

MR MOORE: 6 o'clock.

5 MR TREASURE: It might have been five to 6 or something, yeah, and Lindsay bled it off, yeah.

MR MOORE: All right. And Lindsay bled it off. That was satisfactory, as far as you were concerned?

10 MR TREASURE: Yeah, well, the samples were hard and everything was okay, everything was static and very stationary.

15 MR MOORE: Okay. I would like to show you the cement report prepared by Halliburton, which has a graph on it of the event, the pressure events, shortly after you pressure tested, mainly because I'd like your opinion on what was happening in the well just after that event. So this is a chart produced by Halliburton of the actual pumping.

20 MR TREASURE: Yep.

MR MOORE: And the area that we were interested to know, because we can't be quite sure what's happening - it looks like that's the 120 PSI - - -

25 MR TREASURE: That's correct, yeah.

MR MOORE: - - - that you went down to?

MR TREASURE: Yeah.

30 MR MOORE: You then started pumping in again at this point.

MR TREASURE: Yeah.

35 MR MOORE: The graph goes flatline. What would that indicate that's happening?

MR TREASURE: We've balanced the pressure again of the cement that was behind it - - -

40 MR MOORE: Yep, okay.

MR TREASURE: - - - and we pumped it back up again.

45 MR MOORE: Okay. So where would those fluids have been going then when you were pumping along that - when the pressure was - - -

MR TREASURE: They should have been going out of the shoe.

MR MOORE: Into the formation?

50 MR TREASURE: Into the formation.

MR MOORE: Okay. So I guess we could look at that and that would be formation breakdown pressure, would that be?

5 MR TREASURE: No, it wouldn't be formation breakdown pressure. That should be the cement being pushed back into the system again, back into it and being displaced back up again, because of the weight of the cement in the formation being pushed down, the hydraulic force of it.

10 MR MOORE: So that would have been cement being pushed back up the - yep, okay.

MR TREASURE: Up the annulus.

15 MR MOORE: But the pressure in the annulus, when you were cementing, went up to that pressure, so that would have - - -

MR TREASURE: No, no, no. That was - - -

20 MR MOORE: No, that was the - - -

MR TREASURE: That was the test.

MR MOORE: That was the test pressure?

25

MR TREASURE: Yeah.

MR MOORE: So the final pressure, when you were cementing then - - -

30 MR TREASURE: Was very low.

MR MOORE: Was very low?

MR TREASURE: Yep.

35

MR MOORE: Okay. All right. Well, I think what I need to do, I need to look at that a bit more. I mean, when we did a calculation with a head of sea water, that pressure shown there seemed to be very close to 1.4, which is the fracture of the - - -

40 MR TREASURE: Yeah, but that there, that's not going to be - that's just the weight of your cement.

MR MOORE: Okay.

45 MR TREASURE: See, you've got - - -

MR MOORE: So that's just - - -

MR TREASURE: You've got mud - - -

50

MR MOORE: It's U-tubing?

MR TREASURE: You've got mud with cement - yeah, it's u-tubing. Exactly.

5 MR MOORE: It's U-tubing. Okay. All right.

MS PICKFORD: Is there anything to identify that - - -

MR MOORE: Well it's - - -

10

MS PICKFORD: Is there a date or a document number?

MR MOORE: Well it's the graph which is in, and I'll just check if Halliburton have got a reference.

15

MR TREASURE: Halliburton's got it locked it on a computer, that - - -

MR MOORE: Yeah.

20 MR TREASURE: It just monitors everything that we do there.

MR MOORE: It's Production Casing 7523 Halliburton Report.

MS PICKFORD: Okay.

25

MR MOORE: Post-job Report, well name: Montara H1-ST1; rig: West Atlas.

MS PICKFORD: Yep.

30 MR MOORE: Production casing prepared by Noel Treasure, Lindsay Wishart and Steven Lovelace, 7.03.2009. Prepared by David Doeg, D-o-e-g.

MR TREASURE: A 21 year old - a 21-year cementer.

35 MR MOORE: Okay. A 20-year cementer?

MR TREASURE: 21-year cementer.

MR MOORE: Sorry, can you clarify that? Is he 21 years old or he's - - -

40

MR TREASURE: No, he's been doing it - - -

MR MOORE: He's been doing it for - - -

45 MR TREASURE: He's the same age as us - - -

MR MOORE: - - - 21 years. Okay. He's a cementer of 21 years.

MR TREASURE: And he's probably the best one I've ever worked with.

50

MR MOORE: Okay. Yeah. Excellent

MR WALLIS: Brian, may I ask a quick clarification on - - -

5 MR MOORE: Yeah.

MR WALLIS: - - - that one, or I'll wait to - - -

10 MR MOORE: Yep. Yeah, go ahead. You go ahead while we're on the subject.

MR WALLIS: Actually, if I could get that again - or maybe I've got it. Would that be here? But if I could get that - - -

15 MR MOORE: The graph?

MR WALLIS: That graph again, yeah.

MR MOORE: It's the one with the tag on it.

20 MR WALLIS: Okay. Okay. Again, the same sort of time. Looking at the barrels pumped, the initial 4000 PSI test appears to have taken nine and a half barrels - - -

MR TREASURE: That's correct.

25 MR WALLIS: Then there was the bleed off?

MR TREASURE: Yes.

30 MR WALLIS: And when it was re-pressurised - - -

MR TREASURE: Yes.

35 MR WALLIS: Attended to, re-pressurised or the same volume pumped - at the time that you reached nine and a half barrels, it would appear then it continued up to 16 and a half barrels. Would you say that's - - -

MR TREASURE: That's correct.

40 MR WALLIS: - - - what it shows?

MR TREASURE: Exactly.

45 MR WALLIS: Can you explain why there wouldn't have been a corresponding similar increase in pressure by the time you got to - - -

MR TREASURE: That's why we stopped pumping, because we didn't get the corresponding pressure and we didn't want to displace the cement outside the casing.

50 MR WALLIS: Yeah. And the extra seven barrels that was pumped beyond the - or beyond the original, without a pressure increase - - -

MR TREASURE: The extra seven? No, we bled back. There were 16 bled back, or 16 and a half, 15 and a half or something, bled back. We stopped at half a barrel short, because we weren't getting the pressure increase we would need to.

5

MR WALLIS: Okay.

MR TREASURE: So we didn't pump more than what we would need to pump.

10 MR WALLIS: So the reason you stopped was because you got to 16 and a half barrels - - -

MR TREASURE: Yep.

15 MR WALLIS: - - - without a pressure increase?

MR TREASURE: That's correct.

20 MR WALLIS: So if there wasn't a pressure increase, would that imply that it wasn't being pressurised but, instead, was moving out the end of the shoe?

MR TREASURE: Yeah, it's moving out the end of the shoe, which it's meant to be, because it's going into an open annulus.

25 MR WALLIS: But the lack of pressure would indicate that it was - would that indicate it was moving further when - - -

30 MR TREASURE: No, it's not going to - it - because what happens is, when you get - you've got a height of cement in there, a hydrostatic head, and that's going to be held constant and with that small volume, you're not going to see that much of a pressure ramp, but where we go here, and after we'd pumped that amount and we hadn't got the required pressure increase, we didn't pump any more because we didn't want to, because we didn't want to have the cement go outside the shoe. We didn't want to have a wet shoe, as they call it.

35

MR WALLIS: Okay.

MS PICKWORTH: Can we take a break for a minute?

40 MR MOORE: You certainly can.

MS PICKWORTH: I've drunk too much coffee.

MR TREASURE: You want a pit stop not a break.

45

MR CHAPLIN: Hang on, we've got the - - -

MR MOORE: The time is 10.03, and this record of conversation is suspended for participants to take a break.

50

INTERVIEW SUSPENDED

[10.03 am]

INTERVIEW RESUMED**[10.09 am]**

5 MR MOORE: This is the recommencement of an electronically recorded conversation between Brian Moore and Noel Edward Treasure conducted at the NOPSA offices, level 15, Enex 100, 100 St Georges Terrace, Perth, Western Australia, 6000 on Thursday, 15 October 2009. Okay. So - - -

10 MR CHAPLIN: Have you mentioned the time?

MR MOORE: Oh, the time. No, I didn't. Thank you, Dave. The time is 10.09.

MR TREASURE: That is correct.

15 MR MOORE: Thank you. Okay. Staying on the subject of the cementation, the cement was displaced with what fluid?

MR TREASURE: With treated sea water.

20 MR MOORE: And why was sea water used?

MR TREASURE: Because that's what the program called for.

25 MR MOORE: That's what the program called for. I note that in the drilling program for the 7 March, there's a record that the pore pressure in the well control column - the pore pressure was 1.06. Where would that value have come from, and what does it mean?

30 MR TREASURE: That's the formation pressure.

MR MOORE: Yeah.

MR TREASURE: And that's what's coming from the TVD of the well.

35 MR MOORE: From the TVD of the well?

MR TREASURE: Yep.

40 MR MOORE: Okay. And who would have provided that pore pressure data?

MR TREASURE: The geologist and - - -

45 MR MOORE: The geologist. Okay. So the pore pressure was stated in the program to be 1.06, and the kill rate of the fluid was sea water. Do you know sea water - the density is?

MR TREASURE: 8.34.

50 MR MOORE: 8.34.

MR TREASURE: Pounds per gallon.

MR MOORE: Pounds per gallon?

5 MR TREASURE: Pounds per gallon.

MR MOORE: 8.34 pounds per gallon. Okay.

10 MR TREASURE: Oh, hang on, no. That's fresh water.

MR MOORE: Yeah?

MR TREASURE: What is it? 8.6? I can't remember what it is.

15 MR MOORE: Okay. All right. Well, it's just that we - - -

MR TREASURE: It was 22 PSI above the formation pressure.

20 MR MOORE: It was 22 PSI above the formation pressure. Okay.

MR TREASURE: When we had the water in position.

25 MR MOORE: All right. Okay. In that case then, what I'd like to do is refer you to the PTTEP Well Construction Standards. Are you aware that in the Well Construction Standards there is a value for the margin, safety margin, between kill fluid and formation pressure?

MR TREASURE: Yes, but I can't remember what it is. Yeah.

30 MR MOORE: You can't remember what it is. Okay. I believe it's 143 PSI. So you were saying that you had a 20 PSI margin over the formation pressure?

MR TREASURE: Yeah, it was a 22 - - -

35 MR MOORE: That was your understanding?

MR TREASURE: Yeah, that's my understanding.

40 MR MOORE: That you had a 20 PSI over the pressure?

MR TREASURE: Or 22, yeah.

45 MR MOORE: Okay. And so that wouldn't have been in accordance with the Well Construction Standards.

MR CHAPLIN: Well, while he's looking for - - -

MR MOORE: Sorry, yeah. Sorry - - -

MR CHAPLIN: Would you normally refer to this particular instruction standard, Well Construction Standard? Would you normally refer to this?

5 MR TREASURE: If I feel as though it is, I normally refer to it, but I didn't refer to it this time.

MR CHAPLIN: Okay.

10 MR TREASURE: If I feel as though I want to check up on something, it's there on the second shelf in the office there. I pull it out and have a look at it.

MR TREASURE: Okay.

15 MR MOORE: All right. I'd just like to - just to confirm that. I'll show you page 27 of 41 of the PTTEP Well Construction Standard, and I'll refer you to paragraph - one, two, three, four, five - paragraph 7, and could you just let me know what you understand by that statement? What is your - - -

20 MR TREASURE: Paragraph 7?

MR MOORE: 7, yeah.

MR TREASURE: One, two, three, four, five, six, seven. Yes, that's 143 PSI.

25 MR MOORE: Okay. So the statement itself says that you should have a - well kill fluid should be equivalent to it, plus 143 PSI?

MR TREASURE: Mm.

30 MR MOORE: Okay. I will note there, though, it says, "Completion fluid" - what do they say? "Completion fluid, drilling fluid?"

35 MR TREASURE: "The completion fluid program must address the potential for losses and may specify the loss of the volume" - - -

MR MOORE: No, no, at paragraph 7, sorry.

40 MR TREASURE: "The density of any completion fluid, work over fluid or packer fluid must be designed to balance the formation pressure at the top of the perforations plus a minimum of 1000 KPA, 143 PSI."

MR MOORE: Okay. All right. Would you think that includes the well kill fluid that you left in the well?

45 MR TREASURE: Yeah, that includes - - -

50 MR MOORE: You'd think it would include that? All right. Fine. Thanks. Okay. I've covered everything that I'd like to talk about with regard to the cementing of the 9 5/8" casing. I'd like to move on to the suspension operations that followed those cementing operations shortly afterwards. So, again, which program were you

working to in regard - when - sorry. Which program were you using to decide on how to suspend the well?

5 MR TREASURE: The program that required the pressure - the MLS pressure retaining cap.

MR MOORE: Okay. I refer you to the drilling program of January 2009, and in there the drilling program says that a cement plug - - -

10 MR TREASURE: Yeah, a cement plug was required but we installed a pressure retaining cap instead.

MR MOORE: Okay. All right. And who decided to do that?

15 MR TREASURE: It was in the program.

MR MOORE: Which program?

20 MR TREASURE: I can't remember which program it was in, but it's in the program there.

MR MOORE: Okay. Well, the last program that we have shows that it was - there's no pressure retaining caps - - -

25 MR TREASURE: Yeah, but there was a change of all that.

MR MOORE: There was a change?

30 MR TREASURE: A change - - -

MR MOORE: Okay. There was a change.

MR TREASURE: - - - management, and it - - -

35 MR MOORE: Okay.

MR TREASURE: - - - was put in there.

40 MR MOORE: And the change that you're referring to, I believe - and perhaps you could confirm for me - is this change: this is a Well Construction Change Control form.

MR TREASURE: Yes, that's correct.

45 MR MOORE: Dated 11 March '09, requested by Chris Wilson, number D65005A006. Is this the change order that you were working to?

MR TREASURE: Yes. That's the one, yeah.

50 MR MOORE: Okay.

MR TREASURE: Yes.

5 MR MOORE: All right. Okay. Well, the date on that signed - it was prepared on the 11th, and it was signed on the 12th by the well construction manager, which is five days after you suspended the well on the 7th. So I just wonder how you could be working to this program on the 12th. You could be working on the 7th on a program which wasn't approved until the 12th.

10 MR TREASURE: Well, I know we discussed it and that's the one that came out. I'm not sure.

MR MOORE: So you discussed it beforehand?

15 MR TREASURE: Yeah, we discussed it.

MR MOORE: Yeah.

20 MR TREASURE: And that's the way that we were going to go with it, yeah.

MR MOORE: Okay. All right. That's fine. Sorry, while we're looking at it, could you just briefly describe to me that suspension diagram, and what it contains?

25 MR TREASURE: Yes. It's a suspension diagram. It's got a pressure retaining cap in there, a 9 5/8" one rated at 5000 PSI.

MR MOORE: Yeah.

30 MR TREASURE: And there's a 13 3/8" one in there, and there's a corrosion cap on top of the 20 inch.

MR MOORE: Okay. All right. So is that what you call a sort of a debris cap?

35 MR TREASURE: Yeah.

MR MOORE: Which is not - - -

MR TREASURE: Or a debris cap, yeah.

40 MR MOORE: Yeah, it's not a pressure containment - - -

MR TREASURE: No, it's not.

45 MR MOORE: All right.

MR TREASURE: On the 20 inch.

50 MR MOORE: Okay. So on the day that you did it, on 7 March, how did you suspend the well? Can you remember?

MR TREASURE: Yeah. We installed the 9 5/8" pressure retaining cap.

MR MOORE: Yes. But you didn't install the 13 3/8"?

5 MR TREASURE: No, we didn't install it for that.

MR MOORE: Was there any reason for that?

10 MR TREASURE: Yeah, because the 13 3/8" casing was still in position there.

MR MOORE: Okay.

MR TREASURE: We hadn't rigged it down.

15 MR MOORE: You hadn't taken it off.

MR TREASURE: Hadn't taken it off.

20 MR MOORE: All right. Okay. I have an extract from the Well Construction Standards again on abandonment and long-term suspension, page 37 of 41. Are you familiar with this document?

MR TREASURE: Yes.

25 MR MOORE: Okay. So referring again to the well suspension diagram, the change that was made on the 12th, do you believe that that complies with - would you say that that complies with that standard?

30 MR TREASURE: With the cap in there, yeah. We - - -

MR MOORE: Okay.

MR TREASURE: It's a pressure-retaining cap.

35 MR MOORE: Yep. Okay. All right. The standard defines long-term suspension is when the module leaves the well site. Did that occur with the West Atlas?

MR TREASURE: We moved off, and then we moved back on again.

40 MR MOORE: Yeah, okay.

MR TREASURE: We weren't long term. We were - - -

MR MOORE: Okay.

45

MR TREASURE: It was a temporary abandonment.

MR MOORE: It was a temporary abandonment?

50 MR TREASURE: Well, it wasn't long term.

MR MOORE: It wasn't long term.

MR TREASURE: And is that - - -

5

MR MOORE: Yeah.

MR TREASURE: It wasn't long term.

10 MR MOORE: Okay. No, it's just that the standard says that, "Long-term suspension is when the MODU leaves the well site. Wells must be suspended so that they can be abandoned with rigless intervention to meet the standards below." So the rig actually left - when did the rig - the West Atlas - leave the Montara well-head platform?

15

MR TREASURE: The 26th of the 3rd

MR MOORE: Okay. And it returned in - the 17th, I think - - -

20

MR TREASURE: Yeah.

MR MOORE: August.

MR TREASURE: August.

25

MR MOORE: Okay. All right. We have, "Two permanent tested barriers must be installed in the annulus and well above any hydrocarbon zone or over pressured zone." So the barriers that you installed, do you think any of those meet those criteria?

30

MR TREASURE: Well, we had tested the casing.

MR MOORE: Yeah.

35

MR TREASURE: Which was correct. We waited for the cement samples to go off.

MR MOORE: Yeah.

40

MR TREASURE: We checked to see that the well had no flow or no movement in it, which was correct, and we installed the pressure retaining cap.

MR MOORE: Okay. Did you pressure test the pressure containing cap?

MR TREASURE: No, we didn't pressure test the cap.

45

MR MOORE: Can it be tested?

MR TREASURE: Yes, it can be.

50

MR MOORE: How would you test that pressure cap?

MR TREASURE: You make up a tool, and you pressure test from the top of it, "J"(ph) onto it and pressure test on the top of it.

5 MR MOORE: Okay. So you would have to close the BOPs to - - -

MR TREASURE: No, you wouldn't. You just - you can just pressure up on the pipe to test that.

10 MR MOORE: Oh, you can pressure - - -

MR TREASURE: On the pipe to pump down it.

MR MOORE: Internally?

15

MR TREASURE: Yeah, internally.

MR MOORE: Okay. So you can pressure test it from underneath?

20 MR TREASURE: We can't pressure test it from underneath. You'd pressure test it from the top, and then you - it's got a - it's like a check valve in there.

MR MOORE: Yes?

25 MR TREASURE: And there's a prong on there.

MR MOORE: Right.

MR TREASURE: So you'd go down, and you'd sit down and you'd "J" onto it.

30

MR MOORE: Yep.

MR TREASURE: And you can pump it down the pipe. It's got seals - - -

35 MR MOORE: So where does that pressurise?

MR TREASURE: That pressurises into the casing.

MR MOORE: Okay. So it's testing it from underneath?

40

MR TREASURE: Yeah.

MR MOORE: Okay. That's what I meant, sorry.

45 MR TREASURE: Yeah.

MR MOORE: Yeah, that's what I meant. Okay. Okay, fine. By this definition, that cap was not a tested barrier?

50 MR TREASURE: No, we didn't test them.

MR MOORE: You wouldn't test a barrier. And the casing was tested, definitely, to 4000 PSI?

5 MR TREASURE: Yes.

MR MOORE: But we already have established that you didn't have a test on the formation - on the shoe, shoe track, because it had failed?

10 MR TREASURE: Yeah, that's correct.

MR MOORE: Okay.

15 MR TREASURE: But the cement samples have gone hard.

MR MOORE: Yep. That's right.

MR TREASURE: Yep.

20 MR MOORE: But you had pumped through it? You had pumped through the shoe track after the pressure test?

MR TREASURE: Yeah, we pumped the cement back, yeah.

25 MR MOORE: Yes. Okay.

MR TREASURE: But not after we - after the samples have gone - so we hadn't pumped to it then.

30 MR MOORE: Okay. So I'll ask the question again, then: according to the criteria that I set out, do you think that that well was suspended in accordance with the PTTEP Well Construction Standards?

35 MR TREASURE: I've got to really think about that and - because of the way - it's - it's - the way the Construction Standards is put in there, it says it's for a rigless intervention on the rig's departure, and we didn't do a rigless intervention. We returned back with the rig.

MR MOORE: Okay.

40

MR TREASURE: And we've put a pressure retaining barrier - - -

MR MOORE: Okay.

45 MR TREASURE: - - - in position.

MR MOORE: We've also noted that on some of the wells a cement plug was installed on, I think, three of the wells, and on two of the wells a cement plug wasn't installed. Could you explain to us the decision making behind that?

50

MR TREASURE: There wasn't the pressure retaining caps to - - -

MR MOORE: Okay. So it was only availability of equipment?

5 MR TREASURE: Availability of equipment.

MR MOORE: Okay. All right. What, in your opinion, is the normal sort of industry way of suspending a well like this?

10 MR TREASURE: Well, you've got to cement two positive barriers.

MR MOORE: Two positive barriers?

MR TREASURE: Yes. Two mechanical barriers.

15

MR MOORE: Two mechanical barriers. Okay. So what do you mean by a mechanical barrier?

MR TREASURE: Well, permanent cement.

20

MR MOORE: Yeah?

MR TREASURE: A float system or a bridge pump.

25 MR MOORE: Or a bridge pump. Okay.

MR TREASURE: Or a mechanical barrier at the top of - a positive shut-off.

30 MR MOORE: Okay. Right. So just to recap, you suspended the well in accordance with the instructions that you received from the PTTEP office?

MR TREASURE: Yes.

35 MR MOORE: In accordance with the program and the change to the program which we've mentioned. I understand you didn't install the 13 3/8" corrosion cap at that time because the 13 3/8" riser was still installed on the mudline suspension?

MR TREASURE: That's correct, yeah.

40 MR MOORE: Was there any reason why you didn't remove the riser and install the corrosion cap?

MR TREASURE: No, there - we didn't install - I really can't remember, to tell you the truth.

45

MR MOORE: You can't remember. Okay.

MR TREASURE: I can't remember.

MR MOORE: All right. Okay. Right. We'll move on now to the events slightly later, towards the end of April, around about 8 April. You actually did some operations offline. Could you describe those to us?

5 MR TREASURE: Yes. We installed corrosion caps.

MR MOORE: Yeah.

10 MR TREASURE: We removed 20-inch casing and installed debris caps on the 20-inch casing.

MR MOORE: That's right. Okay. Can you remember if you installed a corrosion cap on the 13 3/8?

15 MR TREASURE: No, I can't remember.

MR MOORE: You can't remember.

20 MR TREASURE: I really can't. I've thought about it many times.

MR MOORE: Yep. Okay. And will you agree that you were supposed to install - -

25 MR TREASURE: Yes, that is correct.

MR MOORE: That's correct. Okay. On 8 March, regarding the decision not to install a corrosion cap at that time, do you know if this was discussed with the office in town?

30 MR TREASURE: Yeah, we discussed that we were going to do it offline.

MR MOORE: Okay. And who did you discuss that with?

35 MR TREASURE: Well, it had been discussed previously at some stage - - -

MR MOORE: With?

MR TREASURE: With Chris and - - -

40 MR MOORE: With Chris?

MR TREASURE: Yeah.

45 MR MOORE: Can you be sure, because you mentioned earlier on that you actually have dealings with Craig Duncan and also Chris?

MR TREASURE: I really can't remember.

50 MR MOORE: That was a Saturday.

MR TREASURE: Yeah.

MR MOORE: So - - -

5 MR TREASURE: I can't remember. It was - yeah. We might have discussed it. We had a morning meeting call.

MR MOORE: Okay.

10 MR TREASURE: It's not a fixed time, but it's before 9 o'clock Perth time.

MR MOORE: Yeah.

15 MR TREASURE: And we bring up all sorts of things. The OIM's there, the logistics, the night supervisor.

MR MOORE: Yeah.

20 MR TREASURE: Sometimes Safety's there. We have different guest speakers you might say - - -

MR MOORE: All right. On weekends is there a roster between Chris and Craig?

25 MR TREASURE: They send us out a note on who's on duty.

MR MOORE: Yep. So there would be a record of who was on duty that weekend?

MR TREASURE: Yes, there would.

30 MR MOORE: Okay.

MR TREASURE: On who's on duty at that - they sometimes do it in weeks; they sometimes do it in days or - - -

35 MR MOORE: Okay.

MR TREASURE: - - - who's on duty.

40 MR MOORE: Where would I find that record?

MR TREASURE: Well, it's just an email that comes out regularly.

MR MOORE: Okay.

45 MR TREASURE: Chris would probably have a copy of that.

MR MOORE: Okay. So it should be in the PTTEP - - -

50 MR TREASURE: Yeah.

MR MOORE: - - - offices?

MR TREASURE: Yeah.

5 MR MOORE: All right. So when the facility actually left on the 15 April, you had carried out suspension of the H1 well offline?

MR TREASURE: Yes, that's correct.

10 MR MOORE: Now you mentioned earlier on that that would have been carried out by the - - -

MR TREASURE: Brian.

15 MR MOORE: Brian Robinson?

MR TREASURE: Brian Robinson, yeah.

MR MOORE: Brian Robinson. Okay. You would have been working on the main
20 well?

MR TREASURE: Yeah.

MR MOORE: On the well at the time, and he would have been working on those
25 operations?

MR TREASURE: Exactly.

MR MOORE: Okay. Would you have been supervising his activities?
30

MR TREASURE: Yeah, I was checking them and making sure things were going right, and observing.

MR MOORE: Okay.
35

MR TREASURE: But he was working from midnight to midday, so Lindsay had six hours with him as well.

MR MOORE: All right. So Lindsay was working from - Lindsay - what - - -
40

MR TREASURE: Lindsay works 6 - 6 at night.

MR MOORE: Right. And Brian - - -

45 MR TREASURE: And myself - Brian works from midnight to midday.

MR MOORE: Okay.

MR TREASURE: And I work from 6 in the morning to 6 at night.
50

MR MOORE: And whatever else is required?

MR TREASURE: Yes, exactly.

5 MR MOORE: Okay. I think that's covered everything I wanted to talk about the well suspension. Sorry, did you have any questions, Craig, or Dave, on - - -

MR CHAPLIN: No, I haven't got any questions at all.

10 MR MOORE: All right. Craig?

MR WALLIS: I guess, once you have achieved a pressure test of 4000 PSI by a particular method, when you repeat that method and you don't appear to achieve the test, would it therefore still count as a test?

15

MR TREASURE: No, it wouldn't.

MR WALLIS: I'm referring to the relationship between the suspension - you know, the tested barriers and what the condition was at the end of the cement job. In theory, it wasn't a tested barrier any more.

20

MR TREASURE: Well, the surface samples were hard, so - you know, I suppose you - - -

25 MR WALLIS: Okay.

MR TREASURE: (inaudible 00:23:30)

MR WALLIS: Okay. That's it.

30

MR MOORE: Okay. Just one other little area, just I need clarification, and it's more about where information comes from on formation pressure. We've quite a difficulty in ascertaining what the formation pressure might have been in the well, the H1 well. Where is that data recorded?

35

MR TREASURE: That comes from the geologist. It comes from the geologist and the MWD will give you pressure data as well.

MR MOORE: It will give pressure data as well?

40

MR TREASURE: Well, the LWD actually will give you pressure data as well.

MR MOORE: And an LWD was run on that well?

45 MR TREASURE: Yes, it was.

MR MOORE: It was.

MR TREASURE: It was.

50

MR MOORE: So that would have pressure data - - -

MR TREASURE: Well, it should have pressure data. I can't remember whether
that one was set up to run pressure data. On some of them we did, and some we
5 didn't, you know, so - - -

MR MOORE: Okay.

MR CHAPLIN: LWD: what does that stand for?
10

MR MOORE: Logging while drilling.

MR CHAPLIN: Thank you.

MR MOORE: But whilst you were drilling the well, you used mud weights well in
15 excess of sea water density?

MR TREASURE: That's correct.

MR MOORE: And what were the reasons why you were using higher mud weights?
20

MR TREASURE: Well, there's a lot of moving sands down there which we had the
hole open to be able to allow us to go into there.

MR MOORE: Okay. So what you're saying is they were for geotechnical reasons?
25

MR TREASURE: Geotechnical.

MR MOORE: Not - - -
30

MR TREASURE: Not for - - -

MR MOORE: Not for pressure retainment?

MR TREASURE: Not for the pressure.
35

MR MOORE: Okay. And can you actually recollect ever being sort of told what
the formation pressure was at the casing shoe, the 244 millimetre casing shoe?

MR TREASURE: I can't remember. I really can't remember.
40

MR MOORE: No.

MR TREASURE: It's - - -
45

MR MOORE: All right. Okay. Well, I've got all my questions done.

MR CHAPLIN: Okay.

MR MOORE: So if you've got anything?
50

MR CHAPLIN: No, I've got nothing.

5 MR MOORE: I'll just finish. Okay, that's the formal questioning finished, so I'll just deal with the formalities at the end. Okay. Is there anything further you wish to say in relation to this matter?

MR TREASURE: No, I've said my piece.

10 MR MOORE: You've said your piece. Okay. Thanks very much. David Chaplin and Craig Wallis, do you have any questions that you wish to ask?

MR CHAPLIN: No, I don't.

15 MR WALLIS: No.

MR MOORE: Okay. Have the answers you've given during this record of conversation been made of your own free will?

20 MR TREASURE: Yes, most certainly.

MR MOORE: Yep. Has any threat been made to you to provide the answers that you have given?

25 MR TREASURE: None at all.

MR MOORE: Has any promise been made to you to provide the answers that you have given?

30 MR TREASURE: No.

MR MOORE: And has any inducement been made to you - - -

35 MR TREASURE: No.

MR MOORE: - - - to provide the answers that you've given? Okay. Do you agree that the time is now - I can't see it - 10.34?

40 MR TREASURE: Yes, absolutely.

MR MOORE: All right. Thank you very much. This conversation is now concluded.

45 **INTERVIEW CONCLUDED**

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