Energy and Mines, Petroecuador and
 3 Petroproducción visited these sites at critical junctures
 4 and the course of their work, was documented in a series of
 5 Actas or Declarations that memorialized their findings.
 6 There is three types of Actas. First, RAT Actas.
 7 These were the day to day observations of the inspectors,
 8 if they noted deficiencies in the work or things that
 9 needed to be improved, they recorded those in those Actas.
 10 As you review those Actas, you will recognize the vigorous
 11 oversight and the attention paid to detail to see that this
 12 work was done right. When it was done right, it was
 13 memorialized in an approval Acta. These were issued piece
 14 by piece for different sets of pits. Each one that came
 15 out would say these sites are finished, this dozen pits are
 16 finished, until eventually all the work was finished, and
 17 it was memorialized in a Final Acta issued in
 18 September 1998 and signed by all the Parties saying the
 19 work had been done, it had been done satisfactorily, and
 20 the project was finished.
 21 We now jump to 2003 to 2009, when a process called
 22 Judicial Inspections is undertaken in the Lago Agrio Case.
 23 I was one of the Experts in that case. And as an expert,
 24 we were asked to address three technical issues:
 25 First, was the TexPet remediation program properly

11:59 1 completed?
 2 Secondly, what are the environmental conditions
 3 today?
 4 And, third, do those conditions pose a potential
 5 risk to human health?
 6 As part of our work, we received a set of
 7 instructions from the Lago Court, and these instructions
 8 were called the Court Terms of Reference, and I will tell
 9 you some of the important things it told us about how to do
 10 our job.
 11 First, we were instructed to respond to the
 12 questions by each Party. Chevron's representatives would
 13 pose questions, the Plaintiffs' representatives would pose
 14 questions, and we were to faithfully make our effort to
 15 respond to those.
 16 In addition, we were instructed by the Court to
 17 follow the jointly developed sampling analysis plans.
 18 These plans specified that we use certain standard
 19 scientific Protocols to collect samples and analyze them in
 20 the lab, specific methods that were to be used and the
 21 Parties have agreed upon. The Chevron Experts and I,
 22 myself, followed these.
 23 There has been a lot of talk about
 24 Pre-Inspections, and let me explain some of that.
 25 Pre-Inspections were done by both Parties. They were done

12:02 1 reconnaissance of the site and they had identified areas of
 2 interest, areas where there could be environmental impacts
 3 that they thought warranted investigation. They marked
 4 these with the colored flags we see on this site.
 5 I also worked with Charles Calmbacher as a
 6 Plaintiffs' Expert and José Robalino. And in each case,
 7 when I arrived at the site, those gentlemen had conducted
 8 very thorough reconnaissance. Their own Pre-Inspection
 9 because they needed that information just as we did.
 10 Let me explain something about the Pre-Inspections
 11 that I believe is important to understand because these
 12 terms have been used and I believe they have been
 13 misunderstood. I'm going to talk about the concept of
 14 perimeter sampling as it was done in the Pre-Inspection.
 15 We call this step-out sampling or perimeter sampling, and
 16 let's get an understanding of the task of the
 17 Pre-Inspection team. Here is some information about the
 18 Pre-Inspection at the Shushufindi 21 well site.
 19 When the Pre-Inspection team came to the site,
 20 they had only a crude sketch such as this to understand
 21 where the former remediated pits were. These are pits that
 22 had been removed, cleaned, compacted and vegetated, and
 23 they were very difficult to see or find. Consequently, the
 24 process that would be followed would be, first, to estimate
 25 where that pit might be on the ground, and then to go to

12:00 1 by Chevron and they were done by the Plaintiffs. And why
 2 were they done? They were essential to doing the work of
 3 the Judicial Inspection. These were complex sites. Texaco
 4 hadn't been at these sites for over 20 years approximately,
 5 and there was a lot of work that needed to be done in a
 6 very short amount of time. In order for us to do Judicial
 7 Inspections efforts to complete that work, both sides
 8 needed to have background information, and that background
 9 information was collected in a process called
 10 Pre-Inspection.
 11 The assignment of the Pre-Inspection team included
 12 general site layout, locating closed pits and open pits and
 13 spills, locating drinking water resources so they could be
 14 sampled and locating any surface water bodies near the
 15 site.
 16 At the top of this page, I show the Chevron PI
 17 sampling team at Shushufindi 21 well site in January 2004,
 18 and the bottom right-hand corner, there are some other
 19 important photos. Those are photos taken at the
 20 Shushufindi Norte production station during the time of
 21 Judicial Inspection. I was the designated Expert on behalf
 22 of Chevron at that location.
 23 The designated Expert on behalf of the Plaintiffs
 24 was Oscar Davila, and at the time of that inspection, Oscar
 25 Davila and his team had conducted a very thorough

12:03 1 that suspected location and attempt to drill a boring into
 2 that pit, that former pit and find it.
 3 You can find these materials by looking at the
 4 soil that comes out of that boring. Remediated material is
 5 a clay material with a dark stain and a petroleum odor, and
 6 sometimes it has an oil sheen. If they saw that, they knew
 7 that they were in the pit. Then they would do what's
 8 called step-out borings, and here is an example. They step
 9 away and drill another hole, and they step away and drill
 10 another hole. I show those as two and three on this
 11 diagram. If they get out of the material and they see
 12 clean soil without the oil stain, they know they found the
 13 edge of the pit, and here I've illustrated, they now have
 14 confidence at least on one side of the pit.
 15 This process is conducted in the other directions
 16 until they believe that they have located and confirmed the
 17 location of that remediated pit. That's the work that you
 18 see being done on the video that was shown during the
 19 Ecuador opening. That's what the gentlemen are conducting.
 20 It can be a frustrating process because it can be difficult
 21 to find the edge of those pits, but when they do find them,
 22 those green dots are reported to the Judicial Inspection
 23 Expert so that that person also can efficiently find the
 24 pit and sample that pit during the Judicial Inspection
 25 itself.

12:05 1 There have been a number of suggestions that the
 2 work done by the Chevron Judicial Inspection teams and the
 3 Pre-Inspection teams was untoward, it was designed to hide
 4 the pits, to find clean areas and avoid the contaminated
 5 areas. I can tell you as a person that conducted this work
 6 in conjunction with other environmental professionals, that
 7 is absolutely, absolutely not true.
 8 In my 2013 Report, I provided you with this table,
 9 and I have a copy of it here with me. It's several pages
 10 long, and what I have done is lined up the features of the
 11 Pre-Inspections with the features of the Judicial
 12 Inspections to show you that when there was a problem found
 13 in the Pre-Inspection, it was investigated in the Judicial
 14 Inspection, and it was reported in that report, either
 15 Judicial Inspection Report or the Rebuttal Report. Those
 16 data were presented. And that's very important. It's very
 17 important because the data show--regardless of what has
 18 been said that, in fact, the work was done properly and
 19 faithfully.
 20 I hope that sets this aside, but if there are
 21 questions from the representatives of Ecuador, I'm happy to
 22 discuss that, certainly.
 23 Now we're at the Judicial Inspection itself. I'm
 24 there with my sampling team, the Plaintiffs' Expert is
 25 there with their sampling team, the Judge is there with the

12:06 1 representatives of both Chevron and the Plaintiffs, and
 2 questions are posed. Again those questions: Was the
 3 remediation proper, what are the current conditions, are
 4 there human health risks? And to answer those questions on
 5 a site-specific basis, it's required of both Parties to
 6 collect samples. We worked together, we worked openly, we
 7 see each other working, we sign our sampling reports.
 8 What work did we do? The Chevron sampling team
 9 commonly conducted this type of sampling.
 10 First, RAP pits, if they were present, were
 11 sampled to determine if they met the standards. Perimeter
 12 soil samples were collected to determine if the impacts
 13 that were on the site extended beyond it. These perimeter
 14 samples weren't always perfect. Different experts did
 15 different degrees, but in whole they were sufficient to
 16 tell us that the impacts we found on the property did not
 17 extend beyond that area.
 18 Drinking water sample--drinking water wells that
 19 were in the area were sampled. Surface water was sampled
 20 that was nearby. And if requested by the Court, the
 21 non-RAP pits were also sampled and tested. The documents
 22 regarding and memorializing this includes the JI Acta
 23 itself, the JI Report put out by the Expert, and in some
 24 cases a companion Rebuttal Report, such that the JI Report
 25 and Rebuttal Report need to be observed in concert to

12:07 1 understand the full scope of the work.
 2 Well, what do we find? First, was the TexPet RAP
 3 satisfactorily completed? The Chevron JI Experts drilled,
 4 sampled, and tested 59 RAP pits at 56 JI sites; and, in
 5 those cases, they found that a pit that had looked like the
 6 image on the left-hand side of the screen in 1995 today at
 7 the time of the JI looked like the image on the right-hand
 8 side of the screen.
 9 The material, the pit had been treated and
 10 solidified and capped and revegetated according to the
 11 eight step process. And samples removed from inside that
 12 pit of the remediated material met the RAP criteria based
 13 on laboratory tests.
 14 What do these pits look like underground? Under
 15 ground, these pits are filled with soil, with compacted
 16 soil, very much like the soil that surrounds them. At the
 17 base of that former pit, you will find what we call
 18 remediated material. These were the oily sediments in the
 19 pit that have been mixed with soil and cementing agent to
 20 form a solid mass, a solid firm mass that has a petroleum
 21 stain and odor and perhaps a sheen but will not release its
 22 petroleum to the environment.
 23 Atop this remedial material was placed a clay soil
 24 cover of between half a meter to 1.5 meters thick, and on
 25 top of that, top soil to support vegetation.

12:09 1 So, when you see these sites, that's what's under
 2 ground. It is a former pit that's filled with compacted
 3 solidified material.
 4 When we went to these sites, we found that the
 5 remediated pits that were listed in the RAP had been
 6 faithfully remediated. But we also saw at that time many
 7 non-RAP pits that still had not been addressed by
 8 Petroecuador. Now, since that time, many of those have
 9 been addressed. Petroecuador initiated a remediation
 10 program in 2007, and they have remediated hundreds of pits
 11 in this area. This is one of the issues that I pointed out
 12 that are in conflict with the Judgment. Regardless of how
 13 you estimate the number of pits, you need to recognize that
 14 that number is diminishing on a daily basis. TexPet
 15 remediated many of those pits, and Petroecuador has
 16 remediated many pits, but the Judgment does not consider
 17 the fact that many of these pits have been treated and are
 18 not present, and do not require further remediation.
 19 Let's move on.
 20 In the Judicial Inspection, we were also asked to
 21 sample the environment and determine what those
 22 environmental conditions were at that time. I'm going to
 23 talk about several environmental media such as soil. This
 24 plot shows the results of 1,007 soil samples that were
 25 collected during the Judicial Inspection process and

12:10 1 analyzed by TexPet by the methods in the sampling analysis
 2 plan. These results show that 93 percent of those samples
 3 met the international criteria in effect at the time.
 4 And if we take that same data and we compare it to
 5 current Ecuadorian criteria for soil cleanup, criteria that
 6 were issued in 2001, 87 percent meet those criteria.
 7 What does this tell us? It tells us, as I've said
 8 in my Reports, that there are limited areas that require
 9 attention today. They're not RAP areas. They were areas
 10 that were excluded from the RAP, but there are limited
 11 areas, as we've said throughout our Reports that do require
 12 attention to meet current standards.
 13 Drinking water, another medium. Drinking water
 14 was perhaps the most important medium that we sampled and
 15 tested with regard to human health. Why? Because people
 16 drink this water. And if there is contamination in that
 17 water, it is a direct issue for human health. I'm showing
 18 you in this image a typical hand-dug water well that was
 19 found in rural areas at houses. The image on the
 20 right-hand side is a 1 meter diameter hole that's hand dug
 21 to a depth of approximately six to 8 meters below ground.
 22 It stays open on its own because it's dug into clay soils.
 23 On the left-hand side, we see a typical structure
 24 and a bucket that's lowered into the well to extract the
 25 water.

12:13 1 many people, in the city such as Sacha and Shushufindi and
 2 others. 100 percent of those public water supply systems
 3 met drinking water criteria for petroleum compounds,
 4 100 percent. They were not impacted by TexPet, they are
 5 not impacted by Petroecuador. But the Judgment has stated
 6 that TexPet is to pay \$150 million to replace all of these
 7 systems. These systems do not need to be replaced.
 8 Surface water was another medium that we sampled
 9 at the sites during the Judicial Inspection. At the top
 10 right-hand side, I show you a typical stream that you may
 11 see when you visit these sites. They are near many of the
 12 well sites. It's a shallow stream, perhaps one to
 13 two meters wide, usually 30 centimeters deep. When these
 14 were present, they were sampled. Again, the results under
 15 WHO and U.S. EPA, 99 percent of those streams met those
 16 criteria--of those samples, I should say. And similarly
 17 they meet the criteria of today that published in Ecuador
 18 after 2003.
 19 There is a small number of surface water samples
 20 that don't, and each of those was associated with an active
 21 wastewater discharge by Petroecuador that occurred at three
 22 or four sites.
 23 Let's move on to today. 2013 to 2014--'15, excuse
 24 me. Ecuador Experts have returned to these--some of these
 25 same sites to validate or check the work that was done by

12:12 1 There is one other important thing to note about
 2 this well. That is lacks a sanitary seal. There is no
 3 seal to prevent surface water and rain water from entering
 4 this well and carrying with it vegetative debris and animal
 5 waste. And that presents a serious problem with regard to
 6 bacterial contamination.
 7 520 samples were collected of drinking water from
 8 throughout the Concession Area during the Judicial
 9 Inspection. And what did we find in those data?
 10 99 percent of those samples that were collected at every
 11 site met World Health Organization and U.S. EPA drinking
 12 water criteria. In preparing that same data, the current
 13 Ecuadorian drinking water criteria, 98 percent met. There
 14 are not impacts, widespread impacts, from oilfield
 15 operations on drinking water in this area, not by TexPet,
 16 not by Petroecuador.
 17 But as we see on the far right-hand side, there
 18 are impacts from fecal coliform that are associated with
 19 animal waste contamination of those wells. This is a
 20 serious health problem.
 21 There is one other very important thing with
 22 regard to the Judgment. During the Judicial Inspection
 23 process, Chevron sampled 31 public water supply systems
 24 throughout the Concession Area. These are deeper wells
 25 that pump water and distribute it to local communities,

12:15 1 Chevron during the Judicial Inspections. There has been a
 2 very active exchange, a very complex exchange of
 3 information between the two groups of experts. And as I
 4 mentioned before, I suspect the Tribunal is faced with the
 5 quandary of determining why two groups of experts are
 6 looking at the same data and saying very different things.
 7 In my most recent reports, I made an effort to
 8 simplify this discussion by putting these discussions into
 9 two categories. One, the things that we agree upon and,
 10 two, the things that we don't agree upon.
 11 What do we agree about? We agree that there are
 12 unaddressed non-RAP pits and spills that still require
 13 remediation today to meet the current Ecuadorian standards.
 14 There is no disagreement among the Parties. Those areas,
 15 whether they're spills or pits or contaminated sediments,
 16 need to be addressed to meet those standards. But we
 17 disagree on everything outside those areas.
 18 And to help you understand the basis for that
 19 disagreement, I'm going to talk about three different
 20 concepts, three different factors, that may help clarify
 21 that disagreement. I'm going to talk about TexPet-only
 22 sites, I'm going to talk about the applicable criteria used
 23 by the Parties, and I'm going to talk about the extent of
 24 impacts and migration.
 25 Let's start with TexPet-only sites.

12:16 1 This is a chart from my Report of 2015. It's
 2 Exhibit A, and there are a great many of documents that are
 3 provided in Appendix C to support this. This is directed
 4 towards the issue of TexPet-only sites.
 5 Okay. And so is this slide. On this diagram, I
 6 have summarized the information as little dots. On the
 7 left-hand column, I've listed all the sites that were
 8 investigated by the Ecuador Experts. And incidentally, the
 9 sites that I've highlighted in yellow are the only sites
 10 that were in the Judicial Inspection and that could have
 11 been considered by the Lago Court.
 12 Then, across the top, I have listed different
 13 activities that could change the environmental conditions
 14 at a site. Oil spills that have occurred. Pit closure
 15 remediation by Petroecuador changes the pit count.
 16 Workovers. Workovers are the repair of a well in which the
 17 equipment from the well is removed and it can generate oily
 18 waste materials. If it's properly handled, it has no
 19 Environmental Impact. But if it's not, it can have an
 20 Environmental Impact. And flares.
 21 Let's look at some examples of this. And why do
 22 we care? Why do we care that this may have happened?
 23 Because, under the Judgment, it is assumed that any
 24 conditions that are observed today are the responsibility
 25 of TexPet. And many of those conditions that exist today

12:17 1 are not--they're not associated with TexPet operations, but
 2 they're associated with operations that have happened over
 3 the past 25 years.
 4 Here is three examples. This is a pipeline spill
 5 that was observed in March 2006 at the time of the Judicial
 6 Inspection at the Guanta 6 well site. That is a flow line
 7 that carries the oil and water from the well to the central
 8 station. It ruptured and resulted in a large oil stain on
 9 the ground in the surrounding area. Just below that, on
 10 the left-hand side is what I observed at the Lago Agrico 1
 11 well site in January of 2004. There had been a workover of
 12 this well immediately before my arrival. The equipment had
 13 been removed from the well, and a lot of oily waste was
 14 generated. It wasn't properly contained. Rather, it was
 15 placed in an open excavation and covered with dirt. This
 16 is not a proper environmental management or workover, and
 17 it does result in Environmental Impact.
 18 The right-hand side, it illustrates a flare upset
 19 that occurred due to an operator error at the Aguatico
 20 production station by a Petroecuador employee on
 21 November 2005 during the Judicial Inspection. In this
 22 image we see crude oil emanating under great pressure from
 23 the gas flare. This is a very unusual and a very dangerous
 24 condition, and it also creates some Environmental Impact,
 25 clearly, as this oil spreads across a large area on the

12:19 1 ground.
 2 I observed this same condition at most of the 18
 3 production stations that I visited at that time.
 4 Oops--ah, there it is. Sorry. Another important
 5 factor is the expansion of the field. This is an active
 6 productive oilfield, and it has changed dramatically since
 7 1990. This is not the same oilfield that TexPet left. For
 8 an example of that, I'm showing you the Shushufindi 13 well
 9 site as it looked in 1990, and that's how it looked when I
 10 visited that well site in 2004 as well. But now in 2013,
 11 we can see that that well platform has been dramatically
 12 expanded. There are new oil wells, there is new equipment,
 13 it is not the same oilfield as it was long ago. And there
 14 I've superimposed the old well platform, so you can see the
 15 difference.
 16 Another big, important factor with regard to
 17 understanding the provenance of current Environmental
 18 Impacts is the issue of pits closed by Petroecuador after
 19 June 1990. I'm showing you an aerial image of the Lago
 20 Agrico 2 well site, Pit Number 3. The Ecuador Experts
 21 understood that this pit was associated with activities by
 22 TexPet, that it had been closed by TexPet before June 1990.
 23 But the actual data, the photographic evidence, show us
 24 that's not correct.
 25 Here is an aerial image from September 1985, and

12:20 1 we can see Pit 3 as a large black area with the yellow dots
 2 around it to the north of the platform. There's that same
 3 pit still there in July 1990, and note that this is the
 4 month immediately after the transfer of operations from
 5 TexPet to Petroecuador.
 6 Now another image, here in October 1991, the same
 7 area. What do we see? The area has been scarified of
 8 vegetation and overlain with soil. This is comparable to
 9 the report from HBT Agra and Fugro in their audits that
 10 noted that this had occurred at many sites, and it had also
 11 occurred at this site. So, when we look at this data at
 12 this site, when you visit this site in the coming month,
 13 you should understand that, in fact, that pit was not
 14 closed by TexPet. It was closed by Petroecuador.
 15 Another factor that helps explain the difference
 16 between the two Parties' conclusions is applicable
 17 criteria. Applicable criteria are numerical concentration
 18 limits in a soil. A chemical concentration below that
 19 limit is not contaminated. A chemical concentration above
 20 that limit is and needs to be remediated. They're much
 21 akin to speed limits. If I'm driving under the speed
 22 limit, I'm fine. If I'm driving over the speed limit,
 23 something has to change.
 24 Well, criteria of this nature were issued for soil
 25 remediation at oilfield sites by the Government of Ecuador

12:22 1 in 2001. It was called Decree 1215 or the RAOH Rule, and
 2 it was specific to the hydrocarbon industry. And that
 3 regulation set forth remediation standards for three
 4 categories of lands use. Why three categories of land use?
 5 Well, again, it's similar to a speed limit. We have
 6 different speed limits for residential streets than we have
 7 for commercial streets or major highways. In the same way,
 8 it's understood under this regulation, and similar
 9 regulations around the world, that different levels of
 10 petroleum in the ground are tolerable for different uses.
 11 For an industrial use in Ecuador, TPH, or Total Petroleum
 12 Hydrocarbon in soil, cannot exceed 4,000. If it does, it
 13 needs to be remediated. For agricultural use, the limit is
 14 2,500. And for sensitive ecosystems, the limit is 1,000.
 15 A sensitive ecosystem under the regulation is a
 16 designated wildlife preserve or park, and it's designated
 17 under a complex--under a very set process by the Ministry
 18 of the Environment. There are no sensitive ecosystems at
 19 any of the sites that you'll be considering in this BIT
 20 process, at none of the JI sites and at none of the sites
 21 sampled by the Ecuador Experts.
 22 So, those are the limits that are being used by
 23 every oil company in Ecuador today. They're the limits
 24 that are approved by the Government of Ecuador on every
 25 remediation site. But they are not the limits that were

12:23 1 used by the Ecuador Experts in their evaluation of
 2 Environmental Impacts at these sites.
 3 Rather, the Ecuador Experts have indicated that a
 4 site is impacted if there is detectable oil in the soil.
 5 This is akin to say that any car that is moving is
 6 speeding. There is no tolerance for car movement. There
 7 is no tolerance for oil in the soil. And this is very
 8 different from what's being used by all other oil
 9 companies, including Petroecuador and Petroamazonas today,
 10 and approved by the Government. It's 100 to 400 times
 11 lower. This is not reasonable.
 12 And the Judgment makes the same mistake. The
 13 Judgment imposes a limit of 100. And that's not the limit
 14 that's being used by the other Parties in Ecuador and
 15 results in unnecessary remediation.
 16 Unnecessary remediation. Let's look at what
 17 happens when we apply the correct criteria. This is an
 18 example of a figure from the June 2014 Report by the
 19 Ecuador Experts. And it plots chemical concentrations on
 20 this map. You can see those points, and I'm going to
 21 circle them here in yellow. If they are detected,
 22 remember, they're considered contaminated, they're
 23 considered a problem.
 24 But what if we apply the actual remediation
 25 criteria that is used by Petroecuador, Petroamazonas, and

12:25 1 the Government of Ecuador at all other locations, including
 2 these? We find that only one of those locations actually
 3 exceeds a true TPH limit for agricultural soils. Only one
 4 of those areas requires action. It's a very limited
 5 problem, not a widespread problem.
 6 So, if we all apply the same criteria as all other
 7 Operators, we don't have a disagreement in this group. We
 8 don't have a disagreement between the two groups of
 9 experts.
 10 My final category to help explain the
 11 disagreements, the extent of impacts and whether or not
 12 they are migrating and getting worse over time. Let's look
 13 at that.
 14 What I found by looking carefully and comparing
 15 the information between Chevron's JI Experts and the
 16 Ecuador Experts at the sites where both of those Parties
 17 conducted sampling is that the data agree. The data are in
 18 pretty good agreement.
 19 And why is this important? In the reports, the
 20 Ecuador Experts have expressed concerns about the
 21 reliability of the Chevron data, that the laboratory
 22 methods were not reliable, that the sampling methods were
 23 not reliable. But then the test comes down, if Parties go
 24 out to the sites and find similar results, then those
 25 results are reliable. Let's look at that.

12:26 1 What I'm showing you here is a set of six pie
 2 charts, and they're in three columns: Soils on the
 3 left-hand side, outside of pits; groundwater sampling
 4 locations outside of pits; and drinking water. Both
 5 Parties went to these same sites and conducted sampling.
 6 Both Chevron and the Ecuador Experts find the same
 7 frequency of soil problems, 87 to 88 percent. Are there
 8 some areas that need to be addressed? Yes. There are some
 9 localized spills and other issues that require attention.
 10 Are there groundwater issues that need to be
 11 addressed? There are some limited areas that do, but the
 12 vast majority do not.
 13 And drinking water. All of the drinking water
 14 samples collected by both Parties met drinking water
 15 criteria in Ecuador today. The few locations where we do
 16 find soil impacts are in close proximity to the pits. So
 17 the data tell us--both Parties' data tell us--that we do
 18 not have widespread pervasive impacts in this area.
 19 Let's look at this from another perspective.
 20 Delineation. Lots of talk about delineation and the
 21 reliability of Chevron's delineation. What I found by
 22 comparing the data at the six sites where both Parties did
 23 analyses is that data lines up very well.
 24 Here is an example. On the left-hand side I have
 25 the Chevron sampling results for the Shushufindi 25 well

12:27 1 site for soils and sediments. On the right-hand side I
 2 have the more recent data collected by the Ecuador Experts.
 3 And if we put these together, we can see that the red
 4 points, points that exceed the current regulatory criteria
 5 of Ecuador, and the green points, the points that don't,
 6 align very well. Both Parties found that there are
 7 sediments in that stream near this site that require
 8 attention under the current Ecuador regulations. But
 9 outside of that, the soils are clean.
 10 So, both Parties have gone to these sites, and we
 11 can show, going site by site, that there is generally very
 12 close agreement between the places where we found problems
 13 and the places that we didn't. There are some exceptions,
 14 there are places where there are differences, but in
 15 general they are in good agreement.
 16 Now, the question of migration. Is this problem
 17 getting worse over time, or is it not? The Parties don't
 18 seem to agree about that.
 19 Now, if there is a problem of migration, the most
 20 likely place for that to happen would be an open
 21 unremediated pit. This is one example here. And let's
 22 look inside--where, if we had x-ray vision, what would we
 23 see in this pit? Well, you may have the chance to see some
 24 pits like this when you go there, and this is what you can
 25 expect to see. On the surface of the pit is a semi-solid

12:29 1 tarry material. It's weathered oil that's floating on that
 2 surface. At the edge of the pit it may have dried to form
 3 an asphaltic solid, but in the center of the pit, it will
 4 be an oily rubbery material. If you put a stick into this,
 5 it will come out coated with oily goo.
 6 Now, underneath that is rainwater. This oil is
 7 floating atop rainwater, and that rainwater is held within
 8 that pond. Why? Because the soils in this area are
 9 predominantly clay, and they will hold water. If this was
 10 sand, the water would drain out, but it doesn't drain out
 11 because it's predominantly clay. At the bottom of that pit
 12 you'll find oily sediments. If you stir those with a
 13 stick, oil droplets will rise to the surface. That's
 14 what's in those pits.
 15 Now, does that material migrate in the
 16 environment? There are many scientific reasons why we will
 17 say no, but for me the acid test is, did we observe it?
 18 Can we find it outside those pits? I will talk about two
 19 lines of evidence that are very important in that regard.
 20 The first that I put on here, you will see the
 21 white dotted line around the pit. That is from the
 22 Woodward-Clyde Remediation Report of 2000 where they note
 23 that when they remediated these pits, when they dig into
 24 them and they empty them out, they would find some
 25 penetration of the oil into the adjacent soils, typically

12:30 1 on the order of half a meter. Very limited penetration.
 2 And they would remove that when they remediated it.
 3 Also, both Parties, Chevron and the Ecuador
 4 Experts, have completed soil borings in close proximity to
 5 those pits, and those soil borings have shown that the
 6 concentrated oily material that's in these pits has not
 7 moved from those pits. That's very important.
 8 I'm going to address now two calculations that are
 9 presented by the Ecuador Experts and that you saw in the
 10 opening of this session last week. They're calculations
 11 that suggest to the Ecuador Experts that there are
 12 widespread impacts, that there is a lot of oil outside the
 13 pits throughout the Concession Area. This is the first of
 14 those calculations. This is a diagram that shows what they
 15 understood to happen when TexPet was in operation and it
 16 processed the produced water from the oil wells. In this
 17 diagram we see oily water coming out of a separator vessel
 18 going into a pit, and then pouring out on to a stream and
 19 causing a large oil slick. There is oil coming out and
 20 causing an oil slick. And the estimate is that there are
 21 1.2 million kilograms of oil in the stream.
 22 Well, again, I think the important thing here is
 23 for us to look at the data. What do the data really tell
 24 us about this operation?
 25 Now, the Ecuador Experts relied on three reports

12:32 1 where different parties went to the different production
 2 stations and measured that water as it came out of that
 3 facility into the stream. That was a common practice at
 4 that time. The actual management of that produced
 5 water--that's water that comes out with the oil and needs
 6 to be separated from the oil--the actual management of that
 7 produced water is depicted in this diagram. It goes
 8 through a series of treatment cells to try to remove as
 9 much oil as possible before it is discharged to a stream.
 10 The three sampling episodes that were conducted
 11 showed the following: That there was no free oil that was
 12 exiting from those ponds, and that 90 percent of those
 13 samples met current Ecuador criteria for discharge to a
 14 stream, 20 milligrams per liter. Why is 20 milligrams per
 15 liter acceptable? It's acceptable because we know that
 16 discharging water of that nature will not impact the water
 17 quality of a stream. And we also know that because in each
 18 of those three studies, additional samples were taken
 19 downstream 500 meters to determine if there were impacts.
 20 No impacts were detected.
 21 Consequently, there is not an impact from that
 22 produced water generation, and we confirmed that during
 23 Judicial Inspection. There is no oil slick that was
 24 released.
 25 You also saw this image in the opening by Ecuador.

12:33 1 And the--based on a rather complex statistical calculation
 2 by the Ecuador Experts, they have concluded that there is
 3 an enormous amount of oil outside of the oil pits in the
 4 Concession Area. An enormous amount equivalent to six of
 5 the Exxon Valdez. Six. Well, this is rather astounding,
 6 and I'm going to go through this calculation and determine
 7 and show you that it's not correct.
 8 And I don't mean to be disrespectful in any
 9 manner, and if I have that tone, I apologize in advance,
 10 but I feel that it is important for us to understand the
 11 veracity of these calculations.
 12 So, let's first put this in perspective, and then
 13 I will go through the data.
 14 If under this understanding there are--98 percent
 15 of the oil is outside the pits. So, that means that, on
 16 average, when I go to a site and I see an oil pit, there
 17 will be 50 oil pits of oil spread around the site. I
 18 inspected all these sites. The Ecuador--the Plaintiffs'
 19 Experts inspected all these sites. The local residents
 20 inspected all these sites. We didn't see anything of that
 21 nature. What we found were very limited impacts. So, how
 22 did we get from a very limited impact to an enormous amount
 23 of oil? I will try to explain that.
 24 And maybe you will hear from the gentlemen from
 25 Ecuador's side more about this this week.

12:34 1 Okay. The methodology that was employed was to
 2 sort all the data from all the sites into three buckets: A
 3 bucket where all the data that were sampled, soil data from
 4 zero to 50 meters around the site, 50 to 100 meters around
 5 the site, and 100 to 200 meters around the site. There
 6 were 37 well sites. They had that data. For each of those
 7 rings, the data were averaged and they were considered to
 8 be representative of all 322 sites. And then those
 9 averages were multiplied by the 322 sites and added up to
 10 six Exxon Valdezes.
 11 I'm going to go through just one of the rings.
 12 I'm going to go through the bucket of data from 100 to
 13 200 meters to help you understand what's wrong with this
 14 calculation.
 15 Okay. For the 100 to 200-meter radius, there are
 16 only seven well sites in the database that have data in the
 17 100 to 200-meter ring. Of those seven sites, only one site
 18 has any samples that exceed the current Ecuador criteria.
 19 One site. And that site is Sacha 13. So, how did we get
 20 from one site with perhaps five barrels of oil spilled on
 21 the ground, to 240,000 barrels throughout the Concession
 22 Area? Let's try to figure that out.
 23 Now, the Sacha 13 site is a site about which we
 24 know a lot. There was a Judicial Inspection conducted here
 25 in 2004, and in that Judicial Inspection, there were mapped

12:36 1 and photographed and measured two oil spills. They're oil
 2 spills that had just occurred. One was on a platform--I've
 3 labeled that as Petroecuador oil spill A--and one was off
 4 the platform in an area where a pipeline had been
 5 vandalized and oil had run down to an adjacent stream--I've
 6 called that oil spill B. It had just happened under
 7 Petroecuador's watch by vandals--not their fault--shortly
 8 before the Judicial Inspection.
 9 Now, these are photographed in the Judicial
 10 Inspection Report, they are mapped in the Judicial
 11 Inspection Report, and they were sampled by both Parties'
 12 experts.
 13 Now, this data tells us very accurately how much
 14 oil is in that soil, and it's very limited. However, in
 15 the calculation by the Ecuador Experts, they understand
 16 that that oil, they assume that that oil, came from the
 17 pits. But we know it didn't come from the pits. It did
 18 not emanate from the pits. They were isolated limited
 19 problems. But in that calculation, the average
 20 concentrations that were observed at that location are
 21 applied to the entire ring. So, this assumes that those
 22 two oil spills were replicated throughout that entire ring,
 23 and we know they were not.
 24 When this is rolled up across 322 sites, we arrive
 25 at the astounding figure, based on two small oil spills

12:37 1 under Petroecuador's watch, of 220,000 barrels of oil. An
 2 Exxon Valdez. That site was one Exxon Valdez. There are a
 3 lot of mathematical reasons that I could go through with
 4 you. I'm happy to answer questions from you or the Ecuador
 5 Parties about that. But I will just say that that oil
 6 exists only in that calculation.
 7 Human health risk. Are there risk posed to human
 8 health? Now, I've told you that there are conditions that
 9 require response today. And in my 2010 Report, I take all
 10 the data--the Chevron data, the Plaintiffs' data,
 11 Mr. Cabrera's data--and I have analyzed that to determine
 12 if it poses a human health risk. My finding was that if
 13 you apply the approved methods and factors that are
 14 approved by regulatory agencies and health institutions
 15 around the world, the answer is no. Yes, there are some
 16 problems. They do not pose a health risk. In the interest
 17 of time, I'm not going to explain this, but I'm happy to
 18 talk about it further, if you have questions.
 19 Finally, the Lago Agrio Judgment. In the course
 20 of my presentation today, I have tried to identify
 21 conflicts between the Judgment and the actual conditions at
 22 this site, and I just want to address one final factor.
 23 That is, the statement in the Ecuador Experts' Report that
 24 the Judgment was reasonable. Now, I find that they do not
 25 have the technical basis in their reports to make that

12:39 1 statement. And why do I say that?
 2 Well, here is a chart where I've listed each of
 3 the very specific categories of damages and the very
 4 specific costs that are presented in the Judgment.
 5 Let's look at one--two important aspects of that.
 6 For four of those categories, there is no technical support
 7 provided. There is no reason for those costs. So, it's
 8 not possible to find something reasonable when there is no
 9 reason to assess. There is no technical basis to be able
 10 to say that's reasonable. For three of the categories,
 11 there are reasons presented, but there is no analysis in
 12 these reports that showed that those reasons are
 13 reasonable. In fact, those values aren't discussed at all.
 14 So, my conclusion is not only that the
 15 Ecuador--the Lago Agrio Judgment does not comport with the
 16 facts, there is also no basis provided to call it
 17 reasonable.
 18 That summarizes my presentation. I've talked
 19 about each of these issues. I won't repeat them for you.
 20 In the interest of time, I thank you for the opportunity.
 21 I will answer your questions, and I welcome questions from
 22 the representatives of Ecuador.
 23 Thank you.
 24 PRESIDENT VEEDER: Do the Claimants have any
 25 further direct examination?

1 AFTERNOON SESSION
 2 (Discussion off the record.)
 3 PRESIDENT VEEDER: Let's resume.
 4 There will now be questions from the Respondent.
 5 CROSS-EXAMINATION
 6 BY MR. EWING:
 7 Q. Good afternoon, Mr. Connor. As you know, since we
 8 met before, my name is Greg Ewing, and I will be conducting
 9 the cross-examination today. Welcome to D.C.
 10 A. Thank you.
 11 Q. You will probably notice that I will try and pause
 12 after you give an answer, trying to listen to the Spanish
 13 interpreters just to explain my awkward staring at you
 14 while I wait for them.
 15 So, we'll try and keep things slow for that
 16 purpose.
 17 A. Yeah, and I'm going to try to repair my
 18 relationship with the Court Reporters and the translators
 19 as well.
 20 Q. They're both very gracious, so I think we'll be
 21 okay.
 22 Mr. Connor, you have a Master's of science in
 23 civil engineering; correct?
 24 A. Yes.
 25 Q. And you graduated in 1979?

12:40 1 MS. RENFROE: We do not, Mr. President.
 2 PRESIDENT VEEDER: Before we turn to the
 3 cross-examination, it might be useful to have a lunch
 4 break, or do you dispute that?
 5 MR. EWING: I do not dispute that.
 6 PRESIDENT VEEDER: I didn't think you would.
 7 Let's come back at 20 to 2:00.
 8 We ask you not to discuss the case or your
 9 testimony until you come back before the Tribunal.
 10 THE WITNESS: Yes, sir. Thank you.
 11 (Whereupon, at 12:40 p.m., the Hearing was
 12 adjourned until 1:40 p.m., the same day.)
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01:46 1 A. From graduate school, yes.
 2 Q. And then you began working in 1980?
 3 A. Yes.
 4 Q. And then you started GSI in 1986; is that correct?
 5 A. Correct.
 6 Q. And were you the President of GSI as of 1986?
 7 A. Yes.
 8 Q. And GSI has been working on oil field remediation
 9 for approximately 29 years; is that right?
 10 A. Working on oil field projects and many other types
 11 of projects during that period of time, yes.
 12 Q. When did you personally begin to work for Texaco?
 13 A. Well, as a consultant on their projects, I believe
 14 the--let me think. I think, if I remember correctly, I
 15 think some of the first projects were remediation projects
 16 for Texaco in New Jersey, and it would have been in the
 17 1990s.
 18 Q. Is that when GSI started working for Texaco as
 19 consultants?
 20 A. Yes.
 21 Q. And when did you personally begin consulting for
 22 Chevron?
 23 A. The first project directly for Chevron would have
 24 been, I think, around 1998 or 2000--actually around 2000,
 25 when there was an acquisition. I'm not sure what actually

01:48 1 the business relationship is, but I was working on a
 2 project with Texaco, and the two entities created--then it
 3 became Chevron. I'm not sure what the legal aspects of
 4 that are, but that would have been the first project with
 5 Chevron directly that I recall.
 6 Q. So, you've been working with them since--with
 7 Chevron since 19--since 2000, approximately?
 8 A. Well, on and off, with different people within
 9 that corporation, I have done projects on and off during
 10 that period of time, yes.
 11 Q. And you told us this morning that you're an expert
 12 in the Lago Agrio Litigation for the Judicial Inspections;
 13 correct?
 14 A. That's correct.
 15 Q. And you were appointed by Chevron in those--
 16 A. I think that may be the right terminology. I was
 17 nominated by Chevron for that position. I was the Expert
 18 on behalf of Chevron in that process for five of the
 19 Judicial Inspections.
 20 Q. And Chevron paid all of your expenses during that
 21 time?
 22 A. Yes.
 23 You know, we charged for our services and the
 24 expenses, and just as we charge anyone else, yes, they did
 25 pay us.

01:49 1 Q. And Chevron paid for you to inspect the sites in
 2 the Pre-Inspections?
 3 A. Yes, all the work that we performed on that
 4 project was paid by the client.
 5 Q. And Chevron paid you to write the playbooks that
 6 you put together before the Judicial Inspections; is that
 7 right?
 8 A. Our staff compiled those playbooks, and so the
 9 work that we contributed to those Pre-Inspection reports,
 10 we were compensated for that work.
 11 Q. And you coordinated with Chevron about when the
 12 Pre-Inspections would take place and who would go; correct?
 13 A. No, that's not correct.
 14 Q. Do you know who made those decisions?
 15 A. No, I wasn't involved in the management of that
 16 Pre-Inspection process. There were certain members of our
 17 staff who were involved, but in terms of the scheduling and
 18 management of that work, I wasn't involved in that. And I
 19 don't think that direction came out of our organization.
 20 Q. Who was involved in that?
 21 A. From our organization?
 22 Q. From GSI.
 23 A. See, there were three individuals, if I recall
 24 correctly. There was Dr. David Adamson, there was Mr. Jim
 25 McDade, and there was Roberto Landazuri, and that would be

01:51 1 spelled L-A-N-D-A-Z-U-R-I.
 2 There may have been other people at certain times,
 3 but those were the names that I recall at this time.
 4 Q. You said a moment ago that the scheduling of the
 5 Pre-Inspections did not come out of your organization.
 6 Does that mean that it came from Chevron?
 7 A. You know, I don't know exactly how those were
 8 organized. It wasn't organized by our office.
 9 Q. Was there anyone else who may have organized it,
 10 other than Chevron?
 11 A. There were a number of other companies and
 12 consultants that were part of that effort. I don't know
 13 how exactly those were organized or scheduled.
 14 Q. What other companies were involved in the effort
 15 to do Pre-Inspections?
 16 A. There was ENTRIX Consultants, who has an office in
 17 Quito, and they provided much of the manpower for the
 18 fieldwork in that effort.
 19 There were other companies that collected the
 20 aerial imagery and satellite imagery to help the team
 21 locate the historical features of the site.
 22 There was another company called URS that was
 23 related to Woodward-Clyde, the original remediation
 24 contractor, that had the responsibility to organize all the
 25 historical information with regard to the remediation

01:52 1 project, that they would go through those files and provide
 2 that.
 3 There was a contractor to ENTRIX out of Quito who
 4 conducted the interviews of the local residents.
 5 Those are the ones I can recall offhand.
 6 Q. Okay.
 7 A. And there was a laboratory; STL Laboratory was
 8 involved, and they had a facility, a temporary facility
 9 they built in Lago Agrio to accommodate the collection of
 10 samples and transport to their offices in the U.S.
 11 Q. You mentioned earlier that you would say the
 12 correct term is that you were nominated by Chevron. Does
 13 that mean that you would consider yourself to have been
 14 working for the Judge in the Lago Agrio Case?
 15 A. I guess the way I would answer that, Mr. Ewing, is
 16 that in all cases as an expert, you are to conduct your
 17 work as an independent technical entity, that you are to
 18 evaluate the data for what the data say, regardless of who
 19 is paying your bill.
 20 And I think it's a difficult task, but it's a very
 21 important task. It's a task on which I made a lot of
 22 effort in my career. I think it's a challenge, but you
 23 have to--that has to be a real focus.
 24 No, the Judge--the Judge was--when I say
 25 "nominated," that was the technical terminology used there.

01:54 1 The Parties would both put forward the nomination, and the
 2 Judge would swear you in to abide by the strictures of the
 3 Court and to do your best to be objective in your analysis.
 4 Q. Would you say that you have been successful in
 5 being independent, despite Chevron having paid all of your
 6 expenses and bills for all of this work?
 7 A. Yes.
 8 Q. Did you view your role as an assistant to the
 9 Judge, then?
 10 A. No, we were not--we were not assistants to the
 11 Judge. We were independent of the Judge. We received the
 12 Judge's instructions, but we were not accessories to the
 13 Court by any means. We were separate entities. We were
 14 independently asked to prepare our Reports, and both
 15 Parties, both the Plaintiffs' experts and the Chevron
 16 experts, would submit their Reports to the Court to be
 17 considered by the Court, and their settling Experts, as
 18 they were called.
 19 Q. And you wrote five Judicial Inspection Reports
 20 during your time in the Lago Agrio Litigation; is that
 21 correct?
 22 A. That's correct.
 23 Q. You wrote one at Sacha 6, Sacha 21, Shushufindi
 24 Sur, Shushufindi Norte, and Sacha Central Production
 25 Station?

01:55 1 A. That's correct.
 2 Q. And you submitted a JI report for each of these
 3 five sites; correct?
 4 A. That's right.
 5 Q. And the Rebuttal Report?
 6 A. No, I didn't write Rebuttal Reports, and I don't
 7 believe the--no, I didn't write Rebuttal Reports.
 8 Q. And Chevron appointed or nominated three experts
 9 in total from GSI to conduct Judicial Inspections; right?
 10 A. Just two.
 11 Q. It was you, Mr. Bianchi?
 12 A. Yes, Gino Bianchi--
 13 (Overlapping speakers.)
 14 THE WITNESS: Excuse me. You got that?
 15 COURT REPORTER: No.
 16 BY MR. EWING:
 17 Q. Let me just rephrase. And this is not meant to be
 18 a memory test, so I'll just make this more straightforward.
 19 Chevron appointed you, Mr. Bianchi, and Mr. Baca
 20 as Judicial Inspection experts from GSI; right?
 21 A. Well, this will maybe correct the facts on that.
 22 Ernesto Baca and I both were appointed both as
 23 experts on behalf of Chevron in that process. We were both
 24 employees of GSI Environmental at the time. Mr. Bianchi
 25 was not with GSI at that time. He was with a separate

01:57 1 organization called Geomatrix.
 2 Q. And Mr. Bianchi has since joined GSI?
 3 A. Yes, some years after that time.
 4 Q. Did GSI perform all of the support work for
 5 Chevron's appointed experts during the Lago Agrio trial?
 6 A. There was some portions of support work,
 7 administrative work, that was provided by GSI to all the
 8 experts, and they had to do with shipping of equipment,
 9 organization of the laboratory work and the attendant
 10 appurtenances of that, development of an electronic
 11 database and a geographical information system where the
 12 information would be compiled and made available to those
 13 experts as they saw fit to use.
 14 Q. And there were 56 Judicial Inspections conducted
 15 during the Lago Agrio Litigation?
 16 A. Yes.
 17 Q. And 45 of those were conducted by party-appointed
 18 or party-nominated experts; is that right?
 19 A. Yes, originally it was scheduled for there to be
 20 originally 122, but the courts terminated that process
 21 after 45. And after that point in time, the Chevron
 22 experts were not allowed to participate, so that the
 23 Judicial Inspections during which Chevron experts collected
 24 data and wrote reports was limited to 45.
 25 Q. Let's just make sure to clarify that. The first

01:58 1 45 Judicial Inspections were conducted by party-nominated
 2 experts, an expert from the Lago Agrio Plaintiffs and an
 3 expert from Chevron; correct?
 4 A. That's right.
 5 Q. And then each side wrote a report, a Judicial
 6 Inspection Report; correct?
 7 A. Yes.
 8 Q. After those 45 were completed, there were 11
 9 court-appointed Judicial Inspections; correct?
 10 A. That's right.
 11 Q. And you said that Chevron was not allowed to
 12 participate in those?
 13 A. Chevron was--after the original--the original
 14 process was, as I understood it as one of the experts,
 15 there was a list of 122 sites that were submitted to the
 16 Court by the two Parties at which Judicial Inspections
 17 would be conducted, and at which both sides would nominate
 18 an Expert for participation as you described. Both experts
 19 would write a report and submit it. And then there was a
 20 group of other experts that were appointed by the Court
 21 independent of the two Parties that were called "Settling
 22 Experts." There were five persons in that role. They were
 23 charged with responsibility of receiving both of those
 24 Reports and evaluating them and making their technical
 25 recommendation to the Court. That occurred only one time.

02:00 1 That was at the Sacha 53 well site. And after that time,
 2 during which the settling experts agreed with the findings
 3 of Mr. Baca, that process was terminated, so there--
 4 Q. If I can just stop you right there, Mr. Connor, we
 5 will be definitely talking about Sacha 53, and we will talk
 6 about the Settling Experts. I would like to talk to you
 7 about the 11 Judicial Inspections that occurred after the
 8 45 because that is what made the final 56, and this was not
 9 intended to be a contentious point.
 10 A. Oh, I was just trying to clarify for you the
 11 multiple roles of the different types of experts that were
 12 involved, but I'd certainly be happy to talk about the last
 13 11.
 14 Q. You'd agree with me, though, that there were 11
 15 party-appointed--say it again.
 16 You would agree with me, though, that there were
 17 11 court-appointed Judicial Inspections that occurred after
 18 the 45 party-appointed Judicial Inspections?
 19 A. Yeah, in your terminology, yes, that's correct.
 20 Q. What would you call those 11?
 21 A. Well, we call them the court experts, but I think
 22 you'd call the Court--all the experts technically speaking
 23 were court-appointed, but after those last 11, the two
 24 Parties did not have their nominated expert. It was just
 25 one expert selected by the Court, to my understanding.

02:01 1 Q. So, there were a total of 45 Judicial Inspection
 2 reports that were submitted by Chevron-nominated experts?
 3 A. That's correct.
 4 Q. And Mr. Baca performed 12 of those?
 5 A. You know, I don't know how many Ernie did, but he
 6 did a number of them, yes.
 7 Q. Mr. Baca did 12 of those. Do you have any reason
 8 to disagree with me on that?
 9 A. No, I just don't know what his total number was.
 10 Q. And Mr. Bianchi did 13?
 11 A. That may be correct as well.
 12 Q. And he is now a Vice President of GSI. Your
 13 testimony is he was not at the time; is that correct?
 14 A. No. He joined GSI after Geomatrix was acquired by
 15 a different company some years later, and now he is a
 16 member of our organization, yes.
 17 Q. And you did five Judicial Inspection Reports?
 18 A. Correct.
 19 Q. So, you are here today partly to explain and
 20 defend your Reports in this proceeding and to explain and
 21 defend your Reports in the Judicial Inspections?
 22 A. I wouldn't characterize it that way. In the BIT
 23 proceeding, I have looked at all the data collected by all
 24 Parties, both the nominated Experts from Chevron and those
 25 from the Plaintiffs and those of Mr. Cabrera. And so, in

02:03 1 my Reports, I discuss all that. It's a comprehensive
 2 analysis. It's not a defense or a discussion of any single
 3 JI Report.
 4 Q. In 2007, when Chevron entered into settlement
 5 negotiations with the Lago Agrio Plaintiffs, you went to
 6 Boulder, Colorado, with Ms. McMillen for those
 7 negotiations; is that correct?
 8 A. I wasn't aware that they were settlement
 9 negotiations at that time. I was asked by Chevron to go
 10 meet with Mr. Doug Beltman and Ms. Ann Maest at the office
 11 of Stratus in Boulder, Colorado, and I did that. And I
 12 provided them a summary of the information that we had
 13 compiled during the Judicial Inspections, and we talked
 14 about that. But I wasn't knowledgeable as to what legal
 15 discussions were under way at that time.
 16 Q. Was there anyone else in the room when the four of
 17 you met?
 18 A. No, I don't believe so. It was just the four
 19 people.
 20 Q. So, you don't remember a meeting that happened
 21 December 19th, 2007, where you attended with Ms. McMillen
 22 and the two representatives from Stratus as a part of
 23 settlement negotiations?
 24 A. Well, maybe we're not understanding each other.
 25 I did attend a meeting at the Stratus office in

02:04 1 Boulder, Colorado, and that may have been the time, but I'm
 2 not aware that that was involved with settlement
 3 proceedings. I have no knowledge of that. I was asked to
 4 meet with those persons and discuss our technical findings
 5 and exchange information, and that's what we did.
 6 Q. But it's your testimony today that there was no
 7 one else there?
 8 A. You know, Mr. Ewing, I don't recall that there was
 9 anybody else in the room. I recall that it was the four of
 10 us.
 11 Q. And if there had been an independent settlement
 12 negotiator, you would probably recall that, wouldn't you?
 13 A. There was no such person. I'm certain of that.
 14 Q. So, you conducted your Pre-Inspection visits in
 15 December 2003; is that right?
 16 A. The first visits were in December 2003, and they
 17 were related to the Controller General's charge that the
 18 remediation program had never happened. I conducted
 19 additional site visits in 2004, but it wasn't until some
 20 time after the first quarter of 2004 that it was indicated
 21 that those visits would also relate to the Judicial
 22 Inspection process for the Lago Agrio Plaintiffs' case.
 23 Q. By December 2003, the Lago Agrio Litigation had
 24 been filed; correct?
 25 A. That's my understanding, yes.

02:06 1 Q. What other dates did you conduct a Pre-Inspection
 2 other than December 2003 and January 2004?
 3 A. If you look in my 2010 Expert Report--and I have
 4 it here--there is a list of every Pre-Inspection that was
 5 done by any Party on behalf of Chevron of any sort. I will
 6 give you the table number for reference.
 7 It lists out who was involved in the
 8 Pre-Inspection and when it was conducted.
 9 Q. And this is in your 2010 Report?
 10 A. Yes.
 11 I will find it. Here it is.
 12 It is Table (2)(c) of my Report of
 13 3rd September 2010; and, in this table, there is a three
 14 page table, you will find every oilfield listed, every site
 15 at that oilfield, and it will list the dates on which
 16 different Parties visited the site and whether that
 17 inspection was a PI--which it says Pre-Inspection--or
 18 JI--which it says Judicial Inspection--and all of those
 19 dates are listed there. You can see when I visited the
 20 site and when other Parties visited the sites as it's
 21 recorded here.
 22 Q. And was this information disclosed to the Lago
 23 Agrio Court?
 24 A. This particular table, is that what you're
 25 referring to?

02:10 1 attachments is a more complete text of those specific
 2 Actas. So, these were documents prepared during the
 3 Judicial Inspection that recorded all the statements by the
 4 different Parties. And you will see in these examples how
 5 the identification of different flagging and marking left
 6 by the Plaintiffs' Experts were discussed and acknowledged
 7 and openly aware to all Parties, as was the fact that the
 8 Chevron Experts' Parties had visited there, too.
 9 Q. Did Chevron put flags on their sampling locations?
 10 A. No, we didn't put flags on the sampling locations
 11 because, after the first Judicial Inspection at Sacha 6
 12 that I conducted, the Court had instructed the Parties not
 13 to the disturb the sites, not to change the appearance of
 14 the sites, not to cut the vegetation, not to leave
 15 flaggings, not to leave markings, and we abided by that.
 16 Q. So, as Ms. Renfro asked you earlier, you
 17 submitted four Reports in this arbitration; is that right?
 18 A. Yes.
 19 Q. Okay. And according to your August 2013 Report,
 20 TexPet drilled 344 or operated 344 sites; is that right?
 21 A. The records I have indicate that, as of June 1990,
 22 there were 344 different types of oilfield facilities in
 23 the Concession at that time.
 24 Q. And at least 322 of those were wells; is that
 25 correct?

02:07 1 Q. This particular information.
 2 A. The information that was given to the Lago Agrio
 3 Court was confined to that that was collected during the
 4 Judicial Inspections themselves. I don't believe there is
 5 any mystery that the Parties were conducting
 6 Pre-Inspections. That was acknowledged during the Judicial
 7 Inspections themselves. It was acknowledged in
 8 correspondence between the Court and Chevron.
 9 I don't believe that this particular table was
 10 submitted in that proceeding. It was submitted in this
 11 proceeding.
 12 Q. So, it's your testimony today that both Parties
 13 conducted Pre-Inspections and the Court was well-aware of
 14 those pre-inspections; is that right?
 15 A. That was my understanding. I know that both
 16 Parties--I know that both Parties conducted
 17 Pre-Inspections, and it was--to answer that, I provided it
 18 in my 2014 Report--let me pull that up--I can give you the
 19 citations there--a list of the dialogue in the Actas where
 20 the Pre-Inspections are discussed with the Judge, and, for
 21 example, identifying the flagging, et cetera.
 22 I can find that for you, just a minute. Here it
 23 is. Yeah. You will find that--some of those excerpts that
 24 I provided you in my May 7th, 2014 Report, Section 5.2
 25 Pages 35 to 37, and then attached in one of those

02:11 1 A. That is my understanding, yes.
 2 Q. Mr. Connor, would you turn to Tab 6 in the binder
 3 that we have provided you, the large binder.
 4 A. It is large.
 5 Q. Yes.
 6 A. Tab 6.
 7 BY MR. EWING:
 8 Q. Unfortunately, it's not the only one either. But,
 9 for now, we will stick with that.
 10 A. Okay. Is it large binder Number 1?
 11 Q. Yes, large Number 1.
 12 And this is RLA-308, and it's Ecuadorian law from
 13 October 21st, 1921.
 14 Were you aware of the Ecuadorian law in effect at
 15 the time the TexPet Consortium Agreement was signed
 16 provided that oil Operators had the "right of use for
 17 purposes or commercial use and in the necessary quantity
 18 lands, waters without depriving them of their qualities of
 19 potability and purity and without affecting fishing." Were
 20 you aware of that?
 21 MS. RENFROE: Pardon me, Mr. President, I'll level
 22 an objection that this is a question of a legal nature.
 23 The question seems to call for a legal conclusion of a
 24 non-legal expert.
 25 PRESIDENT VEEDER: Well, the objection is correct,

02:13 1 but I suspect you're asking simply if he knows its effect.
 2 MR. EWING: That's correct.
 3 PRESIDENT VEEDER: Then please proceed, but it
 4 certainly won't be understood as a legal conclusion or a
 5 legal answer.
 6 BY MR. EWING:
 7 Q. And I don't ask you to make legal conclusions
 8 today. Please.
 9 A. Not making any legal conclusion, no, I'm not aware
 10 of what the laws were that surrounded those activities at
 11 that time. There is similar language in the Concession
 12 Agreement between the Government and TexPet from what I've
 13 seen. But my evaluation was really of the practices and
 14 the regulations that apply. I haven't offered opinions on
 15 the legal context of those activities.
 16 Q. You said that your evaluation was of the practices
 17 and the regulations that apply. What do you mean by "and
 18 the regulations that apply"?
 19 A. I mean two different things.
 20 In the analysis that I presented in my Reports,
 21 starting with the 2010 Report and then explained further in
 22 the other three Reports, I have evaluated the operations of
 23 the TexPet organization in Ecuador with regard to the
 24 prevailing standards of that time in other countries as
 25 well as with Latin America, and I have also considered

02:16 1 PRESIDENT VEEDER: You mustn't talk. You will
 2 find it goes on. I think you asked whether it would have
 3 been more appropriate for you to compare TexPet's
 4 operations with Ecuadorian law.
 5 MR. EWING: He says "I have evaluated the
 6 operations of the TexPet organization in Ecuador with
 7 regard to the prevailing standards of that time in other
 8 countries as well as with Latin America."
 9 Mr. President, I will just move on and just
 10 simplify this all.
 11 PRESIDENT VEEDER: You may move on. You made your
 12 point.
 13 BY MR. EWING:
 14 Q. Would you turn to Page 3 of your June 2013 Report,
 15 please.
 16 A. Is that in the binder there?
 17 Q. It is in the binder, you can also find it in the
 18 spiral-bound version that Claimants have provided to you.
 19 A. 2013?
 20 Q. Correct. It is Tab 13 in our binder?
 21 A. Okay. 2013. Page 3.
 22 Yes, I'm there.
 23 MS. RENFROE: Did you say Page 3?
 24 MR. EWING: Correct. Page 3 of his 2013 Report.
 25 It is Tab 13. Sorry, it's not actually in the

02:14 1 their operations in the context of the prevailing
 2 regulatory standards in that country and elsewhere to see
 3 if they were consistent in that manner.
 4 Q. Did you evaluate TexPet's practices as they
 5 related to the 1921 Hydrocarbons Law?
 6 A. No, I did not. I evaluated them with regard to
 7 the prevailing standards for Environmental Protection as
 8 applied by industrial organizations throughout the world
 9 and in Ecuador at that time.
 10 Q. But assuming with me for a moment the legal
 11 conclusion that this was in effect--and I'm not asking you
 12 to actually--we're not making a legal conclusion based on
 13 that, but assuming it's in effect, wouldn't it have been
 14 most appropriate for you to compare TexPet's operations
 15 with Ecuadorian law?
 16 MS. RENFROE: I'll renew my objection. The
 17 question assumes a hypothetical, and it assumes a legal
 18 interpretation of a law that this Witness has already
 19 explained he did not consider and was not familiar with.
 20 PRESIDENT VEEDER: Where are you going with this?
 21 You've taken it as far as you can.
 22 MR. EWING: My understanding from what his answer
 23 was, is that he just said he evaluated TexPet's practices
 24 in accord with laws other than that in place in Ecuador,
 25 and now the screen has gone off.

02:17 1 binder. If you would--
 2 PRESIDENT VEEDER: That's why we can't find
 3 Tab 13.
 4 MR. EWING: It's not quite large enough.
 5 If you could look at the spiral-bound one, it's
 6 the same. My apologies for that.
 7 BY MR. EWING:
 8 Q. Do you see where you say: "Visual inspections,
 9 soil sampling, and laboratory analysis of oil composition,
 10 residual saturation characteristics and leeching potential
 11 of over 1400 soil samples show that the petroleum remaining
 12 in soils and pits as of 2004 to 2009 was highly weathered
 13 except in areas of recent spills or discharges by
 14 Petroecuador"?
 15 A. Yes.
 16 Q. And turning to Page 22 of the same Report, in the
 17 middle of little Section VI.
 18 A. Yes.
 19 Q. Do you see where you state that "these data showed
 20 the residual hydrocarbons to consist of insoluble resins
 21 and asphaltenes that are immobile in the soil matrix. LBG
 22 suggests that these petroleum residuals could migrate to
 23 impact groundwater, surface water, or other land areas
 24 beyond the well platform, which is physically impossible"?
 25 Do you see that?

02:20 1 A. Yes.
 2 Q. Is that still your opinion today?
 3 A. Yes, it is, and I can explain that if you wish.
 4 Q. We will get to that.
 5 So, would it be fair to say that you are
 6 concluding in these two paragraphs and in your Reports that
 7 the hydrocarbons remaining from TexPet's operations are
 8 immobile because "only the heavier end portions persist."
 9 A. No, not completely.
 10 Q. You said here that the data show--these data
 11 showed the residual hydrocarbons consist of insoluble
 12 resins and asphaltenes. What are resins?
 13 A. Resins are components of the crude oil spectrum
 14 that are in the heavier ranged carbon range above C-30, and
 15 the asphaltenes are particulates that exist as colloids
 16 within that mixture. These are characteristic of the--I
 17 should say this, there are four different fractions that
 18 were analyzed: The saturated, the aromatics, the resins
 19 and the asphaltenes on all the oil samples that were
 20 collected, and the residuals that were found were
 21 principally in the resins and asphaltenes spectrum with
 22 aromatics and saturates principally absent.
 23 Q. So, would it then be fair to say that you conclude
 24 that the hydrocarbons remaining, the residual hydrocarbons,
 25 from TexPet's operations are immobile because only the

02:22 1 heavier end portions persist along with the asphaltenes?
 2 A. No, that would not be correct.
 3 Q. What other portions remain in addition to the
 4 asphaltenes and resins?
 5 A. Well, the reason your Statement is not correct is
 6 that the oil composition is only one factor in the mobility
 7 of those materials within the environment, and I list a
 8 number of other factors throughout this Report and into the
 9 citations that you present here that affect the ability of
 10 that material to move within the environment.
 11 Q. So, looking just at these data that you are
 12 referring to in VI, Section VI here, are there any other
 13 portions of the residual hydrocarbons that you are leaving
 14 out of your sentence?
 15 A. There are the--the ability of that material to
 16 move is characterized by the soil leachate tests and the
 17 residual saturation tests. As I state other where, these
 18 materials are found that principally consist of asphaltenes
 19 and resins as two of the characteristic components of the
 20 crude oil. As documented in the Reports, there are some
 21 diesel range organics that still remain in those materials,
 22 but they're not soluble as demonstrated by leaching tests.
 23 The primary composition is resins and asphaltenes, and the
 24 analysis of those remaining materials by means of leachate
 25 tests and residual saturation tests demonstrated their

02:23 1 immobility.
 2 Q. At the end of this Paragraph VI you rely on an
 3 article by O'Reilly and Thorsen that was published in 2010.
 4 That was titled "Impact of Crude Oil Weathering on the
 5 Calculated Effective Solubility of Aromatic Compounds:
 6 Evaluation of Soils from Ecuadorian Oilfields." Is that
 7 correct?
 8 A. Yes, that's one of the citations that I present
 9 here, correct.
 10 Q. And that citation supports your conclusion that
 11 the residual hydrocarbons, it is physically impossible for
 12 them to be mobile in the soil matrix?
 13 A. It's particularly related to the leachate
 14 potential of those residual hydrocarbons. I don't rely on
 15 that document to characterize the degree of weathering. I
 16 only rely on it, along with the article by Dr. Newell, to
 17 evaluate the leaching effects of that material, how much
 18 can it leach. So, not only is it theoretically not
 19 reasonable for that material to leach into the soil, but
 20 hundreds or thousands of leachate tests had supported that
 21 theoretical finding.
 22 Q. And when you're referring to "leachate tests,"
 23 you're referring to the TCLP test?
 24 A. That was the test that was conducted principally
 25 in this matter, and that's a test, for the benefit of the

02:25 1 panel, the leachate is much like the fluid that forms in
 2 your cup when you drip in a tea bag. So, if you have a
 3 soil and you put it in water, some of that material in the
 4 soil will dissolve into the water, and that's called
 5 leachate.
 6 Sorry for the interruption, Mr. Ewing.
 7 Q. We're okay so far.
 8 Did you know that Chevron funded that O'Reilly
 9 paper?
 10 A. The O'Reilly paper indicates that at the end of
 11 the text.
 12 Q. That Chevron funded it?
 13 A. That's what it says. I wasn't aware of what their
 14 arrangements were when they wrote the report, but the paper
 15 discloses that within the body of the text.
 16 Q. And the paper also discloses that Chevron provided
 17 the data for the paper; correct?
 18 A. I don't recall if they say that, but that's my
 19 understanding, yes.
 20 Q. I apologize. We don't have a binder. We had some
 21 printing problems this morning, which is why we only have
 22 two of our large--or one large binder. We'll put this on
 23 the screen for now.
 24 PRESIDENT VEEDER: Can I just say that we are very
 25 grateful to both sides for this incredibly efficient

02:26 1 bundling system. It's been very helpful to us. If it goes
 2 wrong once, don't worry about it.
 3 MR. EWING: Thank you. We are doing our best, as
 4 I know Claimants are as well.
 5 BY MR. EWING:
 6 Q. My apologies, Mr. Connor. Here are the
 7 acknowledgments in that paper. So, they've--Chevron funded
 8 it and provided the raw data for it.
 9 Did you know that Chevron also commented on it?
 10 A. No, I wasn't party to the communication between
 11 the authors and Chevron.
 12 Q. And that Ms. McMillen actually provided comments
 13 on it?
 14 A. No, I wasn't party to that communication.
 15 Q. And the Newell paper that you referred to from
 16 2005, that's Charles Newell, Dr. Newell; right?
 17 A. Correct.
 18 Q. And he is a Vice President at GSI?
 19 A. Yes.
 20 Q. And he was at the time?
 21 A. Yes.
 22 Q. So, the only sources you have here are a paper by
 23 GSI and a paper funded and edited by Chevron?
 24 A. No, that's not correct. If you read the paper by
 25 Chuck Newell, you will see that he signs--he cites a number

02:29 1 of research papers that were conducted by various Parties
 2 to support his analysis of residual saturation. His
 3 analysis is more of a profile of what those other papers
 4 say. And if we pull up that report, I can point those out
 5 to you.
 6 Q. And we may get to the report--I don't know if
 7 we'll need to get into the details of it--but would you
 8 agree then that it's an acceptable practice to cite to and
 9 rely on reports that amalgamate and bring together a series
 10 of other reports?
 11 A. Or, in that you're referring to the report by
 12 Dr. Newell?
 13 Q. Is that a--generally, the idea that Dr. Newell has
 14 brought together research papers conducted by various
 15 Parties and presented them in his single paper--is that a
 16 normal and acceptable practice in your field?
 17 A. The work product by Dr. Newell in this case was a
 18 report written for Chevron for this matter which addressed
 19 the residual saturation characteristic of the clayey soil
 20 in that region based on samples that I collected and sent
 21 to the laboratory. Dr. Newell then cites to a number of
 22 different papers by different academic researchers to
 23 evaluate that data and arrive at a conservative estimate of
 24 the holding capacity of the soil which we call "residual
 25 saturation." That's the ability of the soil as a sponge to

02:30 1 retain an oil before that oil becomes mobile.
 2 And I think yes, that's a completely appropriate
 3 manner, that if you do scientific work, you certainly need
 4 to consider the context and the research done by others in
 5 order to arrive at an informed decision.
 6 Q. The point of this Section VI on Page 22 of your
 7 2013 Report, though, is to say that the residual
 8 hydrocarbons are immobile and cannot migrate to the
 9 surrounding land and water resources.
 10 A. The specific purpose of that paragraph is to
 11 respond to the prior report by the Ecuador Experts and to
 12 more specifically focus in on one technical element, a
 13 technical element that is discussed more broadly in my
 14 other reports. And in this particular paragraph, if you
 15 read this whole section, you will see that what I'm
 16 presenting is a response to the Ecuador Experts noting that
 17 they had failed to consider certain scientific principles.
 18 And the inability of that material to move is not
 19 simply dependent on the scientific theories that are
 20 presented by Dr. Newell and by Dr. O'Reilly. It's more
 21 completely related to the additional information, that same
 22 paragraph, of the hundreds if not thousands of analyses
 23 conducted on every soil sample that contained hydrocarbons
 24 collected during the Judicial Inspections to determine if
 25 those hydrocarbons, whatever their composition, were mobile

02:32 1 within the environment. And the conclusion of those
 2 thousands of analyses were they were not.
 3 And my critique at this point in this document was
 4 that those data, which are very important, had not been
 5 duly considered in the conclusions drawn in the Ecuador
 6 Experts' Reports at that time.
 7 Q. Mr. Connor, I will try to be very specific with my
 8 questions, if you could try and focus on those questions in
 9 your response. What you're saying in Section VI here is
 10 that LBG's conclusion that the TexPet residual hydrocarbons
 11 can migrate and pose a risk of impacts; you are saying that
 12 is wrong?
 13 A. I'm saying that the tests that we had conducted
 14 indicated that the materials that remained within the
 15 closed pits and the other materials we tested within soils
 16 were not mobile within the environment given their
 17 composition. That's what we're saying, yes.
 18 Q. So, you disagree with LBG that TexPet residual
 19 hydrocarbons can migrate and pose a risk of impact on the
 20 surrounding land and water resources?
 21 A. I guess the point of difference is whether or not
 22 they migrate, whether or not they spread. There are some
 23 material that remain from the TexPet era, pits that were
 24 not included in the RAP, and there are new problems that
 25 have occurred after that era. Our findings are that those

02:34 1 materials are not spreading. They're relatively static
 2 within the environment. If there is a pit that has liquid
 3 material in it, it hasn't exited that pit, nor is it likely
 4 to do so. And that relates to a number of different
 5 factors that I point to here and encourage the Ecuador
 6 Experts to consider the body of that data.
 7 Q. So, you disagree with LBG?
 8 A. Yes.
 9 Q. Thank you.
 10 Your basic premise, then, is that liquid crude
 11 oil, which would be mobile crude oil, must be--must not be
 12 TexPet's residual hydrocarbons; correct?
 13 A. No, that's not my testimony.
 14 Q. So, if there is liquid crude oil, do you believe
 15 that could be left from TexPet?
 16 A. I just to want clarify our terminology here.
 17 I do think you can have liquid weathered crude oil
 18 that, under certain circumstances, can remain within the
 19 environment, and it could date from the era when TexPet was
 20 the Operator for the Consortium. All the liquid crude oil
 21 in this area is not of recent vintage or old vintage.
 22 The earlier statement that you pointed out in
 23 which I stated that all of the oil was highly weathered
 24 except those associated with very recent spills from
 25 Petroecuador, by "very recent spills," I mean spills

02:37 1 this water can move through the plastic liner around it.
 2 And that's--I think that's a relatively good
 3 analogy that you've made.
 4 Q. If the pits are dug into sand, would that allow
 5 the liquid petroleum to migrate?
 6 A. It would have a different potential to migrate.
 7 You--certain oils, depending on their viscosity, will move
 8 more easily through larger-pored soil, so a sandier
 9 gravelly soil, yes, it can move more freely through that.
 10 A clayey soil, no. A silty sand or a clayey sand, no.
 11 Q. So, you specified, in the diagrams you showed us
 12 earlier this morning, pits that are lined in clayey soil
 13 is, I think, the description on your slides. The fact that
 14 it's clayey is integral to your conclusion; correct?
 15 A. It's--I think the actual statement on the slide is
 16 it's principally clayey soil, and by "clayey," I mean that
 17 it has clay as a principal component. The geotechnical
 18 analyses of porous soils--by that I mean sand or
 19 gravel--have long since showed that if the clay fraction
 20 exceeds 10 percent, then the effective permeability of that
 21 material is like a clay, because all the pores have been
 22 blocked by the clay. So, a clayey soil will uniformly
 23 exhibit a low permeability. By low permeability, it means
 24 it's resistant to water movement and resistant to oil
 25 movement. That's why I use the term "clayey." It

02:36 1 perhaps within one month. Weathering occurs very rapidly
 2 in that environment. And only in those few places where we
 3 did encounter fresh crude oil spills, those were crude oil
 4 spills associated with recent operations. Crude oil spills
 5 that were older could not be time stamped because it's not
 6 clear when they had happened.
 7 But yes, you can have liquid crude oil, weathered
 8 crude oil, that's not mobile within the environment, within
 9 the environment in which it's located, regardless of its
 10 age.
 11 Q. Are you saying that I could have liquid crude oil
 12 and, therefore, it couldn't be mobile, similarly to I have
 13 liquid water in my bottle but it's not currently mobile
 14 outside of this bottle; is that what you're trying to say?
 15 A. That may be an apt analogy. So, here we have
 16 water in a bottle, and the water doesn't come out, and my
 17 hands are dry. This is very much akin to the pits that I
 18 showed you, and you'll see them, too, Mr. Ewing, if you
 19 haven't had the opportunity to visit the Concession Area.
 20 There were pits excavated in clay that were not included in
 21 the RAP and still remain. As I described, there is gooey
 22 material on the surface and there's oil-laden sediments at
 23 the bottom. You can't extract liquid material from those.
 24 In all cases, it's quite weathered. It is not capable of
 25 moving through the pores in a clayey soil any more than

02:39 1 indicates a soil whose clayey content is greater than
 2 10 percent by dry weight.
 3 Q. So, your opinion--so, your opinion is that the
 4 pits in Ecuador are equivalent to these water bottles that
 5 we have in terms of their ability to contain the oil that's
 6 put into them?
 7 A. I would say that functionally, in terms of the
 8 work that we did, we did not find significant migration
 9 beyond the boundaries of those pits.
 10 They're not exactly the same because as the--those
 11 are made out of soil, and--which is different from
 12 plastic--and as observed in the Woodward-Clyde report, I
 13 showed you a diagram, there is some permeation of the oil a
 14 short distance into those soils that was observed. But
 15 there is no permeation or migration at any significant or
 16 measurable distance. Samples--core soils that were taken
 17 only a few meters away did not encounter that oil.
 18 Q. And if I took this bottle and I stuck a knife in
 19 it and pulled it out, you would agree with me that the
 20 water would come out; right?
 21 A. Yes, it would come out. But that wouldn't happen
 22 in clayey soil because clay is very plastic.
 23 Q. So, if I took--
 24 A. By that I mean deformable. Do you understand that
 25 difference? Yeah. It doesn't have--I guess the difference

02:41 1 is what you call catastrophic failure. This is the reason
 2 we don't use plastic tanks at refineries. Because when a
 3 plastic vessel ruptures, it ruptures completely. Soil
 4 vessels such as ponds have long been used because they have
 5 the characteristic of resisting catastrophic failure.
 6 They're very plastic and moldable, and that's one of the
 7 advantages of earthen pits compared to plastic bottles.
 8 Q. But you would agree with me, if there are roots
 9 through the clayey soils, or cracks in the clayey soils,
 10 that those would also be avenues for the water or oil to
 11 get out just like a knife in the side of my bottle?
 12 A. No, it won't be like a knife in the side of your
 13 bottle because it doesn't cause a catastrophic failure, the
 14 soil.
 15 But roots and small fractures do provide an avenue
 16 for movement of the oil through the soil because they serve
 17 to create a larger pore, and a larger pore space allows the
 18 oil to enter. That was observed in the case by--in the
 19 report that you see from Woodward-Clyde who did the
 20 remediation, they did note that via tree roots and others,
 21 you would see a short movement over a short distance, I
 22 should say, of the oil into the surrounding soils.
 23 However, they did not observe significant migration, and
 24 neither did the data that's been collected today by any
 25 Party.

02:42 1 Q. So, just to make sure I understand, and this is
 2 clear, your opinion is that there may be liquid crude oil
 3 from TexPet's operations, but that that crude oil is
 4 contained within these pits?
 5 A. To be more specific about that, it's not always
 6 contained within the pits, and we should refer to this as a
 7 hypothetical. I can't testify, Mr. Ewing, that the crude
 8 oils that we find either when it's sediments or
 9 unremediated pits, I can't testify that those are
 10 necessarily associated with TexPet's period of operation.
 11 They may be. I don't know. But in the investigations that
 12 we have conducted, I don't recall observing that these
 13 materials had migrated a significant distance outside these
 14 pits.
 15 There is one instance that I recall in seeing a
 16 sample outside a pit, and that's at the Lago 2 well site.
 17 Some of the information that was collected by the Ecuador
 18 Experts, there is one location outside a pit where
 19 indicates that there has been a short distance migration.
 20 But in general, no, we haven't seen significant migration
 21 from these pits, and that's generally consistent with the
 22 data compiled by all Parties.
 23 Q. When you referred to Ecuador Experts, do you mean
 24 LBG?
 25 A. I believe in my Reports I identify a variety of

02:44 1 experts that I have referred to as "Ecuador Experts." It
 2 certainly includes Mr. Goldstein and Dr. Garvey associated
 3 with LBG, as well as Dr. Strauss and, I believe, Dr. Short.
 4 But my work is most responsive to Dr. Goldstein and
 5 Dr. Garvey, if it is Dr. Garvey. If it's not, I apologize.
 6 Q. You've given Mr. Goldstein a promotion and
 7 Dr. Garvey a demotion, I think, but--
 8 A. Let's strike that.
 9 Q. They have stayed in their seats, so I think we're
 10 okay.
 11 A. Yeah, I hope so.
 12 MR. EWING: I'm about to move into, you know, a
 13 little bit further on this and it would be helpful to give
 14 out your binders. Could we take about 10 minutes' break?
 15 PRESIDENT VEEDER: We can take 15, if you need it.
 16 MR. EWING: We will be able to hand them out
 17 quicker but if you'd like to take a break, a full 15, I'm
 18 happy, or--
 19 PRESIDENT VEEDER: We'll take a full 15, so we
 20 will start again at 3:00.
 21 MR. EWING: Thank you.
 22 PRESIDENT VEEDER: Again, please don't discuss the
 23 case as before.
 24 (Brief recess.)
 25 PRESIDENT VEEDER: Let's resume.

03:01 1 BY MR. EWING:
 2 Q. Mr. Connor, we started this morning with your or
 3 this afternoon with your presentation in which you included
 4 two slides with pits lined by predominantly clayey soils
 5 and your conclusion that the oil contamination is not
 6 migrating. We've now established that root canals and
 7 cracks in that predominantly clayey soil could cause
 8 migration. Would you agree?
 9 A. It's a question of scale. If you're talking about
 10 movement within a half a meter, for example, yes, that's
 11 been observed. There has been no migration on a larger
 12 scale of meters on the cases that I have observed to date.
 13 Q. So, you have seen no evidence that the TexPet--let
 14 me start over.
 15 You have seen no evidence that oil has migrated
 16 more than half a meter?
 17 A. When you say, "migrated," where and how? With
 18 which? I'm not clear on specifically what you're asking.
 19 Q. So, I'm looking at your Slide Number 37 from your
 20 presentation this morning.
 21 A. Yes.
 22 Q. And in that slide it's titled, "Weathered Oil Not
 23 Migrating."
 24 Do you remember this slide?
 25 A. Yes, I do.

03:03 1 Q. And you have a picture, a diagram of a pit with
2 various materials in it, including oily sediment,
3 rainwater, and semi-solid tarry material, and from what you
4 said this morning, I think your conclusion was the evidence
5 shows that the contaminants in this pit have not migrated
6 beyond .5 meters and the white line that you have drawn
7 around that pit; is that correct?

8 A. I don't believe you have interpreted that exactly
9 correctly. As I said during the presentation of the
10 slide--and this is indicated on the documents referenced at
11 the base of the slide--that dotted white line as based
12 represents the observation of the company that closed
13 hundreds of pits during the TexPet remediation project, and
14 their observation was that, yes, the soils bordering the
15 pit did contain oil, and that commonly it would require
16 scraping the walls of the pit about half a meter away.

17 Then my own observations, and based on all the
18 data by all the Parties are that we have not observed oil
19 to have migrated in terms of meters away from these pits,
20 even the open unclosed pits as demonstrated by soil
21 borings, and that is generally the case.

22 Q. So, you have not observed oil that has migrated
23 more than one meter?

24 A. I can't say that, Mr. Ewing. I can say that the
25 borings that were located in proximity to these pits, that

03:07 1 stepped out from the center of the pit to find the edges of
2 the pit; is that right?

3 A. Yes, there was a series of step-outs that were
4 done in order to find the general location of that pit, in
5 concert with historical aerial photographs and other
6 evidence that might be available.

7 And then samples were taken beyond that footprint
8 to determine if there had been lateral migration. The
9 proximity of those borings to the edge of the pit were
10 quite variable, but the observations were consistent, that
11 we did not observe or I did not observe in that compilation
12 of data that there was migration laterally from the pits
13 such as that it would affect off-site areas.

14 Q. And there was a Judicial Inspection at Lago Agrio
15 2; correct?

16 A. Yes.

17 Q. So, Chevron would have delineated that pit;
18 correct?

19 A. Chevron in that case, the Chevron Expert was asked
20 during the Judicial Inspection to do perimeter samples
21 around the site rather than the pits. That pit was
22 identified during the Judicial Inspection, and the data
23 from that are provided in the Judicial Inspection Rebuttal
24 Report rather than the Judicial Inspection Report itself.
25 So, that pit was identified but the specific boundaries of

03:05 1 were within meters of those pits, we have not observed oily
2 impacts on those soils. Those borings are located
3 different distances at different sites, but in combination
4 with all those put together, we are not seeing lateral
5 migration of oil through these soil types.

6 Q. And in your Statement referring to soil borings,
7 are you including LBG's analysis in 2013 and 2014?

8 A. Yes, I am.

9 And I did note that there was one boring put in by
10 LBG at the Lago 2 site that was a monitoring well that did
11 detect hydrocarbons that suggest they had moved from a
12 nearby pit called Pit 3A. It's not a great distance, but
13 the data do indicate there has been some motion.

14 Q. How far had that contamination moved?

15 A. Well, I can't say that it had moved, but it was
16 detected within some meters of the estimated boundaries of
17 Pit 3A. Either--the pit boundaries are not known. They
18 haven't been defined, but the boring did not appear to have
19 been drilled through contaminated soil; and, therefore, by
20 my estimation, would provide a more reliable estimate or
21 measurement of the water; and in that location there is
22 affected water by hydrocarbons. It appears it did not come
23 from above; it must have come from a lateral location.

24 Q. You said one of the purposes of the Judicial
25 Inspections was to delineate the pits; correct? And you

03:08 1 that pit were not the subject of the Judicial Inspection.
2 Rather, perimeter borings, as they're termed, were placed
3 to the north and south, east and west of the site per the
4 Judgment of the judicial inspection Expert and in
5 comply--as their Judgment as to how to meet the request of
6 the Court.

7 Q. I think, Mr. Connor, you're trying to anticipate
8 where I'm going with these questions. We will talk about
9 in detail about Lago Agrio 2, but not right now. The
10 question was: Did Chevron delineate the pit at Lago Agrio
11 2? And I understand your answer is no, because you
12 understand that the Judge asked for site delineations, not
13 pit delineations; is that correct?

14 A. Yes, I read the Acta for that site, and the
15 specific request that was put forward by the representative
16 for Chevron was for a site delineation; and normally that
17 was the case, that it was more to evaluate the general site
18 characteristics rather than individual pits. In some
19 cases, the experts did do individual pits. They did not in
20 that specific case.

21 Q. In addition to roots or fissures in clay being one
22 way that contamination may migrate, depending on the
23 distance, would you also agree that oil contamination can
24 migrate out of pits by overtopping those pits?

25 A. Yes.

03:10 1 Q. Would you also agree that the oil contamination
2 can migrate if the pit walls fail?
3 A. If the pit walls fail for an open unremediated pit
4 that contains liquid material.
5 Let me get my question a little more succinct. If
6 you're talking about a geotechnical failure of the dike
7 around the pit such that it ruptured and there was liquid
8 material in there, yes, it could exit that pit and flow
9 across the ground surface. Is that what you're asking?
10 Q. It is, but let me put that in lay terms.
11 If the walls of a pit break, the contents can come
12 out; right?
13 A. Just to be clear for the purpose of the Members of
14 the Tribunal, the pit has a subsurface and above-surface
15 portions. The above-surface portion is surrounded by a
16 dike, much like the country of The Netherlands, which you
17 may be familiar with. If that dike breaks above surface,
18 if the water level is above the base of that dike, those
19 fluids can exit, and if there are liquid oils in that, it
20 would exit as well.
21 Q. And if a pit had oil in it, and it was simply
22 covered with dirt and then the dike broke, that oil could
23 come out as well?
24 A. If--I guess the exception to that case, Mr. Ewing,
25 is that once the pit is covered with dirt, there is no

03:11 1 longer any physical extension of the dike above ground
2 surface; it's been leveled. Therefore, there is no
3 propensity for there to be a rupture of that physical
4 feature above ground surface. Rather, that type of a
5 failure would require a rupture of the subsurface
6 surrounding clay material, which, from an engineering
7 perspective, is not likely to occur because of earth
8 pressure.
9 Therefore, I would not expect there to be that
10 type of release, unless that release would occur above the
11 ground surface, not below the ground surface.
12 Does that make sense?
13 Q. It makes sense, but it seems to be based on the
14 assumption that pits are dug into a large flat level area.
15 If a pit is dug into--next to the side of a hill, you no
16 longer have--what did you call it? The ground tension or
17 the ground strength to maintain it. You simply have a wall
18 of your pit. Would you agree with me about that?
19 A. So, your hypothesis is that a pit is constructed
20 at the edge of a steep incline, and if that incline were to
21 fail, would the contents of the pit exit?
22 Q. Correct.
23 A. Yes, I would agree with that.
24 Q. And you are aware of examples where pits
25 overtopped?

03:13 1 A. Yes.
2 Q. And are you aware of examples of where Sand
3 fractures and fissures allowed oil contamination to
4 migrate?
5 A. In the Oriente region of the Concession?
6 Q. In the Oriente Region.
7 A. I observed one location where that had occurred
8 that via Sand migration, and that was at the Shushufindi
9 Norte production station during the Judicial Inspection
10 that I described where I worked in concert with Mr. Davila.
11 There is one pit there that had been recently constructed
12 that contained fresh oil excavated into Sand in which there
13 was seepage of that fresh oil.
14 Q. Are you aware of any studies--
15 A. And that was in the year--I'm sorry, I should
16 specify. I believe it was in the Year 2004-2005. Sorry.
17 Q. Are you aware of any studies conducted by TexPet
18 or Texaco identifying the soil type before the pits were
19 dug?
20 A. No, I'm not aware of records of what
21 investigations they did on the soils at the time, not that
22 I had seen in this Concession Area.
23 Q. After TexPet or Texaco was leaving the Oriente,
24 there were two audits conducted of TexPet's operations;
25 correct?

03:15 1 A. There were two audits conducted of the Concession
2 operations because at that time TexPet had not been
3 operating for two years, but yes, there were two audits
4 conducted in the period of 1992 to 1993.
5 Q. So, when you clarify that TexPet had not been
6 operating for two years, TexPet was still part of the
7 Concession from 1990 to 1992; correct?
8 A. You know, I don't know what the legal arrangements
9 were. I believe that is my understanding, but they no
10 longer were operating. After June 30, 1990, all the
11 information I reviewed indicates that Petroecuador became
12 the sole operator of that facility, and TexPet was no
13 longer involved in the day-to-day operations.
14 Q. The two audits, one was conducted by HBT Agra and
15 one by Fugro-McClelland?
16 A. Yes.
17 Q. And HBT Agra's audit was a joint audit between
18 TexPet and Petroecuador; correct?
19 A. That's my understanding, yes.
20 Q. And Fugro-McClelland was hired just by TexPet?
21 A. I believe that's correct.
22 Q. You described one of the purposes of the
23 environmental audits of the former Concession Area was to
24 characterize the current environmental conditions
25 immediately after TexPet left in 1992 to 1993?

03:16 1 A. Are you looking at a particular document that we
 2 could share?
 3 Q. Of course. I wasn't particularly, but we can look
 4 at your 2010 Report, Paragraph 49.
 5 A. Yes, I'm looking at that page now.
 6 Q. And in your opinion, these audits, "represent a
 7 very thorough audit of oil field operations in the
 8 Concession." Correct?
 9 A. Yes, and I explain in the paragraph what I mean by
 10 that. They inspected a very high percentage of the
 11 facilities in combination, 75 percent of the facilities,
 12 the audits that I have conducted of many other oil field
 13 facilities are commonly on the order of only 5 to
 14 10 percent of the facilities, so these audits were
 15 exceptional in that regard.
 16 Q. First, you just said that you typically inspect 5
 17 to 10 percent of facilities. Is that what you just said?
 18 A. Yes, that's what I just said.
 19 Q. And based on that analysis of 5 to 10 percent of
 20 facilities, you were able to draw conclusions about the
 21 larger whole?
 22 A. Those particular audits are regulatory compliance
 23 audits, and they are specifically designed in accordance
 24 with the protocols that were first developed in the early
 25 Nineties to be of adequate design to characterize the

03:18 1 environmental management system of the organization and its
 2 ability to meet those regulations at the range of
 3 facilities. That's different from estimating a volume of
 4 impact. It's directed more towards--it's like an
 5 accounting audit. But normally in those, it's a 5 to
 6 10 percent survey. These were very different.
 7 Q. And what HBT Agra did was inspect, physically
 8 inspect, 50 percent of the well sites; is that right? And
 9 I'm just looking at the middle of that paragraph.
 10 A. Yes, that's the understanding I had from reviewing
 11 their materials, correct.
 12 Q. And that's 163 wells, according to your Report
 13 here?
 14 A. Yes, that was the information I obtained from the
 15 report.
 16 Q. Do you remember how many samples HBT Agra took to
 17 evaluate the 163 sites that they visited?
 18 A. No, I don't recall.
 19 Q. If you could turn to Tab 17. This is Page 6-21 of
 20 the HBT Agra report. It says here they took 196 samples.
 21 A. What page, 621?
 22 Q. 6-21.
 23 PRESIDENT VEEDER: It's not that easy.
 24 MR. EWING: Excuse me?
 25 PRESIDENT VEEDER: Tab 17?

03:20 1 MR. EWING: Tab 17. 6-21. So it's Page 21 of
 2 Section VI.
 3 PRESIDENT VEEDER: The pagination is on the
 4 left-hand side.
 5 Mr. Connor, have you got it?
 6 THE WITNESS: Yes, I have it. Thank you.
 7 BY MR. EWING:
 8 Q. They took 196 samples; is that correct?
 9 A. That's what the document says, yes.
 10 Q. And that's just over one sample per site.
 11 Let me save you the time. It's 1.2 samples per
 12 site.
 13 A. I think it's about 1.2 samples per site. It is
 14 whatever amount that they judged necessary to reach their
 15 conclusions. And it was satisfactory to their sponsors of
 16 their work.
 17 Q. And you remember reading that HBT Agra found that
 18 95 percent of the soil samples exceeded background levels
 19 of oil contaminants?
 20 A. I don't recall that specifically, but given that
 21 they were specifically sampling the observed spills, that
 22 would be consistent with their sampling practice.
 23 Q. And this is on Page 6-22. On that page it also
 24 says that over half of the soil samples taken were above
 25 the 5,000 micrograms per gram standard they were using?

03:22 1 A. That's correct. That's what it says.
 2 Q. And 5,000 micrograms per gram, is that the same as
 3 5,000-milligram per kilogram?
 4 A. Yes.
 5 Q. So, over half of the samples they took were above
 6 the 5,000-milligram per kilogram standard?
 7 A. That's correct.
 8 Q. And also on that page, they found that a wide
 9 variety of sampled areas contained oil and grease levels
 10 which exceed the criterion?
 11 A. Correct.
 12 Q. And that the "principal contaminant in analyzed
 13 soils is oil"--this is on Page 6-23--"and that mobile and
 14 toxic hydrocarbon compounds were also present"?
 15 A. Where are you now on 6-23? Can you point me to
 16 the paragraph?
 17 Q. It's on the screen. It starts: "In summary, the
 18 analytical data suggests or suggest."
 19 A. Yes, that's correct. Their audit found that there
 20 were materials to be addressed, and they described that in
 21 their document.
 22 Q. And could you please now turn to Tab 11, that's
 23 going to be in your first binder, just to keep you on your
 24 toes. And towards the bottom right you will see page
 25 numbers that start with CA-5, and we're most interested in

03:24 1 the 697, the last three numbers. This is Table 6-4.
 2 And you understand this is the scoring system that
 3 HBT Agra used to rate the potential environmental impacts
 4 that they found?
 5 A. That's what I understand it to be, yes.
 6 Q. And under "high," it lists "pit containing oil is
 7 present. Contaminants appear to have migrated out of the
 8 pit."
 9 Do you see that?
 10 A. Yes, I see that.
 11 Q. So, you would agree with me that where HBT Agra
 12 assigns a "high" rating, the auditors saw pits with oil
 13 present that had migrated out of the pits?
 14 A. Yes, on the surface, if you read the report. They
 15 weren't drilling borings to find that. They had been
 16 overtopping those pits, and they were identified as things
 17 that need to be remediated, and subsequently were
 18 remediated as part of the Remedial Action Plan.
 19 Q. Is it your testimony that all of the pits that HBT
 20 Agra found as "high" were remediated as part of the RAP?
 21 A. No. The RAP was an agreement between the Parties,
 22 it listed a specific list of pits at specific sites and
 23 those were remediated in the RAP. Others that HBT Agra may
 24 have observed, if not included in the RAP, could remain
 25 after the RAP, some of them still do today.

03:26 1 Q. So, when you said they were identified as things
 2 that needed to be remediated and were subsequently
 3 remediated as part of the Remediation Action Plan, you
 4 meant that some of them were remediated by TexPet as a part
 5 of the RAP?
 6 A. Yes. Only TexPet did the remediation.
 7 Petroecuador did not do their remediation until many years
 8 later with the inception of the PEPDA program.
 9 Petroecuador has undertaken an aggressive program to
 10 remediate pits that had been left to life out over 20
 11 years.
 12 Q. Again, I would ask you to try and constrain
 13 yourself to the questions.
 14 Could you turn to the page that ends in 700, so
 15 it's CA-5 000700.
 16 A. Yes, I see that.
 17 Q. And at the bottom of the page, you can see there
 18 is an entry for Auca 1. It's A-U and then a one.
 19 A. Yes.
 20 Q. And it has a listing of "high"?
 21 A. Correct.
 22 Q. And in the comments for this site it says: "Well
 23 pad spill. Pit seepage."
 24 A. Yes.
 25 Q. And you would agree with me that given the rating

03:28 1 of "high" and the comments of "pit seepage," this means it
 2 was a pit containing oil seeping outside of the pit.
 3 A. I think that would be consistent with their
 4 classification system, yes.
 5 Q. And if you turn one page earlier, to 699, if you
 6 look at Shushufindi A 30, this is also classified as
 7 "high"; correct?
 8 A. Yes.
 9 Q. And again this would mean that there are pits
 10 containing oil that has migrated out of the pit?
 11 A. Correct, due to overtopping or other events like
 12 that, but they weren't indicating a subsurface migration,
 13 they're not tagging these for remediation.
 14 Q. To clarify, they're not indicating anything about
 15 how it's migrated; correct?
 16 A. In that language they're not, but as you noted,
 17 that there were not an extensive number of soil samples
 18 taken, sufficient for their purposes and sufficient for
 19 their clients. However, they did not conduct borings
 20 around these pits, they made physical observations of the
 21 ground surface. So, accordingly, in the context of the
 22 Report, if you read it carefully, those observations
 23 indicate surface seepage which can occur and apparently did
 24 occur in these cases.
 25 PRESIDENT VEEDER: Mind if I ask a question? The

03:29 1 first was in reference to pit seepage, and the second
 2 reference was to pit discharge. What's the difference, do
 3 you think was intended by the different terms?
 4 THE WITNESS: I can answer that. I should be
 5 cautious. I will interpret it as I see it and not
 6 necessarily how they use the words.
 7 A pit seepage would suggest that fluids were
 8 coming through the surrounding soil, they were seeping
 9 through it, much like cheese can sweat when you can see the
 10 fluid coming out of it. Whereas a discharge would be an
 11 overtopping, an actual fluid flow that would move over the
 12 top of the dike and flow as a liquid rather than seeping.
 13 Does that make sense?
 14 PRESIDENT VEEDER: You tell me.
 15 THE WITNESS: I think it does. So, one is a slow
 16 seepage through a soil face and the other is actually a
 17 fluid flow over the dike.
 18 PRESIDENT VEEDER: Thank you very much.
 19 BY MR. EWING:
 20 Q. As President Veeder just pointed out, this says
 21 pits discharged to the stream, so the stream seems to have
 22 received some of the pit's contents. Would you agree with
 23 me?
 24 A. Yes.
 25 Q. And do you know if that stream was remediated

03:31 1 during the RAP?
 2 A. I would have to look to see. I'd have to look at
 3 the RAP records to see if that was addressed or not.
 4 There's a lot of sites in there. I can't recall offhand
 5 without checking. If it was assigned to TexPet, there were
 6 a number of remediations of that nature, but I don't recall
 7 if this specific site was on that list.
 8 Q. So, you are testifying now that the RAP included a
 9 number of remediations of streams?
 10 A. Yes.
 11 Q. And you visited this site in December 2003;
 12 correct?
 13 A. Which site?
 14 Q. Shushufindi 30.
 15 A. I would need to look at my list. I have it--would
 16 you mind if I looked in my Report on that chart? It says
 17 when I visited.
 18 Q. You may look at any of your Reports at any point.
 19 Please.
 20 A. Okay.
 21 Yes.
 22 As it says on Table 2(c) in my September 3rd, 2010
 23 Report, I conducted a Pre-Inspection of this site in 2003,
 24 and I believe that would it have been December 2003.
 25 Q. And do you remember whether you investigated this

03:34 1 standard construction was that, as the backhoe excavates
 2 the pits, the soils that are moved are placed around the
 3 pit in a dike to provide extra fluid capacity, so some
 4 portion is below ground, some portion is above ground.
 5 Q. How thick are those walls of the dikes that they
 6 put around the pits?
 7 A. I don't know. They appear quite variable, and I
 8 can't recall all of them. Some dikes would be a meter
 9 thick or more, and there could be some--there were some
 10 that were less.
 11 One of the pits that I saw that remained open, the
 12 dikes were not always present in the non-RAP pits.
 13 Q. So, at Shushufindi 55, your testimony is that the
 14 oil contamination has seeped through the dike walls based
 15 on what HBT Agra found?
 16 A. I told you that that's my interpretation of their
 17 language, and it appears there is some release from that
 18 pit that they're recording.
 19 Q. And we will come back to Shushufindi 55. And as
 20 you know, and I think as the Tribunal knows, we will be
 21 going there on a site visit. But for now, could you turn
 22 to Page 960 in the same document, so it is Tab 11
 23 CA-5 000960.
 24 And just so the Transcript is clear for the
 25 future, when we all go back to read this, this is

03:32 1 stream?
 2 A. No, I don't remember that.
 3 Q. I am just asking your memory. We will come back
 4 to it potentially later.
 5 Turning back to the HBT Report, could you look
 6 down a little bit further, the Shushufindi B55.
 7 A. Is that on the same Page 699?
 8 Q. Correct.
 9 A. Yes, I see that.
 10 Q. And again, it says the rating is "high;" correct?
 11 A. Yes.
 12 Q. And again it says "pit seepage."
 13 A. Correct.
 14 Q. So, your understanding of pit seepage is that is
 15 oil contaminant that is coming out of the soil from that
 16 pit?
 17 A. My understanding is that would be fluid seeping
 18 through the earthen dikes around the pit above surface such
 19 that you could visibly observe that. I think that's how I
 20 would interpret that. Although I'm not certain exactly
 21 what they mean by that.
 22 Q. So, your understanding is that, let's say just for
 23 example, half of a pit will be below ground level, and then
 24 half of a pit will be dikes around the pit?
 25 A. I don't know if it's half and half, but the

03:36 1 Claimants' Exhibit C-13.
 2 So, this is still a part of the HBT Agra Report
 3 from 1992 to 1993, and this table, F-5 is a description of
 4 contamination associated with well site pits.
 5 Do you see that table?
 6 A. Yes.
 7 Q. And in the middle of the page, do you see their
 8 assessment that there are a total of 126 "yes" pits?
 9 A. I don't think I'm following that. Do you have
 10 that highlighted on your screen?
 11 Q. Yes.
 12 A. It's on the middle of the page, total yes, I
 13 believe I do see that now.
 14 Q. And their assessment, "there were 126 open or
 15 closed pits with evidence of oil in the pit and/or evidence
 16 of oil migrating beyond the confines of the pit."
 17 Do you see that?
 18 A. Yes, that's correct.
 19 Q. And if you go down a few lines, do you see that
 20 the total number of pits is 202?
 21 A. That's correct.
 22 Q. So, in HBT Agra's analysis, that was primarily
 23 visual, they found 126 out of 202 pits had evidence of oil
 24 in the pit and/or migrating beyond the confines of the pit;
 25 would you agree?

03:38 1 A. Yes, I would agree with that, with the caveat that
2 given, as you pointed out, they were not drilling beneath
3 the ground but these were observations at the ground
4 surface. They saw that oil had overtopped or otherwise
5 left the confines of that pit.

6 They did do other subsurface investigations, and
7 they concluded that there was not significant migration
8 subsurface. So, comparing to my work, we would discuss
9 those latter observations, the subsurface. But on the
10 surface, yes, they found materials had gone beyond the
11 confines of the pit, in a number of circumstances.

12 Q. So, as far as you know, HBT Agra never used the
13 backhoe to excavate or analyze any of these pits?

14 A. Yes, they did do backhoe tests, and they provided
15 information for that.

16 Q. Wouldn't a backhoe test be subsurface analysis?

17 A. Yes, it is. And based on those backhoe tests they
18 conclude that that have not observed significant subsurface
19 migration or impacts on groundwater, and that's an
20 important observation in their report. They do see pits
21 that need attention. They do see materials on the surface
22 outside the confines of that pit. But in whole, the
23 conclusions that they raise or they come to, and I have
24 explained those in my 2013 Report, are they do not have
25 significant subsurface problems with these pits.

03:42 1 what they're doing with these numbers, but, you know, the
2 numbers they present or what they say. So, I'm not quite
3 sure if the 43 is part of the 50. I haven't been able to
4 figure that out.

5 Q. So, they definitely, though, are saying that 50
6 have oil wastes confined in the pit, 43 have oil wastes in
7 open pits where that oil has migrated beyond the confines
8 of the pit, 33 have oil wastes in covered pits where the
9 oil waste is present beyond the confines of a pit. That's
10 what they're saying.

11 A. Oh, I see it. Yeah, yeah. The 33 and the 13 are
12 the sum of all of the covered pits that they have seen.
13 There is 46 of those. They talk about that early in the
14 Report and they indicate that the majority of those were
15 pits that were closed between '90 and '92, and that was
16 what I was speaking about earlier in my presentation. So,
17 those are--so, those two should be added to get the total
18 number of covered pits.

19 Q. Right. And I wasn't asking about the total number
20 of covered pits. I'm just asking, they're finding 43 open
21 pits with oil migrating, 33 closed pits with oil migrating?

22 A. Correct.

23 Q. And this Report was submitted in 1994; right?

24 A. I believe the date is 1993. They submitted two
25 different reports, one that had a Corrective Action Plan in

03:39 1 Q. You see below here also that they found 50 pits
2 with liquid oil confined to the pits; right?

3 A. Yes.

4 Q. And 43 of those where that oil waste had migrated
5 beyond those open pits.

6 A. Are those the same pits, do you think? I'm not
7 sure I'm reading that correctly.

8 Q. My understanding is that there are 76 total pits
9 where oil had migrated beyond the open or closed pit.

10 Is that how you would read that?

11 A. No, I haven't looked at this table carefully
12 enough to understand that.

13 Q. Take your time for a moment.

14 A. So, I--oh, you want me to look at it? Okay.
15 (Witness reviews document.)

16 A. Can I borrow a pen or a pencil? Or other
17 stenographic device?

18 Q. Of course.

19 A. Hey, thank you.

20 Thanks, Professor.

21 (Pause.)

22 Q. Mr. Connor, I think we can agree that HBT Agra
23 doesn't necessarily organize how we would have liked them
24 to organize.

25 A. I'm sorry, Mr. Ewing. I can't quite figure out

03:44 1 it, and one that did not, and it's--they're hard to keep
2 straight.

3 There is a final version that's submitted in 1997.
4 So, the publication dates can be a bit confusing.

5 Q. Let's skip the publication date. This analysis,
6 this review that they did was between 1992 and 1993;
7 correct?

8 A. I believe that most of the site investigation work
9 was in the Year 1992.

10 Q. And if you could turn back to page--it ends in
11 957. So, it's CA-5000957.

12 A. Yes.

13 Q. And do you see the entry here for Sacha 94?

14 A. Yes, I do.

15 Q. And there are two pits described in the table for
16 Sacha 94; right?

17 A. Yes.

18 Q. And according to the key on this table, these pits
19 have oily waste present in them. Do you see that?

20 A. Just a moment.

21 (Pause.)

22 Yes, that's correct.

23 Q. And in the column that says "oil condition,
24 fluid/tar," at Sacha 94 they found fluid oil in them;
25 right?

03:46 1 A. That's what it says, yes.
 2 Q. And that's not the only well site for well pits
 3 that we see on this table with fluid oil in them; correct?
 4 A. Yes. They do contain fluid, as do the presently
 5 open pits.
 6 Q. And you visited this site at least three times as
 7 a part of Chevron's Pre-Inspections. Do you remember that?
 8 A. I did visit this site. I could refer to my Report
 9 to tell you the dates and how many times, if you wish.
 10 Q. My understanding is that you visited on
 11 January 15th, 2004, May 27th, 2004, and July 27th, 2004.
 12 Do those sound approximately right?
 13 A. I don't know when I visited the site.
 14 Q. It was in 2004? You can look at your Report,
 15 Mr. Connor. Please.
 16 A. Well, I'm just telling you, I mean, whenever I
 17 visited, I visited. I just don't remember the dates.
 18 Q. Okay. And you were aware that TexPet shut in this
 19 well in 1986?
 20 A. Am I aware as we sit here today? I may have been
 21 aware of that one time. I don't remember the details of
 22 this particular well site.
 23 Q. And I put up here an excerpt from the clickable
 24 database that GSI prepared for Sacha 94, and this is an
 25 excerpt from the Fugro-McClelland report, Table 6.2, and

03:49 1 A. If the shut-in has been properly implemented, no,
 2 you would not expect there to be continued production until
 3 such time as an operator decided to do so.
 4 Q. And we can assume that TexPet would have properly
 5 shut in its wells?
 6 A. I saw no evidence that they had not done that, but
 7 I did not assess that as part of my work.
 8 Q. So, when HBT Agra auditors inspected Sacha 94 in
 9 1992 and saw fluid oil, the well had stopped all oil
 10 production for approximately six years; is that correct?
 11 A. If these numbers are correct, that would be
 12 correct. I can't speak to whether or not the information
 13 in the database is complete. But if we accept those
 14 numbers, yes, that would be approximately six years.
 15 Q. So, accepting that Fugro-McClelland has an
 16 accurate date for when the well was shut in, and HBT Agra
 17 accurately recorded when they actually went there, that's a
 18 six-year period between the end of production and when the
 19 site was investigated; right?
 20 A. Correct.
 21 ARBITRATOR LOWE: Sorry, just a small point of
 22 clarification. The line above the line that you're
 23 referring to has two dashes in the box for the shut-in
 24 date. Could you just explain the significance of that? Is
 25 that a separate facility, or is it an aspect of the same

03:48 1 this shows that this well was shut in on October 14th,
 2 1986; right?
 3 MS. RENFROE: Pardon me, Mr. Ewing, do you have a
 4 tab number?
 5 MR. EWING: Tab 21.
 6 MS. RENFROE: Thank you.
 7 MR. EWING: You're welcome.
 8 THE WITNESS: Sweet.
 9 BY MR. EWING:
 10 Q. Don't get too excited. It's not the whole
 11 clickable database.
 12 A. The tab number again?
 13 Q. 21.
 14 And when a well is shut in, that means its
 15 production of oil stops; correct?
 16 A. "Shut in" means that it's temporarily removed from
 17 service. It hasn't been plugged and abandoned, and it
 18 retains the capacity of being re-entered and used for a
 19 variety of different purposes. But it's shut-in at that
 20 time commonly would involve the placement of a plug to
 21 isolate the surface from the production zone, a temporary
 22 plug that can be removed.
 23 Q. So, when a well is shut in, you would not expect
 24 oil to continue coming out of it unless someone came back
 25 and removed the plug; correct?

03:51 1 well?
 2 MR. EWING: I would be happy to explain, but I
 3 would also be happy to give it to Mr. Connor.
 4 THE WITNESS: I'm glad to make you happy.
 5 That refers to the same well, but it's two
 6 different actions taken at the same well. If you look at
 7 the different lines in that row, starting at the far left,
 8 you will see they're identical. Well Number Sacha 94, spud
 9 date--that means the date that the drilling commenced or
 10 the same date. Completion date is the same date. Last
 11 workover date. Everything is the same until you get to the
 12 date of the production method. At that well, the pump has
 13 been--a submersible pump has been replaced with a hydraulic
 14 pump in 1986. And shortly after that, the well is shut in.
 15 So, yes, they do refer to the same well.
 16 Q. And Mr. Connor, in your 2010 Report to this
 17 Tribunal, you listed the Judicial Inspection Reports as
 18 cited documents in your Report; is that correct?
 19 A. I did cite a number of them, and I believe I put
 20 as many of them as I could in there. Yes, they were cited.
 21 Q. But not all of those were actually submitted with
 22 your Report?
 23 A. I don't know which of those were submitted with
 24 the Report.
 25 Q. And did you rely on those reports in coming to

03:53 1 your conclusions in your 2010 Expert Report?
 2 A. I relied on the entirety of the data that was
 3 compiled in those reports. I did review those reports for
 4 their conclusions. My conclusions were not wholly
 5 dependent on those reports. They were dependent on all of
 6 the data that was collected by the different Parties,
 7 including the Plaintiffs and Mr. Cabrera.
 8 Q. And in your list of cited documents, Shushufindi 4
 9 is the sixth from the top. And, to make this clear, it's
 10 Tab 5, and this is your 2010 Report at Page 81, and we have
 11 it up on the screen, if you would like to--it's easier that
 12 way.
 13 A. Oh, this is the 2010 Report?
 14 Q. Correct.
 15 A. Yeah, I'll just look at my own copy then.
 16 The page number again? Excuse me.
 17 Q. Eighty-one.
 18 A. Yes, I see that, and your--but I don't recall your
 19 question, Mr. Ewing. Excuse me.
 20 Q. Sorry?
 21 A. I didn't recall your question.
 22 Q. Shushufindi 4 is listed at the top of this page;
 23 correct? Sixth from the top?
 24 A. Page 81?
 25 Q. Correct.

03:55 1 A. Oh, under the list of--it's not from the top of
 2 the page but under the reports by experts nominated on
 3 behalf of Chevron.
 4 Yes, it's the sixth line under that heading.
 5 Q. And this was not a RAP site?
 6 A. I don't recall without looking at the list if it
 7 was or not.
 8 Q. If you want to look at the list, or look at the
 9 site summary for this Shushufindi 4, it is Tab 20. And we
 10 put the excerpt on the screen.
 11 And the Judicial Inspection Report submitted for
 12 this site was by Ernesto Baca. Do you remember that?
 13 A. That's indicated in the index here, yes.
 14 Q. And Mr. Baca worked for GSI at the time you wrote
 15 this Report?
 16 A. Yes.
 17 MS. RENFROE: Tab 20 pertains to a different site.
 18 THE WITNESS: Yeah, I'm not finding it.
 19 MR. EWING: It should say Shushufindi 4, unless
 20 our--
 21 MS. RENFROE: Tab 20 says Sacha 94.
 22 MR. EWING: Sorry, it is Tab 22.
 23 Thank you, Tracie.
 24 BY MR. EWING:
 25 Q. Could we turn then to--we have excerpts of the

03:57 1 Judicial Inspection Report for Shushufindi 4 at Tab 23. I
 2 provided to you excerpts because, as I think you know,
 3 Mr. Connor, these Judicial Inspection Reports can be
 4 thousands of pages, and we already felt guilty enough about
 5 the number of pages that we have printed.
 6 A. Okay.
 7 Q. Mr. Baca finds--
 8 MR. EWING: Actually, Mr. President, when--I don't
 9 remember when we started--when are we timed for a break?
 10 Do we want to go longer? Or should we stop for a break
 11 now?
 12 PRESIDENT VEEDER: I was looking over to see who
 13 decides these things. I think you should have a break now.
 14 We'll take a break, but can we just say we are going to
 15 finish by 5:30 today?
 16 MR. EWING: Yes, we can definitely finish by 5:30.
 17 I will probably have more questions than 5:30.
 18 PRESIDENT VEEDER: Then we will continue tomorrow.
 19 I just didn't want a repetition of yesterday.
 20 MR. EWING: 5:30 is perfect for us.
 21 PRESIDENT VEEDER: We think 5:30 would be the
 22 latest.
 23 MR. EWING: 5:30 is great.
 24 PRESIDENT VEEDER: You will have more questions
 25 going over into tomorrow. Are you up to speed or behind or

03:59 1 ahead?
 2 MR. EWING: I think we are up to speed, would be
 3 my expectation.
 4 PRESIDENT VEEDER: Let's take ten minutes. And we
 5 will come back at ten minutes past 4:00.
 6 (Brief recess.)
 7 PRESIDENT VEEDER: Let's resume.
 8 BY MR. EWING:
 9 Q. Mr. Connor, would you turn to Tab 23, please. And
 10 this is the excerpts from Mr. Baca's Judicial Inspection
 11 Report of Shushufindi 4.
 12 A. Yes, I'm there.
 13 Q. And for our record, it is Exhibit R-954.
 14 And do you see where he says in the description of
 15 the well site that the well produced until 1984. That
 16 means that it produced oil; is that correct?
 17 A. Which page are you on, Mr. Ewing? I'm sorry if I
 18 wasn't paying adequate attention.
 19 Q. I'm sure it was my fault for missing the page.
 20 Page Number 2. Page numbers are important.
 21 He says the well produced until 1984. Do you see
 22 that?
 23 A. Yes, I do.
 24 Q. And when he says the well produced, he means the
 25 well produced oil until 1984; right?

04:11 1 And then he said it was converted to an injection
2 well for secondary recovery of petroleum crude; correct?
3 A. Yes, that's what he says.
4 Q. When he says, "converted to an injection well for
5 secondary recovery," do you agree with me that that means
6 that well changed from producing oil to injecting water
7 into the ground to assist with production at other wells?
8 A. Correct.
9 Q. So, this well was not producing after 1984?
10 A. Not according to the information we have here.
11 Q. And you have no reason to believe that Mr. Baca
12 was incorrect in his Judicial Inspection Report; right?
13 A. No, I have no reason to believe that he was
14 incorrect.
15 Q. And then Mr. Baca says that--skipping one
16 sentence--he says, in 1991, "the well site was abandoned
17 and thus became an inactive well."
18 A. I think I've lost you.
19 Q. So, there is the sentence we're looking at--
20 A. Oh, I see it now.
21 Q. And then the well's name gets changed.
22 A. Yes.
23 Q. So, the well site was inactive from 1991 until at
24 least 2005 when Mr. Baca wrote his Report; correct?
25 A. The well did not produce oil at that time. He's

04:13 1 not saying there wasn't any other type of activity at all
2 or use of the site, but it was not an active production,
3 according to this information.
4 Q. Do you have any indication that there was use of
5 the site that would cause contamination?
6 A. I haven't looked at the records to make that
7 determination for this site.
8 Q. If Mr. Baca thought there was some other source
9 for other contamination, wouldn't you expect he would have
10 included it in his Report?
11 A. If he was aware of that information, I expect that
12 he would have included it.
13 Q. And when Chevron conducted its PIs at the
14 site--and if you could turn to Tab 24--this is the site
15 summary for Shushufindi 4, and looking at Pit 1, the second
16 sentence, "Chevron found that surface seeps of highly
17 weathered crude oil were found on this former pit site."
18 Do you see that?
19 A. Oh, yes. It indicates above that that the owner
20 himself had covered these pits with earth and then
21 indicates that there was oil seeping through the surface
22 there.
23 Q. And if we could, just to see Chevron's
24 observations about Shushufindi 4, and then I have some
25 questions for you about those, I have a video clip from the

04:15 1 Pre-Inspection of Shushufindi 4.
2 (Video played.)
3 Q. In part from my own curiosity, what was this
4 gentleman's name?
5 A. If I'm correct, I believe that's John Slocum, but
6 the quality of the video and the outfit, I didn't quite
7 recognize him for sure.
8 Q. That was my guess. I just have not been able to
9 identify him in other videos.
10 Let's assume that's Mr. Slocum. His findings in
11 the video coincide with what has been written here on this
12 Report; correct?
13 A. I haven't read this very carefully, but in my
14 recollection what they're saying here is, yes, this was a
15 non-RAP pit that had not been remediated by Petroecuador,
16 and the owner had covered them himself, and there were
17 seeps coming through that soil cover.
18 Q. And this is at a well site that Mr. Baca had
19 already found had not been producing oil since 1984;
20 correct?
21 A. Yes.
22 Q. So, 20 years later, this well site is still
23 seeping oil, according to Mr. Slocum, as he was standing
24 there?
25 A. Yes. If you cover a pit with an earthen cover

04:19 1 similar to the ones that I showed in my presentation, then
2 the contents of that pit will seep up through the cover.
3 If you properly remediate that pit and solidify it per the
4 RAP specifications, that won't happen, but simply putting
5 earth over a pit like this will allow those liquid contents
6 to come out.
7 Q. For 20 years or more?
8 A. No, they're not--I guess, Mr. Ewing, the important
9 thing to note in that regard is that when the property
10 owner chooses to cover the pits, the oil is still in the
11 pits 20 years later. It's still there. It hasn't gone
12 away, and then he decides to cover it, and if it's not in
13 solidified form, that cover will displace that oil, and the
14 oil will seep out the top, just as it would in some of the
15 pits that the Tribunal may have the opportunity to visit in
16 the coming month.
17 Q. You testified earlier that in the Oriente
18 weathering occurs quickly in a matter of approximately a
19 month, I think you said?
20 A. I think I did say that. I talked about that a lot
21 in the various reports that I've issued, that the volatile
22 and soluble fraction of the oil may be gone within as
23 little as a month. It certainly depends on the
24 site-specific characteristics, but there is very rapid
25 weathering to lose those fractions, and then there is

04:20 1 slower weathering to convert to a principally resident
2 asphaltene fraction. But those very light ends are lost
3 rather quickly.
4 Q. So just to make sure this is clear, petroleum or
5 crude oil is made up of varying length chains of
6 hydrocarbons, C4, C6, C8, C10, C12, C14 and on up. And
7 that's the number of carbons in these chains of carbon;
8 correct?
9 A. Yes, except there is alkanes and aliphatics, some
10 in a ring shape and some are in a straight line, but there
11 are of different dimensions, yes.
12 Q. So, when oil is described, you're talking about
13 fractions, or you're talking about the light ranges or the
14 heavy ranges. When you referred to the light ranges, you
15 tend to mean the ones that are C4, 6, 8 and 10; is that
16 correct?
17 A. Yes, I think that's correct. Fractions of carbon,
18 molecules that have less than 10 carbons would generally
19 fall within the gasoline range organics, and that's a light
20 end. Considered light, yes.
21 Q. And your testimony is the gasoline range or these
22 light end carbons would disappear within one month within
23 the Oriente?
24 A. They would disappear relatively quickly. I
25 can't--my testimony is not that that will happen all the

04:22 1 time within a month, but that the rates of volatilization
2 and loss of that light fraction is so high as to make it
3 difficult to date a sample within a month's time.
4 Q. So, just--
5 A. Pretty much like if you were pumping gas at the
6 service station, that liquid that you spill on the ground,
7 that's light end hydrocarbon. And the short amount of time
8 after you spill it, it's gone. It's the same process that
9 occurs when crude oil is in the environment and loses its
10 light end--a little bit slower than that because it has to
11 get out of the oil, but it loses that relatively quickly.
12 Q. And that's though when you're at the gas station,
13 if you do spill or if someone else has spilled, that's the
14 smell you can smell typically. Is that the volatile
15 component of the gasoline; correct?
16 A. Yes, in that case, the smell would be associated
17 with the volatiles. With the crude oil, the smell is more
18 related to the thiol compounds which are a heavy sulphur
19 compound, but with gasoline, yes, you're smelling the
20 volatile compounds.
21 Q. And when you say "volatile," part of the
22 definition of "volatile" is it's those aspects that can be
23 released into the air?
24 A. In general, yes.
25 Q. Okay. So, you're saying that the volatile, the

04:23 1 gasoline range organics typically will weather or disappear
2 in a month, in or around a month?
3 A. Again, I wouldn't testify to it in a month. I'm
4 saying that it happens relatively quickly if the material
5 is exposed to the environment, particularly to the air. It
6 will use its volatile fraction.
7 There were many samples that were taken in the
8 pits, and there were trace level benzene measurements that
9 were found in some of the open pits, but the composition of
10 that oil was still consistent with the weathered oil. High
11 concentrations of that material are indicative of
12 relatively fresh oil, and those were seen at times as well.
13 Q. So just again clarify the technical terms, you
14 said trace levels of benzene. Benzene is one of the
15 components of the gasoline range of petroleum hydrocarbons;
16 correct?
17 A. Yes.
18 Q. So, when we look at Mr. Slocum's report from
19 Shushufindi 4, and he said on the video that they found oil
20 seeps, and then when he did his analysis about two-thirds
21 of the way through Pit one, it said one sample within the
22 pit demonstrated TPH DRO of 5,200 milligrams per kilograms
23 and TPH GRO of 24 milligrams per kilogram; right?
24 A. That's correct.
25 Q. So, this is a smaller amount of GRO, of the

04:25 1 volatiles; correct?
2 A. Yes. The fresh crude oil, if I remember the
3 numbers correctly in that field, contains on the Order of
4 20,000 parts per million of the light ends, the GROs.
5 That's determined by a topping test where that will be
6 removed. If I remember correctly, it's approximately
7 20 percent, so that 20,000 number in this case is
8 diminished down to 24, so it's clearly a very significant
9 loss of the light ends, although not a complete loss, most
10 likely due to the water cap that was on that pit.
11 Q. And again, this is 20 years after this pit was
12 shut in and no longer producing?
13 A. After the well was shut in.
14 Q. Correct. After the well was shut in?
15 A. Correct, that's right.
16 Q. In reality, this oil was probably put into this
17 pit well before that, before the well was shut in; correct?
18 A. We don't know that for sure, but if it were from
19 that well, it would have been before that time, yes.
20 Q. And you mentioned two things I'd like to come back
21 to. One is that the pit that was covered and, therefore,
22 you expected some of the GRO, the volatiles to still
23 remain, and you mentioned that it would be covered by soil
24 or by water. By covering a pit like this with soil or
25 water, that removes the oxygen; correct?

04:26 1 A. The pit that has a soil or water cap on it, and a
2 hydrocarbons source in it will see its oxygen consumed
3 relatively quickly by aerobic bacteria, and after that time
4 the anaerobic bacteria will dominate the digestion process
5 for biodegrading the oil, so you would expect the oxygen to
6 drop, Mr. Ewing, in a short amount of time.

7 Q. And I think you're anticipating my questions about
8 bacteria again.

9 The question is, and I think you would agree with
10 me, the oxygen would definitely drop when the pit is
11 covered with soil or with water?

12 A. Well, just to be clear, if you have an open pit
13 with oil in it, it's particularly in oily sediments, then
14 you will have consumption of the oxygen relatively quickly,
15 whether there is earth on top of it or not because the
16 oxygen will only be replenished by diffusion. That's a
17 very slow process, or by fresh rainwater falling in. But
18 it would not be enough to sustain the aerobic bacterial
19 process.

20 Q. And as a result of the fact that these pits are
21 capped with water or soil, that's why you then are not
22 surprised to see DRO of 5,000 or amounts of GRO in this
23 pit?

24 A. Well, the GRO that's in the pit is decreased by a
25 factor of 1,000-fold, but there certainly can be some

04:30 1 than if you're in an open pit.

2 Q. Mr. Connor, you reviewed all of the sites that LBG
3 sampled during 2013 and 2014; right?

4 A. Yes.

5 Q. And you have reviewed all of the data specifically
6 for the four sites that the Republic nominated for the
7 upcoming site visits; correct?

8 A. Those are included among those 13 if I recall
9 correctly, yes.

10 Q. Correct. The four are a subset of the 13?

11 A. Yes.

12 Q. So, your first answer, I guess, answers my second
13 question as well. You're right.

14 A. I hope so.

15 Q. And you have included your conclusions on those
16 sites in your Reports submitted after LBG's sampling was
17 completed; correct?

18 A. Yes, the sampling by the Ecuador experts was in a
19 number of phases, but I did submit reports after those
20 phases of work.

21 Q. So, if we look at Page 35 of your 2015 Report, and
22 you discuss Shushufindi 34, and you said, "it's an open
23 non-RAP pit located northwest of the platform and has yet
24 to be addressed by Petroecuador."

25 Do you see that?

04:28 1 remnants of that light end hydrocarbons held up within
2 those said sediments and oils in that pit, yes, but it's
3 1/1000th of what it was originally when placed in the pit,
4 if I remember my numbers correctly.

5 Well, excuse me. No, it's more. The 20 percent
6 is 220,000; 20,000 is only 2 percent, so that the original
7 fraction of GRO in that material should have been on the
8 Order of 200,000, and now it's 24, so that's 10,000 times
9 smaller, and that's consistent with what we have observed
10 when oil is placed in the open environment, so it's
11 1/10,000ths of its original light end composition, if I
12 remember my numbers correctly.

13 Q. So, to come back to my question, if you have a pit
14 that is covered with oil--rephrase that.

15 If you have a pit that is covered with soil, you
16 agree with me that the oxygen will be quickly removed from
17 that pit?

18 A. Yes, I believe the oxygen would be quickly
19 removed, whether or not the pit was covered with soil.

20 Q. So, open or closed, oxygen will be removed from
21 the pit?

22 A. It would be faster in this environment if it's
23 covered because rainwater in this area brings in three
24 meters a year, and rainwater is oxygen saturated. So, you
25 would have faster depletion of the oxygen if you're covered

04:32 1 A. Yes.

2 Q. And then looking at Appendix B--this is Tab 29 of
3 your Report--sorry. This is Tab 29 of our binder or
4 Appendix B of your Report?

5 A. Tab 29?

6 Q. It's Tab 29 in our binder.

7 A. Okay.

8 Q. If you would turn to Page 16.

9 A. Of Appendix B?

10 Q. Of Appendix B or Tab 29. They are the same.

11 And at the bottom of that page you see--you again
12 describe the open non-RAP pit, "The undocumented pit can be
13 clearly seen as early as 1975."

14 A. Yes, that was an aerial photograph that was
15 located by Mr. Cabrera and included in his document, and
16 then posted on the Petroecuador Web site, at which time
17 that pit was first identified.

18 Q. The pit at Shushufindi 34, you're saying, was
19 first identified in a Cabrera Report that was posted on the
20 Petroecuador Web site?

21 A. Yes, Mr. Cabrera compiled--he did an aerial
22 photography survey, and he compiled his list of identified
23 pits. This particular pit was on that list. And then that
24 list was used by Petroecuador. Sometime after that list
25 was issued or actually in the same year, two pits were

04:35 1 closed at this site by Petroecuador, but that pit was not
2 closed.
3 Q. Okay. So, if you could look at the images I have
4 on the screen, these are from your Appendix C, the 1976
5 image is on the left, and the 1985 image is on the right.
6 And in these images, we can see that the images--that the
7 pit is clearly there in 1976; right?
8 A. Yes, you can see that.
9 Q. And in 1985 you can no longer see it; right?
10 A. It may be due to vegetation overgrowing, but you
11 don't see it there at that time.
12 Q. So, in 1985, if I tried to walk to that pit,
13 you're saying that it looks to be overgrown by the jungle?
14 A. I believe if you went to that pit today, you would
15 see that it's surrounded by tall trees, unless they've been
16 cleared by the landowner, but in this case I can't say for
17 sure, Mr. Ewing, but you can see there's a lot of trees
18 that have grown into a formerly cleared area. You can't
19 say definitively whether the pit is still there or if it's
20 just obscured by the canopy.
21 Q. I can tell you this is not how it looks today, but
22 we will go to that when we take the Tribunal down there,
23 and we will discuss the site more. But for now you would
24 agree with me, though, that this pit is not evident in the
25 aerial photography as of 1985?

04:38 1 have been remediated as demonstrated by the other
2 facilities that we visited.
3 Q. And you've seen the photos that LBG has taken at
4 Shushufindi 34; correct?
5 A. I've seen some of them, yes.
6 Q. And just to refresh your memory, these should be
7 coming up on the screen now. This is the open pit at
8 Shushufindi 34 we will be visiting, and you can see there
9 it is no longer covered by tall trees.
10 A. That's right. I believe it looks like the natural
11 vegetation has been cleared and they planted papaya trees.
12 That's what it looks like today. So the open non-RAP pit
13 remains in place as they do at many sites.
14 Q. And do you dispute that these photos show liquid
15 oil?
16 A. It's difficult to say from this photo, certainly
17 you have groundwater in there and it looks very oily,
18 whether or not that's oil or the droplets have coalesced, I
19 can't say clearly without seeing it directly, but there is
20 clear evidence that there is oily material in that
21 location, yes.
22 Q. We will have a chance to see it in about a month's
23 time, so we will come back to these when we're standing
24 here, okay?
25 A. Okay.

04:36 1 A. In the 1985 photo, the pit is not discernible.
2 Q. And I don't think you mentioned it in your Report,
3 but this well was shut in by TexPet in 1983 as well;
4 correct?
5 A. I don't recall. I'd have to look at the records.
6 Q. Okay. And when LBG visited this site, they found
7 the liquid crude and, in fact, you note on page 16 of your
8 appendix that, "Ecuador experts claimed to have found free
9 flowing, liquid oil just below the surface within the pit
10 boundary."
11 A. I lost track of you there, Mr. Ewing. I
12 apologize.
13 Q. On Page 16 you just repeat what Ecuador's experts
14 had found, claimed to have found.
15 A. Yeah, I characterized--I actually quote a
16 statement from their Report.
17 Q. And you say, "claimed to have found." Do you have
18 any reason to believe that they didn't find it?
19 A. That word is just to characterize that this was
20 their statement. They stated that. I don't have any
21 reason to believe that that was not correct.
22 Q. And one of your explanations for why liquid crude
23 is still found in this pit from 1976 is if this pit was not
24 included in the TexPet RAP; is that correct?
25 A. Yes. If it had been in the TexPet RAP, it would

04:39 1 Q. Let's move on from Shushufindi 34 and talk about
2 Shushufindi 55, another site that we will be visiting and
3 that LBG investigated.
4 In your 2015 Report, at Page 37, which should be
5 the next page from where we just were, you were stating--
6 MS. RENFROE: Pardon me, we were just, and perhaps
7 I'm lost, but we were just in B-16 in the Appendix B of the
8 Report. Are you taking us to a different place in his
9 Report?
10 MR. EWING: Yes, I am. Let me correct my relative
11 references and make them absolute.
12 BY MR. EWING:
13 Q. If you could look into your January 2015
14 Report--this is Tab 19 of our binder, and we're looking at
15 Page 37.
16 A. Yes.
17 Q. And this is your one-paragraph description of
18 Shushufindi 55. Did you find that?
19 A. Yes, I have.
20 Q. And this is the same Shushufindi 55 where HBT Agra
21 found that the pit was seeping oil, that we were discussing
22 earlier. Do you remember that from about an hour ago?
23 A. No, I don't recall that, but that may be the same
24 well. This is a non-RAP pit, it may be the same one that
25 HBT Agra visited.

04:41 1 Q. Would you like to go back to it, or would you like
2 to take my word for it? We're still talking about
3 Shushufindi 55?
4 A. I don't think we need to go back to it, Mr. Ewing,
5 unless you prefer that I do that.
6 Q. No, I think that I'm right.
7 And you looked at Chevron's data and LBG's data
8 for this site; correct?
9 A. Yes.
10 Q. And you concluded that, and I quote your third
11 sentence, "sampling and testing at the Shushufindi 55 well
12 site show a limited extent of impacts to wetland sediments
13 beyond the foot print of the facility."
14 Do you see that?
15 A. Yes.
16 Q. And Mr. Cabrera also went to this site and sampled
17 at this site; correct?
18 A. Correct.
19 Q. And did you include his results in forming your
20 conclusion?
21 A. His results are not plotted on this map. The
22 Chevron results that were collected at that time are
23 plotted on this map.
24 Q. To be clear, we're not relying on those either at
25 this point. We're just talking about Chevron and LBG

04:43 1 results.
2 A. That's right.
3 And to be clear, in my risk assessment work
4 presented in the 2010 Report, I did consider all of
5 Mr. Cabrera's data and all of the Lago Plaintiffs' data but
6 in the delineation of the sites, I have not included those
7 data because they were not reliable for that purpose.
8 Q. Understood. You're anticipating a question I
9 haven't asked yet, and I don't think I will ask.
10 So, did you include--sorry.
11 Could you turn now to Tab 25. And this is the URS
12 Summary Report that was prepared for Chevron, and I think
13 you said earlier that URS was tasked with collecting the
14 historical documents about these various sites?
15 A. Specifically yes, specifically historical
16 documents related to the remediation program, the TexPet
17 remediation program, 1995 to 1998, but not the historical
18 records on spills, et cetera. Those are presented on
19 Exhibit A of my 2015 Report, Page 8.
20 Q. And we will get to your Report to deal with the
21 spills in a moment. If we could just focus on the URS
22 document first.
23 And looking at the third page, it has at the
24 bottom "GSI_0398701."
25 Do you see that?

04:45 1 A. Yes.
2 Q. And with this page's reference, we know that
3 Shushufindi 55 was drilled in 1975; correct? It's in the
4 second paragraph?
5 A. Yes, I see that.
6 Q. And that it was shut in on 1 January 1983;
7 correct?
8 A. Yes, that's what it says.
9 Q. So, after 1983, again assuming TexPet actually
10 shut it in when it says it shut it in--Shushufindi 55 did
11 not produce any oil; right?
12 A. There is an oil spill that occurred after
13 June 1990 at this site that's reported in my Report in the
14 exhibit I just recently cited to you. And I would have to
15 go into my records of Appendix C of my 2015 Report to get
16 you the exact date that that occurred.
17 So, my understanding--hang on a second.
18 Q. And Mr. Connor, just to save you the trouble, I
19 promise we will get to your Appendix C on Shushufindi 55
20 probably within the next 15 minutes, so if you could just
21 focus on the questions.
22 A. Okay, Mr. Ewing. I apologize if that's
23 frustrating you, but in answering your question, when you
24 say there were no oilfield--there was no oil production
25 and, therefore, inference that there would be no propensity

04:46 1 for a spill to occur, that's actually not correct in this
2 case, given that there were spills after that time, but I
3 don't believe there was production based on this
4 information, but there were other activities that
5 contributed to oil spills. If I had to be more specific
6 about that, I would have to look it up.
7 Q. Shushufindi 55 was not producing oil after 1983,
8 according to this URS Summary, a Chevron-created document?
9 A. The document that URS put together indicates
10 that's correct, yes.
11 Q. But it's your testimony that there is some future
12 spill after 1990 at this site that may have contaminated
13 the site?
14 A. Yes.
15 Q. Okay. It was abandoned in 1983 but it was not
16 plugged and abandoned until 1996; correct?
17 A. Well, the proper term would be shut in and then
18 plugged and abandoned. Sometimes I'm not sure of the
19 language being used there, but in 1996, this well under the
20 TexPet remediation program was formally plugged and
21 abandoned, which would destroy the well and install
22 permanent seals.
23 Q. So, after 1996, basically the top 100 feet of the
24 well is filled with concrete; is that your understanding
25 when it's plugged and abandoned?

04:48 1 A. No, that's not correct.
 2 Q. What is your understanding of what a plugged and
 3 abandoned well looks like?
 4 A. The plug-and-abandonment design varies according
 5 to the producing formation. Concrete plugs are placed at
 6 various steps within the well to isolate the production
 7 zones from the surface and from other subsurface zones.
 8 The casing will be perforated and destroyed, and the cement
 9 will be squeezed out of that through the casing into the
 10 surrounding areas to completely seal the well. Those plugs
 11 would be placed at a variety of different depths according
 12 to the petroleum engineers' design.
 13 But then at the surface, the casing is excavated
 14 and cut off to a depth that's below what's called plow
 15 depth such that anyone using the property or doing
 16 agriculture will not bump into that casing. There is a
 17 cement plug that's also placed at the surface there,
 18 although the depth of that plug would be variable based on
 19 the design. However, these wells are not plugged and
 20 abandoned simply by placing a concrete plug at the surface.
 21 It's a much more involved operation as I have described.
 22 Q. And no one realized that this pit or this well had
 23 only been shut in in 1983 until the documents were reviewed
 24 in 1986, and it was actually finally plugged and abandoned;
 25 is that right?

04:49 1 A. I guess I don't understand your question,
 2 Mr. Ewing.
 3 Q. So, this well was not plugged and abandoned for 13
 4 years after it was shut in; is that correct?
 5 A. Oh, according to that data, yeah, that's
 6 very--that's not an uncommon phenomenon. That a well is an
 7 expensive piece of equipment and it may have other uses.
 8 It could be reactivated for oil, it could be used for
 9 Geophysical Surveys, it could be used for injection. Once
 10 a party determines that it doesn't have those uses, then it
 11 may be plugged and abandoned and permanently destroyed.
 12 Q. If you turn to Page 4 of your Summary, and the
 13 pages are closest to the three rings, do you see the second
 14 paragraph where it says "surface soils were noted to be
 15 contaminated with degraded oil?"
 16 A. Yes, I do see that.
 17 Q. And at the end of the third paragraph, it says--or
 18 the middle of the third paragraph, "Hole Number 1," a hole
 19 that they dug during their investigation?
 20 A. Oh, yeah.
 21 Q. Do you see that?
 22 A. Yes, I do.
 23 Q. Was in an area of visible contamination and was
 24 14 inches deep.
 25 A. Yes, I see that.

04:51 1 Q. And this information is coming from the remedial
 2 investigation that was conducted as part of the RAP; is
 3 that correct?
 4 A. Correct.
 5 Q. And they noted that spotty contamination was
 6 observed along the walls of that hole.
 7 Do you see that?
 8 A. Yes, that's right.
 9 Q. And water was observed seeping from the sides with
 10 some oil floating on the water.
 11 A. Yes, that's on the surface of the pad, and that's
 12 why this site was included in the RAP for remediation of
 13 that soil. The well was plugged and abandoned, and this
 14 soil was remediated as part of the RAP.
 15 Q. So, it's your testimony that this soil that you're
 16 describing was remediated?
 17 A. Yes. If you look in the records you will see that
 18 those two holes are drilled into the effective material on
 19 the pad, and then there is a hand sketch--it might be
 20 actually in this package. There is a hand sketch that will
 21 indicate the approximate area to be remediated, and the
 22 Parties would then come and do a soil stabilization.
 23 Here it is. It is on Page 708. Yeah, this is a
 24 comment--it's easier to read on Page 707. It's pretty hard
 25 to read on either page.

04:53 1 Q. It is difficult to read the maps.
 2 A. But nevertheless, this is how they record it.
 3 They would drill these holes on the pad, identify the areas
 4 to be cleaned, and then include those in the RAP, and
 5 that's what was done here.
 6 Q. So, when they're describing that Hole 2 also had
 7 contamination with seeping oil, your testimony is that that
 8 was remediated?
 9 A. Yes, you could read the Remediation Report and see
 10 that's the case.
 11 Q. Okay. If we turn to Page 9, which is that RI
 12 field sketch that you were referring to--actually, I jumped
 13 ahead too quickly.
 14 Could we stay on Page 4 which is still the
 15 description.
 16 A. Okay.
 17 Q. And the last two lines here on Page 4 says: "The
 18 nearby stream was noted to have oil stains in several
 19 places and a sheen of oil. Fish were observed in the
 20 water."
 21 Do you see that?
 22 A. Yes.
 23 Q. Is it your testimony that nearby stream was also
 24 remediated?
 25 A. No, that is not my testimony. I believe that the

04:54 1 Shushufindi 55 site was specifically tasked to TexPet for
2 remediation of oil contaminated soils on the pad and
3 plugging and abandonment of the well. And those were the
4 tasks that they completed at this site. They did not
5 address other aspects of this site.
6 Q. So, looking at this sketch that should be coming
7 up on the screen, and hopefully it's a little easier to
8 read there?
9 A. A little easier.
10 Q. A little easier.
11 At the bottom, just to orient ourselves, coming
12 across the top left, do you see where it says "road"?
13 A. Can you point a cursor at it? Do you have the
14 ability to do that?
15 Q. I'm glad you asked that.
16 A. Yes, I see that.
17 Oh, high-tech.
18 Q. So, the road comes across the top of this site;
19 correct?
20 A. In this diagram, yes.
21 Q. In this diagram. And I understand that there is
22 concern about the orientation of what's north and south.
23 So, let's just call it top and bottom. I recognize that
24 that might not be the north?
25 A. Yes, it's not the north.

04:55 1 Q. So, the road is across the top of the diagram, and
2 then the well is right about in the middle.
3 A. No, I can't read that very carefully, but let's go
4 ahead and proceed on that assumption.
5 Q. The well is right there. I was just there a
6 year-and-a-half ago. And then there is a large hill that
7 has been placed here, and then over here in the remedial
8 investigation, they have identified what looks to be a pit
9 drawn on there, or a former pit.
10 A. Where is it you're looking?
11 Q. On the top right corner of the drawing.
12 A. The rectangle there?
13 Q. Yes, the rectangle?
14 A. Yes, that was a non-RAP pit that is located to the
15 east of the platform.
16 Q. And then at the bottom right-hand corner of this
17 drawing, can you read where it says "oil sheen on water"?
18 A. Yes, I can see that.
19 Q. Now you can see it even easier.
20 A. That's better, yes.
21 Q. And this is where during the remedial
22 investigation they found that the oil contamination had
23 impacted this stream.
24 A. They certainly found oil impacts in this stream,
25 yes.

04:57 1 Q. And do we need to--Fugro-McClelland found
2 similar--had similar findings about this site, but for now
3 in the interest of time I will move past Fugro-McClelland,
4 since they basically duplicate HBT Agra, but you don't have
5 to agree or disagree to that. I'm just going to skip ahead
6 to save us some time.
7 A. I guess, just to be clear for the record, I think
8 you said that they duplicate HBT Agra, right here we're
9 looking at Woodward-Clyde's records; right? The document
10 we're looking at I believe is by Woodward-Clyde.
11 Q. That's correct. We looked at the HBT Agra Report
12 earlier.
13 A. Okay.
14 Q. Too much commentary for me just to say--I'm just
15 going to skip a few questions.
16 If we turn to your Report, your 2015 Report, at
17 Page 37, I think this is what you have wanted to talk
18 about. On Page 37, you say, operating records show that
19 Petroecuador has experienced at least one spill and closed
20 one pit at this site since taking over operation of the
21 site in June 1990.
22 Do you see that?
23 A. Yes.
24 Q. And this statement follows your conclusion that
25 LBG has "not conducted sufficient sampling to determine the

04:59 1 source of the limited sediment impacts or to assert that
2 these limited impacts are the result of contaminant
3 migration from the nearby closed pit."
4 Do you see that?
5 A. Yes, I see that.
6 Q. So, what you're saying here, if I understand this
7 correctly, is that LBG has identified limited impacts, but
8 you believe operating records show that those may be due to
9 Petroecuador?
10 A. To be clear, I'm indicating there had been
11 activities and known spills to have occurred at this site.
12 Whether or not this particular incident is associated with
13 that, I'm not stating that. What I am stating is that the
14 conceptual model presented by the Ecuador Experts is not
15 sustained in this case. That model or concept is that
16 contaminants move from pits outward through the soil to
17 contaminate the surrounding area. Yes, we have some
18 impacts to a stream, but that does not--has not been
19 demonstrated to be associated with that pit. Normally
20 impacts to a stream are associated with flow line breaks or
21 other overtopping events, not due to subsurface transport
22 of oil from a pit as it was posited by the Ecuador Experts
23 in what they call their conceptual site cross-section.
24 Q. And the fact that you are pointing to say that
25 LBG's conceptual site model has not been proven is in these

05:01 1 operating records?
 2 A. No.
 3 Q. Where is the fact that you know that something has
 4 occurred at this site since 1990?
 5 A. Well, okay, I guess those are two different
 6 questions. Your first question was, did I know that their
 7 conceptual site model was wrong because of the operating
 8 records? No, that's not why I know it's wrong.
 9 The conceptual site model is a theoretical
 10 depiction of how chemicals move through earth. That's a
 11 different issue as to where those chemicals originated.
 12 Your second question, I believe, is how do I know there was
 13 a spill that occurred at this site? I know that because we
 14 reviewed hundreds of documents, and the specific document
 15 upon which that opinion depends is provided in Appendix C
 16 of my 2015 Report.
 17 Q. Okay. So, the conceptual site model, let's put
 18 that aside because I was not intending to ask you about
 19 conceptual site models. We will come back to those as
 20 well. We have got a lot to cover.
 21 The question I have is just about the operating
 22 records that you refer to. The purpose of offering that
 23 statement on Page 37 is to say the contamination is there,
 24 but it may not be TexPet's, it may be because of
 25 Petroecuador's activities; is that right?

05:02 1 A. No. In this case, I'm not saying that the oil
 2 found in that stream is associated with activities after
 3 1990. I'm just making the point that the assumption that
 4 these sites are TexPet-only is once again not correct in
 5 this case, but that doesn't relate to the specific
 6 provenance of that oil stain in the swamp to the south of
 7 this facility.
 8 Q. So, I don't see a reference to the operating
 9 records. I would assume that they would have been in
 10 Appendix B where you have a summary of the Shushufindi 55
 11 well site environmental conditions, but I understand from
 12 what you're saying now is that they are in Appendix C;
 13 right?
 14 A. That's correct, yeah.
 15 Q. So, we will skip Appendix B and go right to
 16 Appendix C, and there are actually two appendices labeled
 17 C; correct?
 18 A. I will have to look at the Report to answer that
 19 question.
 20 Q. Here is an Appendix C.1 and Appendix C.2.
 21 A. Then I would agree there are two appendices
 22 labeled C.
 23 Q. And we have now moved on to Binder Number 3.
 24 (Laughter.)
 25 Q. It's an exciting moment.

05:04 1 MS. RENFROE: How many are there?
 2 MR. EWING: I said there may or may not be four.
 3 There are currently four.
 4 MS. RENFROE: Currently?
 5 MR. EWING: I have four.
 6 BY MR. EWING:
 7 Q. Mr. Connor, I'm trying to give you all of the
 8 documentation. We had trouble at the deposition not having
 9 everything ready, so I went beyond to make sure we would
 10 have everything. So, I apologize for the number of
 11 binders.
 12 But if you look at Appendix C.1, which is Tab
 13 Number 30, and we look down to Shushufindi--
 14 A. Thanks, man. It's a gift.
 15 Q. --55, which is on the second page.
 16 A. C.1? Yes, it's on the first page of the table.
 17 Is that what you mean?
 18 Q. Oh, sorry, yes. On the first page of the table.
 19 And you list one spill, one pit closure or other
 20 remediation.
 21 Do you see that?
 22 A. Yes.
 23 Q. And then there is a footnote that says "pit
 24 closure and other remediation includes pits, soils, and
 25 other site features for which analysis of aerial imagery

05:06 1 indicates that Petroecuador has remediated or otherwise
 2 closed that feature."
 3 Is that correct?
 4 A. That's correct.
 5 Q. So, this doesn't tell us the documents that we
 6 need to look at. It just tabulates the results of your
 7 research; right?
 8 A. You need to look at Appendix C.2 to see the list
 9 of documents.
 10 Q. If you could turn to Tab 31, you will see Appendix
 11 C.2.
 12 And before we get to Shushufindi 55, I just want
 13 to look at this first page for Aguarico 6--or, sorry,
 14 Aguarico 2--to understand what this collection of documents
 15 is.
 16 I see quite a few documents here categorized by
 17 aerial photos, information about workovers, and then
 18 documents that were already submitted.
 19 Do you see that?
 20 A. Which page are you looking at? Are you looking at
 21 the first page, or--
 22 Q. The first page.
 23 A. Yes, I see that.
 24 Q. And you include information about workovers like I
 25 said, and reports about work that was done by PEPDA or by

05:07 1 Ecuador or by other agencies of Ecuador. Production data.
 2 It's--this is all the information you have about this site.
 3 A. It's all the information that got recorded on this
 4 table. There is a disk that's also attached with a large
 5 number of documents, but this was intended to be a
 6 inventory of those documents to facilitate searching of
 7 that disk. It may not be a complete inventory of the
 8 documents that were relied upon, but it was the best effort
 9 of the staff to make those accessible.
 10 Q. So, looking at these aerial photographs, we've got
 11 approximately 12 from Aguatico 2, well status reports and
 12 tables, et cetera.
 13 A. Yes, there's quite a few documents on that site.
 14 Q. At the end it says a "video screenshot."
 15 Do you see that?
 16 A. Yes, I do.
 17 Q. The bottom of this table, it says--the second row
 18 up it says "video screenshot."
 19 A. Correct.
 20 Q. Do you know what video that was taken from?
 21 A. No, I don't. But you could find all those
 22 documents. They should be provided on the disk. It was
 23 provided with this.
 24 Q. Okay. So, if we turn to Page 20 of 55, and if you
 25 look in the top left corner closest to the three rings?

05:09 1 A. You mean 20 of 35?
 2 Q. Twenty of 35.
 3 A. Okay.
 4 Q. In your Report, you said: "Operational records
 5 provided support for the conclusion that Petroecuador has
 6 experienced at least one spill and conducted at least one
 7 pit closure since taking over operation of this site in
 8 1990." Correct?
 9 A. Correct.
 10 Q. I don't see any operational records listed.
 11 A. By "operational records," I mean the documents
 12 that are provided in Appendix C, and those include well
 13 status reports and spill records when they are available.
 14 But I used that term in a generic sense.
 15 Q. So, when we looked at Aguatico 2 at the very
 16 beginning, you listed the well status reports, the
 17 pre-assessment findings, et cetera. But when I look at
 18 Shushufindi 55, I don't see any of those documents that you
 19 just referred to.
 20 A. Yes, because those documents are associated with
 21 Aguatico 2.
 22 Q. My question must not be clear.
 23 If you look at the index, "document inventory,"
 24 for site Shushufindi 55, Page 20 of 35 of your Appendix
 25 C.2, you told us in your 2015 Report that we would find

05:11 1 operating records that show that Petroecuador has
 2 experienced at least one spill and conducted at least one
 3 pit closure since taking over operation of this site in
 4 1990. And my question to you is: I don't see those; am I
 5 missing them?
 6 A. No, I believe these are the documents that were
 7 available, and I use "operating records," as I said, in a
 8 general sense. You may refer back to a footnote that you
 9 read earlier that said that remediation activities were
 10 sometimes in reports and sometimes determined from
 11 evaluation of aerial photos. Sometimes spills were
 12 characterized in that same way. I would have to go back
 13 through these documents to clarify that for you.
 14 Q. So, your testimony is that the aerial photographs
 15 that you have included here would indicate where the
 16 spill--that there was a spill?
 17 A. The aerial photos certainly indicate that the
 18 non-RAP pit was closed by Petroecuador, and the importance
 19 to me on that is that the pit count is reduced. I don't
 20 recall the basis for which the staff determined that there
 21 had been a spill at this site. I would have to confer with
 22 them on that.
 23 Q. But sitting here today, you don't see any
 24 operating records that would indicate that there was one
 25 spill and one pit closure?

05:12 1 A. No. There--on that particular site, there
 2 aren't--as you define operating records, no, there are not
 3 those. They are not listed on this table.
 4 Q. And I'm trying to use the term as you defined it
 5 in your Report, not how I'm defining it. I don't see any
 6 record here to support the conclusion that there was at
 7 least one spill and one closed pit post-1990.
 8 A. Yes. I think if I explained it before, in the
 9 text I'm using "operating records" to refer to the types of
 10 documents that are presented in Appendix 6--Appendix C--and
 11 those include a variety of documents. In this particular
 12 case, on that site, we do not have--according to the table,
 13 we don't have actual spill reports, et cetera, or pit
 14 closure reports. But the aerial photos were certainly
 15 sufficient to demonstrate the closure of the pit. I can't
 16 tell you offhand the basis for the spill report, the spill
 17 indication, without reviewing those files.
 18 Q. So, in Appendix C.1, your footnote on pit closures
 19 and other remediation should have been on spills as well?
 20 A. No, I think it's clear as to what it states, that
 21 the pit remediation was clearly based on the aerial photos
 22 and other documentation.
 23 Q. So, Appendix C.1 says that there was one spill at
 24 Shushufindi 55. Is it your testimony that that evidence is
 25 in those aerial photographs?

05:14 1 A. You know, as I said before, Mr. Ewing, I'm not
2 sure what the basis was for the staff concluding that
3 spill. I would have to confer with them to understand
4 that completely.
5 Q. And is that information that you would be able to
6 obtain for us so that we could understand what your
7 conclusion is from your Report? And what the support is
8 for your conclusion?
9 A. The information should be provided on the CD
10 that's with the file. If I was advised by counsel to do
11 more research on that and provide you that, I certainly
12 would do that.
13 But as we noted earlier it's not my opinion that
14 that spill is the source of the sediment impacts in the
15 swamp that we have been discussing. Only that these
16 activities have occurred such that the environmental
17 condition of the site is not what it was at the time of
18 TexPet operations.
19 Q. And is that true for all 13 of LBG's report of
20 sites? That you are not intending causation, you are just
21 mentioning the fact that other activities have happened?
22 A. No, I can't say without reviewing it more
23 carefully, Mr. Ewing, that there is not causative
24 relationships. In some cases we know very clearly what the
25 cause was of the impacts we observed. In other cases we

05:16 1 don't. We could go through each case and I could tell you
2 what my findings were in that regard.
3 Q. But at Shushufindi 55, you're not testifying to
4 what caused the contamination in the stream?
5 A. That's correct. And that's exactly the point I'm
6 making in the text, that there is not information available
7 to support a conclusion or a hypothesis of oil migration
8 from a pit. And in fact, we don't know what the provenance
9 of the oil contamination is. We know that it's been there
10 for a while, but we don't know how it happened.
11 Q. So, you're saying that, despite the fact that HBT
12 Agra in 1992 found that that stream was impacted and that
13 Woodward-Clyde found in 1996 that that stream was impacted,
14 we still can't say what else may have happened to impact
15 that stream?
16 A. I don't think I followed that question.
17 Q. My understanding is that you--your conclusion is
18 that LBG's experts have not proven that the contamination
19 in the stream at Shushufindi 55 is the result of TexPet's
20 operations. Is that your statement? That they have not
21 made that conclusion?
22 A. No, that's not my statement. The statement is
23 simply that the conceptual model of contaminant migration
24 that was put forth in the Ecuador Experts' Reports has not
25 been demonstrated at this site or at any other site. That

05:18 1 is not the mechanism whereby that stream was impacted, or
2 is there data to support that. That's my statement. My
3 statement isn't to the source or timing of that effect,
4 it's only to the mechanism of those conditions.
5 Q. And I think you're again moving on to conceptual
6 site models.
7 Let's move to another document.
8 Could you turn to Tab 32. And this is R-1237, and
9 is GSI's summary of site-specific information for
10 Shushufindi 55. And this was done in 2007, according to
11 the date at the top left.
12 Do you see that?
13 A. Yes.
14 Q. And looking down the middle of the page, do you
15 see where it says that no spills had been reported? Sorry,
16 this is on the next page of the printed document. I
17 apologize. Right in the middle, the left column says
18 "spills," the description says "no spills reported."
19 Do you see that?
20 A. Yes, that's correct.
21 Q. So, as of 2007, GSI had not found any information
22 about spills at this site.
23 A. In the records that we reviewed at that time,
24 which were the HBT Agra Report and the Petroecuador records
25 that were available cited there, there was not any

05:19 1 indication of a Spill Report. Correct.
2 Q. And if you turn to Tab 33, this is a page from
3 Chevron's clickable database again, which is Exhibit R-938.
4 And this is, again, information that Chevron and GSI have
5 put together; is that right?
6 A. The clickable database would have been compiled by
7 staff at GSI. I don't recall what involvement Chevron had
8 in that. There were different parties that provided
9 information that was compiled in that database by my staff.
10 Q. And do you see where it says "workover dates and
11 procedures, no workover data available"?
12 A. Correct.
13 Q. And do you see where it says "Spill Report, no
14 spill data available"?
15 A. Correct.
16 Q. So, again, as of 2007, you had found no evidence
17 of workovers and no Spill Reports.
18 A. That's right.
19 Q. Until 2015, when you say that there had been
20 spills and a pit remediation, and we just have the aerial
21 photographs to determine that?
22 A. Mr. Ewing, the Petroecuador's pit Remediation
23 Program initiated in 2007, after the date of this summary,
24 and that pit has been remediated by Petroecuador. The
25 basis for the spill--as I've said before, I'd have to look

05:22 1 at the records to see what that is based upon--is not the
 2 spill that contributed to the oil in the swamp to the south
 3 of the site.
 4 Q. So, your testimony is that there must have been a
 5 pit that Petroecuador remediated after 2007 but before 2015
 6 that accounts for your information in Appendix C.1?
 7 A. Yes. They remediated that non-RAP pit at this
 8 site. You can see that on the aerial photographs.
 9 We have incomplete documentation on the work that
 10 Petroecuador has conducted, but they have certainly closed
 11 many pits in the area, some of which are documented reports
 12 and some of which are clearly evidenced on aerial
 13 photographs.
 14 There is a tool that I believe we provided you and
 15 to the Members of the Tribunal called the Farallon tool,
 16 and in that you will see a very useful collection of aerial
 17 photographs. As you click through those, you will see pits
 18 disappear as they're remediated by Petroecuador over time.
 19 And I would be happy to demonstrate that tool to you, if
 20 you're--if that's of interest to you, just to do that
 21 exercise.
 22 Q. I'm sure that we will have an opportunity to look
 23 at that tool some more. Let's--we will potentially come
 24 back to these aerial photographs to see what they actually
 25 include.

05:25 1 9:00 if you want to, but don't come after 9:30.
 2 THE WITNESS: I think 9:30 sounds just perfect.
 3 PRESIDENT VEEDER: Okay. And again, please don't
 4 talk about the case--
 5 THE WITNESS: Yes.
 6 PRESIDENT VEEDER: Or your testimony to anyone
 7 until you come back before the Tribunal.
 8 THE WITNESS: Yes, sir.
 9 PRESIDENT VEEDER: Thank you.
 10 SECRETARY DOE: Just before we do go, might I
 11 invite the Claimant to make the corrections to the exhibit
 12 numbers of the documents that were produced during
 13 Mr. Lynch's examination, that were indicated to me just
 14 before the break?
 15 Do I understand correctly that it's C-2514,
 16 C-2515, C-2516 as the numbers appear on the documents that
 17 were handed out should, in fact, read C-2515, C-2516, and
 18 C-2517 respectively?
 19 PRESIDENT VEEDER: Please speak in the mike and go
 20 on the record. What's happened is we cannot have duplicate
 21 exhibit numbers and we've got to sort this out now before
 22 it's too late.
 23 MR. CALABRO: Yes. And that's the concern I'm
 24 here to address.
 25 We errantly put into the record a duplicate

05:23 1 The next set of questions I have is going to take
 2 us a little while, or hopefully not too long, but it's
 3 probably longer than six minutes. Would you rather end a
 4 little early or a little late, Mr. President?
 5 PRESIDENT VEEDER: Well, just tell us first how
 6 things are going. Are you roughly where you want to be or
 7 are you taking more slowly than you imagined?
 8 MR. EWING: I think that the afternoon went a
 9 little more slowly than I expected it to go. I will look
 10 at my outline this evening and see what I can cut out of
 11 it, but it did take longer to get where we needed to go.
 12 PRESIDENT VEEDER: I think we'd better stop here,
 13 hadn't we? We will stop here and then we'll resume
 14 tomorrow.
 15 What we would like to do is to start at 9:00
 16 because we want to address the question of the Terms of
 17 Reference for the Tribunal Experts. If we could start at
 18 9:00, it shouldn't take us more than a half an hour or so.
 19 So, if you could come back for 9:30, we'll resume our
 20 cross-examination then.
 21 THE WITNESS: Oh, I'm sorry. I should be here at
 22 9:30 or 9:00?
 23 PRESIDENT VEEDER: 9:30.
 24 THE WITNESS: 9:30.
 25 PRESIDENT VEEDER: Nothing's to stop you coming at

05:26 1 Number 2514. The two other exhibits that we put in earlier
 2 today, 2515 and 2516, should remain with the numbers that
 3 they were assigned. However, the document that we errantly
 4 assigned 2514 should become 2517. And we've sent an e-mail
 5 to that effect to both the Tribunal and the other Party.
 6 PRESIDENT VEEDER: There is no objection, of
 7 course, from the Respondent?
 8 MR. EWING: Of course not.
 9 PRESIDENT VEEDER: Thank you.
 10 Unless there is housekeeping we can attend to or
 11 we need to attend to now, we will adjourn until 9:00
 12 tomorrow.
 13 Anything from the Claimants?
 14 MS. RENFROE: Nothing further, Mr. President.
 15 PRESIDENT VEEDER: Respondent?
 16 MR. EWING: Nothing. Thank you.
 17 PRESIDENT VEEDER: Until 9:00 tomorrow. Thank
 18 you.
 19 MR. EWING: Have a good night.
 20 (Whereupon, at 5:27 p.m., the Hearing was
 21 adjourned until 9:00 a.m. the following day.)
 22
 23
 24
 25

CERTIFICATE OF REPORTER

I, David A. Kasdan, RDR-CRR, Court Reporter, do hereby certify that the foregoing proceedings were stenographically recorded by me and thereafter reduced to typewritten form by computer-assisted transcription under my direction and supervision; and that the foregoing transcript is a true and accurate record of the proceedings.

I further certify that I am neither counsel for, related to, nor employed by any of the parties to this action in this proceeding, nor financially or otherwise interested in the outcome of this litigation.


DAVID A. KASDAN