

# Deposition Testimony of:

## **Mark Alberty**

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Page 354:18 to 355:19

00354:18 about it yesterday. But how long were you  
19 the SETA for BP?  
20 A. I don't remember the exact date,  
21 but I think the SETAs were created around  
22 2006.  
23 Q. Uh-huh.  
24 A. And I had that role from the  
25 beginning of the creation.  
00355:01 Q. Okay. SETA is Segment  
02 Engineering Technical Authority?  
03 A. That's correct.  
04 Q. And so from 2000 --  
05 approximately 2006 until you left in 2011,  
06 you were the SETA for PPFPG prediction and  
07 detection; is that right?  
08 A. That's correct.  
09 Q. Okay. Prior to becoming the  
10 SETA, what was your role at BP?  
11 A. I was a pore pressure prediction  
12 and detection -- working R&D project and pore  
13 pressure prediction and detection in Sunbury  
14 originally starting in '97 as full-time pore  
15 pressure prediction, and in 2002 returned to  
16 Houston to do it full time from EPT, the  
17 engineering production tech- -- the  
18 exploration, production, and technology  
19 group.

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00359:17 Q. Sure. It's my understanding  
18 that from Mr. Albertin's testimony that he  
19 essentially maintains a PPFPG spreadsheet  
20 that's based off the prediction that's done  
21 pre-well, and then as the well is drilled, he  
22 updates that spreadsheet based on his  
23 analysis of the different data that comes in.  
24 Did you -- did you ever perform  
25 that role?  
00360:01 A. So -- so the Tiger team had a  
02 PPFPG spreadsheet that Marty had created  
03 and written and -- and I would have done  
04 similar roles, but never used Marty's  
05 spreadsheet, the one that Tiger team had. So  
06 I would have done similar type roles for --  
07 for different assets, not -- not the Gulf of  
08 Mexico.  
09 Q. Okay. And where -- where was  
10 that located, then, if it was not the Gulf of  
11 Mexico?  
12 A. I did work onshore Louisiana. I  
13 did work in overseas, Egypt, Azerbaijan.  
14 Q. Any -- any other work in the

15 United States?

16 A. I did work in the United States  
17 in the Gulf of Mexico before I went overseas  
18 in '97. So I -- in '97 I was in essentially  
19 the same role as the Tiger team, although we  
20 didn't have Tiger teams at that time.

21 Q. Okay. And was that offshore  
22 Gulf of Mexico?

23 A. Yes.

24 Q. Did you do any deepwater then?

25 A. Yes.

00361:01 Q. How many deepwater wells did you  
02 work on in the Gulf of Mexico?

03 A. Doing pore pressure work?

04 Q. Sure.

05 A. I -- I'd have to make a rough  
06 guess. I think we were drilling maybe four  
07 or five a year. I probably would have worked  
08 on all of the exploration wells. So maybe  
09 something on the order of 20, 25, 30 wells.

Page 363:13 to 363:20

00363:13 Well, I believe yesterday you testified that  
14 if a margin is zero, that would raise a red  
15 flag to you.

16 A. If -- if the margin was zero.  
17 If -- if the difference between pore pressure  
18 and frac gradient was defined as margin and  
19 that was zero, it doesn't leave any room to  
20 operate, yes.

Page 365:18 to 365:23

00365:18 Q. Look at this binder, please.  
19 Let's turn to tab 16 in the binder. This is  
20 a Bobby Bodek e-mail from April 13th that we  
21 looked at yesterday. It has Bates No.  
22 BP-HZN-MBI 00126338. It's previously been  
23 marked as an exhibit.

Page 366:01 to 366:16

00366:01 Q. (BY MR. THIBODEAUX) Now, I  
02 believe yesterday Mr. Spiro with the DOJ had  
03 you read through this -- this document, and  
04 there were various ECD and ESD  
05 representations made and various  
06 representations about there being little, if  
07 any, drilling margin. Do you recall that?

08 A. I remember looking at this memo  
09 yesterday.

10 Q. Okay. And what I want to know

11 is assuming that the information in this  
12 e-mail is correct, that those were the  
13 conditions that the Macondo well was under at  
14 the time, if you would have received this  
15 e-mail, what would you have done with it,  
16 with that information?

Page 366:18 to 366:23

00366:18 A. If -- if the e-mail had been  
19 addressed to me and asking me what to do; is  
20 that what you're asking?  
21 Q. (BY MR. THIBODEAUX) Yes.  
22 A. I would have -- you know,  
23 typ- --

Page 366:25 to 368:04

00366:25 A. (Continuing) Typically, if I  
00367:01 would have had a concern about something  
02 happening in an asset that -- that needed  
03 more attention, I would have first contacted  
04 the technical authority in the asset and  
05 asked him if he'd seen it and if he's dealing  
06 with it.  
07 Q. (BY MR. THIBODEAUX) I'm sorry,  
08 the technical forwarding asset?  
09 A. The technical authority.  
10 Q. Okay. And who would that have  
11 been?  
12 A. Pinky Vinson.  
13 Q. And why would you want to have  
14 known if he would have seen it?  
15 A. Because typically this is  
16 supposed to work within that -- that SPU  
17 before it comes out for help at my level  
18 and -- and so there is a technical authority  
19 who works with the engineering authority  
20 within the assets.  
21 Q. Okay. There is a statement in  
22 this e-mail. "It appeared as if we had  
23 minimal, if initiation drilling margin."  
24 Then at the bottom, there is a  
25 statement that says, "We had simply run out  
00368:01 of drilling margin."  
02 Such statements would raise  
03 flags to you because a zero drilling margin  
04 raises a red flag to you, correct?

Page 368:06 to 368:17

00368:06 A. For me if -- if -- if I had  
07 received this e-mail with that statement,

08 I -- I would have wanted to know the facts  
09 and whether or not he has the facts right and  
10 what needs to be handled here, but -- but,  
11 again, if -- if I'd seen that myself, I would  
12 have kicked it back to the technical  
13 authority in the asset.

14 Q. (BY MR. THIBODEAUX) Well, you  
15 understand that MMS regulations at least  
16 require there to be some safe drilling  
17 margin, right?

Page 368:19 to 369:05

00368:19 A. Again, because the MMS  
20 regulations are local regulations and I work  
21 on a global basis, I'm typically not aware of  
22 all the local regulations.

23 Q. (BY MR. THIBODEAUX) I  
24 understand that, but you do understand that  
25 they do require there to be some safe  
00369:01 drilling margin, right?

02 A. I -- I would expect that the MMS  
03 wants to have some safe drilling margin, yes.

04 Q. And a zero drilling margin would  
05 be no safe drilling margin, correct?

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00369:07 A. If -- depending upon how he  
08 determined that, there may or may not be, but  
09 if there was no drilling margin, yes, that  
10 would be a -- a point that -- that there is  
11 no space to operate.

Page 380:16 to 380:24

00380:16 Q. Okay. I believe you testified  
17 yesterday that if you induce fractures in the  
18 open hole, you have, in fact, done an open  
19 hole PIT test; is that right?

20 A. You -- if -- if you have open  
21 fractures, you have reached a point on the  
22 PIT test that you would have reached that  
23 departure from linearity, if you have no  
24 permeability present.

Page 385:23 to 386:05

00385:23 Q. Okay. I'd like to direct your  
24 attention to the -- to the e-mail in the  
25 middle of the page from Randall Sant from  
00386:01 April 5th.

02 A. Do you need -- do you need to

03 identify the number?  
04 Q. Yeah, it's  
05 BP-HZN-2179MDL00007611 --

Page 386:21 to 386:24

00386:21 Q. Okay. At -- at any point in  
22 April of 2010, did you notify the MMS that  
23 the fracture gradient in the Macondo  
24 production interval was 14.3 ppg?

Page 387:01 to 387:06

00387:01 A. I -- I would not have been doing  
02 any of the reporting requirements for the MMS  
03 on Macondo.  
04 Q. (BY MR. THIBODEAUX) Okay. Are  
05 you aware of anyone at BP that did report  
06 that figure?

Page 387:08 to 387:18

00387:08 A. I wouldn't know if anybody did  
09 or did not.  
10 Q. (BY MR. THIBODEAUX) Okay.  
11 Assuming your drilling margin definition as  
12 being the difference between the max pore  
13 pressure in the open hole and the minimum  
14 fracture gradient in the open hole, if the  
15 max pore pressure in the open hole is  
16 14.15 ppg and the minimum fracture gradient  
17 is 14.3 ppg, the drilling margin is .15 ppg;  
18 is that right?

Page 387:20 to 387:24

00387:20 A. The -- the difference between  
21 those two numbers would be .15, yes.  
22 In this e-mail, Randall is -- is  
23 work -- looking at what that sand frac  
24 gradient can be strengthened to.

Page 389:07 to 390:11

00389:07 Q. Okay. Turn to tab 24, please,  
08 dated May 1993, 2010, "Open Hole Mud Loss  
09 Event Summary" with Bates  
10 No. BP-HZN-2179MDL00765364 through 367. Mark  
11 this as Exhibit 4540. If you don't mind,  
12 stick that on, please.  
13 A. Sure.  
14 Q. Thank you. Okay. You're

15 familiar with this report, right?  
 16 A. I have seen this report before.  
 17 Q. Mr. LeBleu --  
 18 A. Uh-huh.  
 19 Q. -- with the BP drilling  
 20 excellence group prepared it?  
 21 A. Yes.  
 22 Q. And sent it to you?  
 23 A. Yes.  
 24 Q. Okay.  
 25 A. Cop- -- copied it to me, yes.  
 00390:01 Q. Okay. This is a summary of the  
 02 open hole mud loss event in the  
 03 8.5-by-9.875-inch hole interval, right?  
 04 A. Yes.  
 05 Q. That's the production interval  
 06 of the Macondo well, correct?  
 07 A. I think so.  
 08 Q. Okay. This is a summary of the  
 09 loss of -- loss events that occurred in April  
 10 2010 from approximately April 3rd through  
 11 April 9th, right?

Page 390:13 to 390:15

00390:13 A. I -- I don't know the dates, but  
 14 it's a summary of the loss events in that  
 15 interval, yes.

Page 393:11 to 394:03

00393:11 Q. (BY MR. THIBODEAUX) And when --  
 12 you were on vacation from April 2nd to the  
 13 13th; is that what you said?  
 14 A. I think that's the correct date.  
 15 I think I was gone ten days, 11 days, left on  
 16 a Friday, returned on a Sunday.  
 17 Q. Did anybody -- during that time  
 18 you were on vacation, anybody from BP call  
 19 you about issues on the Macondo well?  
 20 A. I -- I don't remember if they  
 21 did or didn't.  
 22 Q. Were you checking e-mails during  
 23 that time you were on vacation?  
 24 A. I was periodically checking  
 25 e-mails, and we did look at one I sent back  
 00394:01 on the 5th yesterday. But it would have been  
 02 sporadic because I was in an area where  
 03 telephone reception can be sporadic.

Page 394:18 to 395:01

00394:18 Okay. This is "Group Practice 10-16," right?

19 A. Correct.  
20 Q. I believe you testified  
21 yesterday that you -- you wrote this  
22 document?  
23 A. Drafted it and saw it through  
24 approval processes and -- and took all  
25 feedback from the community and incorporated  
00395:01 it, yes.

Page 395:05 to 395:19

00395:05 Q. (BY MR. THIBODEAUX) If you look  
06 at Page 10 of 16 in Group Practice 10-16 in  
07 the section "Minimum Requirements."  
08 A. Uh-huh. For --  
09 Q. I'm sorry, 7.1.  
10 A. Okay.  
11 Q. Yeah. It says, "The real-time  
12 analysis of pressure for a BP well shall be  
13 prepared by a qualified individual who has  
14 been trained on BP practices, workflows, and  
15 relevant tools and applications to be used at  
16 the wellsite."  
17 The qualified individuals on the  
18 Macondo well were Kate Paine and Stuart Lacy,  
19 correct?

Page 395:21 to 395:22

00395:21 A. I know about Kate. I don't know  
22 about Stuart.

Page 396:04 to 396:20

00396:04 Q. Section B or Point B of that  
05 same section says, All individuals preparing  
06 real-time pressure analysis -- analysis for  
07 BP wells shall have been appropriately  
08 trained on the use of the particular software  
09 used for pressure detection on the well.  
10 A. Yes.  
11 Q. Okay. What was that particular  
12 software?  
13 A. I'm -- I'm not a hundred percent  
14 certain, but I think Kate was using Presgraf.  
15 Q. That's the landmark version of  
16 Presgraf?  
17 A. Yes.  
18 Q. Okay. BP does not train or did  
19 not train any Transocean rig employees on the  
20 landmark version of Presgraf, right?

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00396:22           A.       I would not know, but I -- I  
23   would not have thought that the landmark  
24   employees would have Presgraf -- I mean, the  
25   Transocean employees would have Presgraf.  
00397:01           Q.       (BY MR. THIBODEAUX) And why is  
02   that?  
03           A.       It was primarily used by BP  
04   employees on BP computers.

Page 397:15 to 397:19

00397:15   Mr. Alberty, on the Macondo well you're not  
16   aware of any role that Transocean personnel  
17   played in PPFG prediction or detection,  
18   correct?  
19           A.       Not that I'm aware of.

Page 398:18 to 398:24

00398:18   to tab 4, please. This is an April 2nd  
19   e-mail from Mr. Albertin to you and others at  
20   BP, with Bates No. BP-HZN-2179MDL002612  
21   through -- I believe you looked at the --  
22   this April 2nd e-mail from Mr. Albertin  
23   yesterday, correct?  
24           A.       I -- I think we -- I think so.

Page 399:01 to 399:11

00399:01           Q.       (BY MR. THIBODEAUX) Okay. Do  
02   you see where it says, "I think it is safe to  
03   say that this test is not indicative of the  
04   true fracture strength of the average shale  
05   that we are about to drill"?  
06           A.       Yes.  
07           Q.       Okay. At any point after  
08   receiving this e-mail did you notify the MMS  
09   that BP did not consider the FIT result to be  
10   an accurate indication of the formation  
11   fracture strength?

Page 399:13 to 399:19

00399:13           A.       I would -- I would not have done  
14   any exchange of information directly with  
15   MMS.  
16           Q.       (BY MR. THIBODEAUX) Are you  
17   aware of anyone at BP that made -- that  
18   notified MMS of that?  
19           A.       I -- yeah, I --

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00399:21           A.       (Continuing) I'm not aware of  
22    what communications happened at that time,  
23    and on that day I was totally out of  
24    communication and would not have gotten this  
25    e-mail.  
00400:01           Q.       (BY MR. THIBODEAUX) At any  
02    point in April of 2010 did you direct anyone  
03    at BP to perform another FIT or LOT test of  
04    the production interval?  
05           A.       I did not.

Page 400:12 to 400:15

00400:12           Q.       (BY MR. THIBODEAUX) You're not  
13    aware of any discussions regarding an  
14    additional FIT or LOT test?  
15           A.       Correct.

Page 405:17 to 405:21

00405:17           Q.       (BY MR. BOWMAN) No, actually,  
18    the question is simpler than that. If you're  
19    using the 14.17 weight mud and the frac  
20    gradient is 14.3, that seems like a very  
21    close number to me. Doesn't it to you?

Page 405:23 to 405:24

00405:23           A.       I do not -- I do not know what  
24    would be considered close and not close.

Page 406:24 to 407:01

00406:24           Q.       You've certainly been involved  
25    in discussions with people about that very  
00407:01    point, haven't you?

Page 407:03 to 407:08

00407:03           A.       I haven't --  
04           Q.       (BY MR. BOWMAN) Then just answer  
05    that question, you have been involved in  
06    discussions with people talking about that  
07    very form, tolerances between frac gradients  
08    and pore pressure?

Page 408:12 to 408:15

00408:12           A.       So -- so what do you mean by  
13    "tolerances"? Do you mean differences?

14 Q. (BY MR. BOWMAN) Differences,  
15 sure.

Page 408:17 to 408:23

00408:17 A. Sure, I've been in discussions  
18 about what the difference is between pore  
19 pressure and frac gradient.  
20 Q. (BY MR. BOWMAN) And have you  
21 been in discussions with people also taken  
22 into account about what differences that  
23 makes?

Page 409:10 to 409:12

00409:10 Q. (BY MR. BOWMAN) And you talked  
11 about the importance between the differences  
12 of those two numbers, haven't you?

Page 409:14 to 409:23

00409:14 A. I -- I -- I certainly recognize  
15 the importance.  
16 Q. (BY MR. BOWMAN) Sure, sure.  
17 And then people go to you and have gone to  
18 you for your expertise on these numbers?  
19 A. On -- on the difference between  
20 the two uncertainties, yes.  
21 Q. Yes. And they're doing it for  
22 reasons besides just curiosity on what those  
23 numbers are, don't you think?

Page 409:25 to 410:10

00409:25 A. I would agree that what we do  
00410:01 feeds other processes, in the company.  
02 Q. (BY MR. BOWMAN) Okay. Now,  
03 having said all that, do you still not have  
04 any opinion one way or the other about  
05 whether a mud weight of 14.17 being used in  
06 the Macondo in this last production string is  
07 too heavy in connection with a frac gradient  
08 of 14.3?  
09 A. Yeah, I do not have an opinion  
10 on that.

Page 419:16 to 420:13

00419:16 Q. (BY MR. BOWMAN) Okay. Okay.  
17 So after '88 what do you do?  
18 A. Go to work for Sohio.  
19 Q. Okay. Doing what?

20 A. As a petrophysicist.  
 21 Q. Yeah, I heard that a minute ago.  
 22 And petrophysicist, what are you doing?  
 23 A. Looking at properties of rocks  
 24 and fluids and their interaction, I think is  
 25 the way Gus Archie defined it.  
 00420:01 Q. What are you trying to determine  
 02 there?  
 03 A. All kinds of properties about  
 04 the formation. Porosity, water saturation,  
 05 lithology type permeability, young's modulus,  
 06 Poisson's ratio, pore pressure, effect of  
 07 stress, overburden.  
 08 Q. Just about everything?  
 09 A. Yeah, just about everything.  
 10 Q. And does some of that have to do  
 11 with trying to find where the actual  
 12 production zones will be?  
 13 A. Yes.

Page 420:22 to 421:01

00420:22 Q. I understand. Okay. So how  
 23 long are you doing that for?  
 24 A. Well, I virtually have done that  
 25 petrophysics from '88 until today. I still  
 00421:01 do petrophysics.

Page 423:14 to 423:17

00423:14 Q. And what -- just if you know,  
 15 who from BP actually came up with the  
 16 calculations of pore pressure on the Macondo  
 17 well?

Page 423:19 to 425:06

00423:19 A. I don't really know who  
 20 ultimately did what calculations or produced  
 21 one -- what numbers. But there was somebody  
 22 defined as a single point of accountability,  
 23 and I actually -- as I said yesterday, I  
 24 don't know who that individual was. I do  
 25 know who the single point of accountability  
 00424:01 was for the prediction, because in my review  
 02 I asked that question.  
 03 Q. (BY MR. BOWMAN) That was  
 04 Mr. Albertin?  
 05 A. That was Mr. Albertin.  
 06 Q. So you asked who the predictor  
 07 was, but you did not ask who it was that  
 08 would calculate after the prediction?  
 09 A. My -- my review was conducted a

10 long time before the well spudded.  
 11 Q. Okay. Oh, okay, you're asking  
 12 for -- you're talking about a review that was  
 13 done when, 2008, 2009, something like that?  
 14 A. Something. It was back when the  
 15 well was trying to go through stage gate.  
 16 Q. Okay.  
 17 A. Design stage.  
 18 Q. As opposed to you're reviewing,  
 19 getting ready for your deposition?  
 20 A. Correct.  
 21 Q. Okay. So, anyway, sitting  
 22 there -- here today, you don't know who it  
 23 was from BP that was the point person in  
 24 calculating the pore pressures, during the  
 25 drilling?  
 00425:01 A. The single point of  
 02 accountability for detection, I don't know  
 03 who that was.  
 04 Q. Do you have some names that it  
 05 could be?  
 06 A. Probably Marty Albertin.

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00428:14 Q. Okay. Now, then, let me ask you  
 15 something that's a little bit -- if you have  
 16 higher pore pressure, pore pressure, 14.15  
 17 and another pore pressure 10, is one or more  
 18 likely to possibly cause a flow than the  
 19 other?

Page 428:21 to 429:08

00428:21 A. That would depend upon the  
 22 properties of the formations.  
 23 Q. (BY MR. BOWMAN) Right.  
 24 A. Permeability.  
 25 Q. And --  
 00429:01 A. Position of the well.  
 02 Q. And I'm sure it would depend on  
 03 how it's being controlled but let's assume  
 04 that you have the same properties or same  
 05 type sands. And in that situation would it  
 06 be more likely for a heavier -- higher pore  
 07 pressure to flow before a lower pore  
 08 pressure?

Page 429:10 to 429:12

00429:10 A. That -- I think that might  
 11 depend yet upon a few of the parameters  
 12 and --

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00429:18 Q. So everything else being equal  
19 would a higher pore pressure be more likely  
20 to flow than a lower pore pressure?

Page 429:22 to 430:05

00429:22 A. I think that the -- that if --  
23 if the -- if both are underbalanced, both --  
24 Q. (BY MR. BOWMAN) Yes, sir.  
25 A. Both will flow. I don't think  
00430:01 there is going to be one flow and the other  
02 does not, if they're equal, but it would be a  
03 difference in the rate of flow.  
04 Q. So the higher pore pressure  
05 would flow higher or what?

Page 430:07 to 430:17

00430:07 A. The laws of the Darcy equation  
08 would say that if the Delta P, the difference  
09 in pressure, is greater, the flow rate's  
10 greater.  
11 Q. (BY MR. BOWMAN) Okay. Okay. I  
12 understand. Now, I think you just answered  
13 another question I was going to have. If you  
14 have various pay zones, two, three, four, if  
15 one zone starts flowing before the other  
16 zones, will that effectively cause somehow  
17 the other zones to flow, too?

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00430:19 Q. (BY MR. BOWMAN) Or could it  
20 possibly?

Page 430:22 to 431:20

00430:22 A. A lot of variables that are in  
23 there.  
24 Q. (BY MR. BOWMAN) Right?  
25 A. I'd have to know the variables.  
00431:01 You'd have to know the pressure in the  
02 wellbore relative to the pressure in the  
03 formation to figure out and --  
04 Q. Right.  
05 A. If -- if the zone that's flowing  
06 is altering the pressure in the wellbore,  
07 then that dynamic has to be brought into the  
08 problem, but you can certainly create cases  
09 where one zone may be uncovered and, you

10 know, not have pressure greater than the  
11 formation pressure still start flowing and  
12 alter the wellbore pressure so another zone  
13 starts flowing. That is a possibility.  
14 Q. Thank you. Because that's where  
15 I was wondering about. If you have a zone --  
16 you know, like, three or four zones, it seems  
17 like if one of them starts flowing, that  
18 would change the pressures in the rest of the  
19 formation possibly and could affect the other  
20 zones, alright were I'm just beyond that?

Page 431:22 to 432:02

00431:22 A. Not really -- not really change  
23 the pressure in the formations, but --  
24 Q. (BY MR. BOWMAN) What, does it  
25 change in the wellbore?  
00432:01 A. In the well -- might change the  
02 pressure in the wellbore.

Page 432:04 to 432:05

00432:04 A. (Continuing) Assuming they're  
05 all in the same well.

Page 433:01 to 433:09

00433:01 Q. The -- actually, do the people  
02 doing the Bly report consult with you?  
03 A. No.  
04 Q. Not at all?  
05 A. No.  
06 Q. And you were available to be  
07 consulted with. You weren't on some lengthy  
08 vacation that summer or anything, were you?  
09 A. No, I was available.

Page 433:18 to 435:07

00433:18 Q. And have you talked to any --  
19 well, have you talked to anyone about -- that  
20 was actually involved in producing the Bly  
21 report, Mr. Bly or Mr. Corser or anybody like  
22 that?  
23 A. Kent Corser, Warren Winters,  
24 some of the others are personal friends. I  
25 do see them.  
00434:01 Q. Have you had any discussions  
02 with them about anything contained in the Bly  
03 report?  
04 A. I had discussions with Warren  
05 about the Bly report after it was published,

06 just to understand comments made in it.  
 07 Q. Any discussions with Mr. Corser?  
 08 A. Not about the Bly report.  
 09 Q. Okay. Anything about the  
 10 Macondo well with Mr. Corser?  
 11 A. I don't think so.  
 12 Q. Okay. Do you remember what  
 13 topics you talked about with Mr. Winter?  
 14 A. Not really.  
 15 Q. Did you talk about the  
 16 imbalancing of the well after the negative  
 17 test?  
 18 A. He -- he talked about that -- I  
 19 think he showed me that PowerPoint that -- in  
 20 that Bly report and explained what it was  
 21 trying to show.  
 22 Q. Did you understand it?  
 23 A. Not really.  
 24 Q. Not really. Did you understand  
 25 it enough to know that -- well, you didn't --  
 00435:01 do you even know what a negative test is?  
 02 A. I -- I've got a concept of what  
 03 the negative test is, yes.  
 04 Q. Do you have a concept that if a  
 05 negative test is not successful, that it --  
 06 if it's not successful, what do you think it  
 07 indicates?

Page 435:09 to 435:20

00435:09 A. At some place there was a leak  
 10 in the system.  
 11 Q. (BY MR. BOWMAN) Right. And if  
 12 there's a leak in the system, it's not wise  
 13 to under balance a well; do you understand  
 14 that?  
 15 A. Now we're -- you're getting to  
 16 where I don't really have --  
 17 Q. I'm getting ready to stop. But  
 18 don't you have that understanding that if you  
 19 have a leak in the system, it's not wise to  
 20 under balance a well?

Page 435:22 to 436:11

00435:22 A. I -- I would have thought, but I  
 23 don't know procedures and there may be other  
 24 reasons to that, so I don't know. I'll back  
 25 up.  
 00436:01 I think that if you have an  
 02 underbalanced -- a negative result of the  
 03 negative test, there is probably a need to do  
 04 further diagnostics to try to figure out,  
 05 which may mean you probably need to do other



06 remedial fluids and something.  
07 Q. (BY MR. BOWMAN) You need to do  
08 something?  
09 A. Yes.  
10 Q. As opposed to nothing?  
11 A. Yes.

Page 437:08 to 437:09

00437:08 Tab 30 has been previously marked as  
09 Exhibit 3741; do you see that?

Page 437:11 to 442:02

00437:11 Q. (BY MR. BOWMAN) Have you seen  
12 this document before?  
13 A. I think we looked at it or parts  
14 of it yesterday.  
15 Q. Yeah. If we -- actually I have  
16 one that has part color here.  
17 A. That's all right, I'll survive.  
18 Q. But let's go to the back page.  
19 And --  
20 A. To the what? Oh.  
21 Q. The one with the little -- yes,  
22 yes, sir. And we have -- well, when it says  
23 at the far left top, it says MD, do you  
24 understand what that means?  
25 A. Measured depth.  
00438:01 Q. Okay. And what's the next  
02 column, base measured depth?  
03 A. So they're giving the picked top  
04 in the first column of the sand and the  
05 picked in the bottom of the sand in the  
06 second column.  
07 Q. And what do the third and  
08 fourths do?  
09 A. So the third and fourth of the  
10 picked top, instead of being a measured  
11 depth, they're in true vertical depth subsea.  
12 And the fourth is the base of the sand and  
13 true vertical depth subsea.  
14 Q. Okay. And then it's something  
15 that says interpreted fluid top. Do you see  
16 that?  
17 A. Yes.  
18 Q. Now, let's see, the date of this  
19 is -- let's go back to the first page, if you  
20 would. I'm going to come back to that. It  
21 looks like it's from Paul Johnson. Do you  
22 see that?  
23 A. Right, so that's the date at  
24 which he sent it. I don't know that it tells  
25 us the date it was generated but yes.

00439:01 Q. Yes, kind of hard to say,  
02 because he says, "What I've included here is  
03 the predrill on Macondo, which is spreadsheet  
04 dated" something. What does that say?  
05 A. That's September 18th, 2009.  
06 Q. Hmm, okay. So, now, if you go  
07 back -- in fact, let me just show you my  
08 color copy.  
09 A. Okay.  
10 Q. Because when we look down there  
11 for the interpreted fluid types, you see  
12 that?  
13 A. Uh-huh.  
14 Q. There are -- how many colors are  
15 there?  
16 A. They've got three.  
17 Q. Three colors, okay. And where  
18 it says Brian, what color is that?  
19 A. Blue.  
20 Q. Blue. Where it says gas, what  
21 color is that?  
22 A. Red.  
23 Q. Red, okay. And what's the third  
24 color?  
25 A. Green, I think.  
00440:01 Q. And where is green?  
02 A. For oil.  
03 Q. For oil, okay. And so if we  
04 look at this particular sheet, there would be  
05 three colored green, right?  
06 A. Correct.  
07 Q. That's the bottom three?  
08 A. Correct.  
09 Q. Starting at what height?  
10 A. The bottom --  
11 Q. Yes.  
12 A. -- in measured depth or --  
13 Q. Yes, sir.  
14 A. The bottom of the deepest oil  
15 zone listed here is 18239.  
16 Q. 18239, okay, that's the bottom  
17 one?  
18 A. Correct.  
19 Q. And the -- and the top -- what's  
20 the top of the oil?  
21 A. Here it's listed as 18067.  
22 Q. 18067, okay. Then directly  
23 above that you have, what, gas?  
24 A. Correct.  
25 Q. And that one's -- that one's  
00441:01 listed in red, huh?  
02 A. Correct.  
03 Q. And what's the depth on that?  
04 A. 17806 for the deepest.  
05 Q. Okay. Two, what's --

06           A.       That's going to be intermixed  
 07 brines and gases. So you just want that  
 08 single zone before brine.  
 09           Q.       Okay. Yeah, there is the gas  
 10 and then right above it there is something  
 11 that says brine, right?  
 12           A.       Correct.  
 13           Q.       And that's at what level?  
 14           A.       The bottom of that is 17708.  
 15           Q.       Yeah. To what? To 17,  
 16 basically 600, 599?  
 17           A.       699.  
 18           Q.       Oh, 699, sorry. And that's  
 19 brine. Now, what is brine?  
 20           A.       That should be salt water, not  
 21 free gas or free oil.  
 22           Q.       And then above that there is  
 23 gas, and that's in red, too, huh?  
 24           A.       Yes.  
 25           Q.       17468 to?  
 00442:01       A.       Upper -- both the two gas  
 02 together is 17056.

Page 444:01 to 444:04

00444:01       Q.       (BY MR. BOWMAN) How do you  
 02 actually make a determination -- or how does  
 03 somebody make a determination as to call  
 04 these zones oil versus gas?

Page 444:06 to 444:15

00444:06       A.       Yeah, I don't know the criteria  
 07 that was used.  
 08           Q.       (BY MR. BOWMAN) Okay. Well, in  
 09 your logging days how -- how did you do it,  
 10 or did you?  
 11           A.       Well, I normally record with my  
 12 gas to oil ratios for products.  
 13           Q.       Okay. And what someone's trying  
 14 to produce is, what, oil and gas or -- you're  
 15 not trying to produce brine, right?

Page 444:17 to 445:08

00444:17       A.       There can be a need to produce  
 18 brine, but -- but typically there's not much  
 19 value in producing brine -- brine.  
 20           Q.       (BY MR. BOWMAN) Value is in the  
 21 oil or the gas or both?  
 22           A.       Typically.  
 23           Q.       Now, let me ask you this one:  
 24 There is -- there is -- right down here at

25 the bottom again it looks like the -- there  
 00445:01 is a gas zone that starts at, what is it,  
 02 16956? You see you have a gas zone, you got  
 03 a gas, you got a brine, and you got a gas.  
 04 A. Yes.  
 05 Q. In a formation is it that  
 06 clearly distinguished that you can know for  
 07 sure that that brine has does not have gas in  
 08 it?

Page 445:10 to 445:10

00445:10 A. Most brines do have gas in them.

Page 445:17 to 446:11

00445:17 Q. (BY MR. BOWMAN) Okay. And  
 18 figuring out whether you have oil or gas or  
 19 brine, is that done by looking at logs?  
 20 A. There -- there are different  
 21 ways to do that, and I don't know what method  
 22 was used here.  
 23 Q. Okay. If you look at logs, can  
 24 you make a determination as to whether you  
 25 have a pay zone or not?  
 00446:01 A. You -- you can make a rough --  
 02 you can -- you can use logs -- we do use logs  
 03 to identify where we think pay is, and we  
 04 do -- can use types of logs to estimate what  
 05 type of hydrocarbons are present.  
 06 Q. Okay.  
 07 A. Although one of these sands is  
 08 very thin. 2 feet is very difficult to do  
 09 that with logs.  
 10 Q. I may -- we ought to mark these  
 11 so I don't get too confused.

Page 447:10 to 448:14

00447:10 Q. (BY MR. BOWMAN) First of all, I  
 11 think I marked mine wrong because I have two  
 12 marked as 4542. The one that is the highest,  
 13 such as the one that has, you know, 17460,  
 14 what is that marked?  
 15 A. This -- this one right here?  
 16 Q. Yes, sir.  
 17 A. That is 4542.  
 18 Q. And what's the other one marked,  
 19 43?  
 20 A. 43.  
 21 Q. Okay. Now, then have you seen  
 22 these logs before?  
 23 A. I have seen logs in the well

24 that included these recordings, but I haven't  
 25 seen these particular plots.

00448:01 Q. Okay. So you have seen wire --  
 02 well, you have seen open hole logs of the  
 03 Macondo well, may have actually seen this,  
 04 but haven't seen these particular blow ups so  
 05 to speak, right?

06 A. Right, I use logs from the wells  
 07 in -- in my work on preparing relief wells.

08 Q. In preparing what?

09 A. The relief wells, my work on the  
 10 relief wells.

11 Q. Relief well, okay. And if you  
 12 look at -- first of all, if you look at 4543,  
 13 do you see an area that would indicate a pay  
 14 zone?

Page 448:16 to 449:11

00448:16 A. I see an area that -- that is  
 17 potentially a pay zone, but that would depend  
 18 upon the water resistivity that was going to  
 19 be used in interpreting whether there was  
 20 pay. You could -- you could produce that log  
 21 response with -- with freshwater, but I --  
 22 you know, I would -- I would have thought  
 23 that looked like a pay.

24 Q. (BY MR. BOWMAN) Okay. And  
 25 where is that? Do you want to circle that?

00449:01 A. Circle it?

02 Q. Just, do you have a pen?

03 A. Yeah.

04 Q. Okay.

05 A. So it's right in here.

06 Q. Right in there, okay. What  
 07 about on the right side where you have these  
 08 intersects?

09 A. The proxy logs.

10 Q. Yes, sir, what does that  
 11 indicate to you?

Page 449:13 to 449:20

00449:13 A. That's going to depend upon what  
 14 kind of scales are being used here, and I  
 15 can't tell from this what -- what matrix it's  
 16 been computed on. So some people want to  
 17 look at that crossover as gas, but that would  
 18 depend upon whether or not the log recordings  
 19 on the appropriate matrix. You can misstate  
 20 that.

Page 449:24 to 450:08

00449:24 THE WITNESS: He's at 17805.06 on --  
25 and the depth scale is not measured, so I  
00450:01 don't know if it's measured depth or true  
02 vertical depth or true vertical depth subsea.  
03 MR. THIBODEAUX: Thanks.  
04 Q. (BY MR. BOWMAN) And then if you  
05 look on 4542, you'll see a crossover,  
06 correct?  
07 A. Right, but that -- again, that  
08 crossover --

Page 450:10 to 450:15

00450:10 A. (Continuing) -- is not  
11 necessarily an indication of -- of what  
12 hydrocarbon type is without getting the  
13 appropriate matrix put on them.  
14 Q. (BY MR. BOWMAN) So it could be  
15 hydrocarbon as gas or oil?

Page 450:17 to 451:19

00450:17 A. It could be hydrocarbon as gas  
18 or oil, or it could be water, depending upon  
19 the formation fluid resistivity.  
20 Q. (BY MR. BOWMAN) Well, while  
21 you're looking at that, why don't you -- do  
22 you still have tab 30, which was 3741? Do  
23 you have that little chart? Yeah. And why  
24 don't you look at that same depth on the  
25 chart, see what the chart shows.  
00451:01 A. I don't know if I can do the  
02 same depth, as this depth scale is not  
03 labeled.  
04 Q. Well, when there is crossover on  
05 4542 you can see it's somewhere a little bit  
06 below 17470, don't you? See the 17470 right  
07 here in the middle?  
08 A. I can see 17 -- so this 17468 or  
09 something.  
10 Q. Something like that. It --  
11 let's go to Exhibits 3741 and find that same  
12 depth, and what does it indicate?  
13 A. Well, if this is a measured  
14 depth, that would indicate that's the one  
15 that they've labeled as gas.  
16 Q. As gas, okay. And do you know  
17 if the BP team told anyone from Halliburton,  
18 Transocean, or anyone that this depth of  
19 17468 indicates gas?

Page 451:21 to 451:24

00451:21           A.       I do not know what has been  
22       communicated between the two, nor do I know  
23       if this is the ultimate interpretation of  
24       what was in that zone.

Page 455:16 to 456:05

00455:16           Q.       (BY MR. BOWMAN) Okay.  
17       Mr. Alberty, my assistants have pointed out I  
18       need to clarify something. So what we had  
19       been talking about earlier as 3741, that's --  
20       that was a e-mail from Mr. Johnson, dated  
21       April 21st, along with an attachment. I have  
22       re-marked as Exhibit 4544.  
23           A.       Okay.  
24           Q.       And is -- can you just say that  
25       is what we were looking at?  
00456:01           A.       Yes, that is what we were  
02       looking at.  
03           Q.       Okay. Now, I'm going to hand  
04       you what has previously been marked as  
05       Exhibit 3336. Okay?

Page 456:08 to 457:05

00456:08           Q.       (BY MR. BOWMAN) Now, you can  
09       see this is a BP document. You can tell that  
10       from the bottom where it says "BP Horizon."  
11       Do you see all that? The line -- see the  
12       Bates?  
13           A.       Yes.  
14           Q.       Okay. Have you ever seen this  
15       document before?  
16           A.       I have not.  
17           Q.       Have not. Okay. Why don't we  
18       go over to Page 9, and do you see a table  
19       called "Formation Depths"?  
20           A.       Yes.  
21           Q.       Okay. Now, starts out the  
22       13.01 ppg sand was the shallowest hydrocarbon  
23       sand provided to the drilling engineering  
24       team prior to the cement job. Do you see  
25       that?  
00457:01           A.       I see that.  
02           Q.       Then it says the 14.15 ppg sand  
03       at 17451 was identified post well operations.  
04       Do you see that?  
05           A.       I see that right there.

Page 459:20 to 460:15

00459:20           Q.       Well, let's look at the criteria  
21       being used by the BP investigation team as

22 shown on this particular Exhibit 336. They  
 23 go on down and they have a chart and you have  
 24 an M57B sand. Do you see that?  
 25 A. Yes.  
 00460:01 Q. That's the very first one they  
 02 list, isn't it?  
 03 A. Yes.  
 04 Q. And it's the top -- the top is  
 05 17467; do you see that?  
 06 A. The measured depth, yes.  
 07 Q. Measured depth.  
 08 A. By wireline log.  
 09 Q. Yeah, yeah. And doesn't that  
 10 sound conveniently very close to the major  
 11 depth on Exhibit -- the one we just marked --  
 12 4544, where it shows gas at approximately  
 13 that same depth?  
 14 A. Yes.  
 15 Q. Yeah.

Page 460:17 to 461:12

00460:17 Q. (BY MR. BOWMAN) Okay. So then  
 18 it goes on to say, "identified as hydrocarbon  
 19 June 2010, not a measured pressure."  
 20 Now, June 2010 is certainly  
 21 after the blowout; is it not?  
 22 A. Yes.  
 23 Q. Okay. There is something at the  
 24 bottom, I'm not sure where the note goes, but  
 25 at the bottom it says, Note, all data comes  
 00461:01 from BP petrophysical review done on  
 02 May 25th, 2010.  
 03 Do you see that?  
 04 A. I see that.  
 05 Q. Okay. Have you talked to anyone  
 06 about any BP petrophysical review that was  
 07 done after the Macondo well?  
 08 A. No.  
 09 Q. No. Have you talked to anyone,  
 10 or has anyone mentioned to you the fact that  
 11 after the event, BP discovered that they had  
 12 missed a hydrocarbon zone?

Page 461:14 to 461:25

00461:14 A. No.  
 15 Q. (BY MR. BOWMAN) No.  
 16 I just have one copy. Let's  
 17 mark this. I just have one copy of this  
 18 document that's been marked 4545, but it's a  
 19 page out of the Bly Report. And that  
 20 particular page, what -- what page number is  
 21 it? One at the bottom.



22 A. 54.  
23 Q. 54. And 54 on the far-right  
24 side seeks to portray the various pay zones;  
25 does it not?

Page 462:02 to 462:10

00462:02 A. It -- it's got sands identified.  
03 It's got one of them labeled as "brine." It  
04 doesn't have a label what the -- what --  
05 where hydrocarbons are, but it does have a  
06 label of "Primary Reservoir Sands."  
07 Q. (BY MR. BOWMAN) Okay. And do  
08 you see on that page anywhere the reference  
09 to the M57B sand at approximately  
10 17,467 feet?

Page 462:12 to 463:02

00462:12 A. I do not see a reference to that  
13 on that page.  
14 Q. (BY MR. BOWMAN) No. And the  
15 Bly Report was done, what, sometime in  
16 September of 2010?  
17 A. I -- I don't know the time.  
18 Q. Do you know if it was done after  
19 the May 25th, 2010 petrophysical review done  
20 by BP? Just don't know?  
21 A. That's just an issue I don't  
22 know the timing of. I'm sorry.  
23 Q. If, in fact, the Bly Report came  
24 out in June -- I'm sorry, in September of  
25 2010, and BP knew about this different zone,  
00463:01 do you have any explanation as to why it was  
02 not included in the Bly Report?

Page 463:04 to 463:06

00463:04 A. No, I -- I wouldn't know  
05 anything about this particular topic. I  
06 wouldn't have been involved in it.

Page 485:11 to 485:21

00485:11 Q. Okay. Did you ever deal with or  
12 know Jesse Gagliano?  
13 A. I think he was involved in the  
14 relief well team, wasn't he?  
15 Q. I think he may have been for a  
16 while.  
17 A. Yeah, I think he was.  
18 Q. Yeah. Which is another point.  
19 Halliburton was doing the cementing in the

20 relief wells; were they not?  
 21 A. I -- I --

Page 485:23 to 486:04

00485:23 A. I think that's correct.  
 24 Q. (BY MR. BOWMAN) Yeah.  
 25 A. But I'm not a hundred percent  
 00486:01 certain.  
 02 Q. As far as you know, did you hear  
 03 any complaints about the cementing in the  
 04 relief wells?

Page 486:06 to 486:15

00486:06 A. I -- I did not hear any  
 07 complaints.  
 08 Q. (BY MR. BOWMAN) Okay, that's  
 09 fine.  
 10 Have you ever met Mr. Gagliano  
 11 personally?  
 12 A. Yes.  
 13 Q. Okay. How did you find him?  
 14 Decent enough guy?  
 15 A. Yeah.

Page 486:17 to 486:19

00486:17 Q. (BY MR. BOWMAN) Seemed to know  
 18 what he was doing?  
 19 A. Seemed to.

Page 490:16 to 491:01

00490:16 A. During the well, Hafle sought my  
 17 advice on lost circulation. I -- he did  
 18 not -- I don't recall him seeking my advice  
 19 on kicks, and so we would have talked and  
 20 exchanged e-mails about decision trees and  
 21 treating lost circulation events.  
 22 Q. About decision trees?  
 23 A. Lost circulation decision trees,  
 24 you know, the -- the -- the path you follow  
 25 to treat those. I think we had those in here  
 00491:01 yesterday, didn't we?

Page 492:10 to 493:04

00492:10 Q. Okay. And have you been  
 11 involved with wells that have had this much  
 12 in the way of lost circulation?  
 13 A. Yes.

14 Q. Where were those?  
 15 A. One in Brazil, and -- and I --  
 16 and I get called for ones in -- in the Gulf.  
 17 I mean, anybody that -- in recent years that  
 18 would be having lost circulation might  
 19 consult me within BP. I'm available to help  
 20 them.  
 21 Q. Okay. And how about the  
 22 combination of lost circulation in kicks?  
 23 A. Frequently we have lost  
 24 circulation that can lead to a kick.  
 25 Q. Kick.  
 00493:01 A. You have a kick lead to lost  
 02 circulation. So the two -- I always like to  
 03 treat those as if one happens, you are at  
 04 risk of the other.

Page 495:21 to 496:01

00495:21 Q. Let's go back to -- somewhere  
 22 out in front of you, you've been asked about  
 23 this for a couple days. Why not me? It's --  
 24 it's Exhibit 4530. If it's not in front of  
 25 you, I can find another one and give it to  
 00496:01 you.

Page 496:14 to 496:23

00496:14 Q. (BY MR. BOWMAN) Okay. This is  
 15 the same thing from Mr. Bodek. And Mr. Bodek  
 16 is pretty high up in the Tiger team? How  
 17 would you call that?  
 18 A. I -- I think Bobby's relatively  
 19 new to the Tiger team.  
 20 Q. Oh, he was relatively new. I  
 21 did not know that.  
 22 A. When I say "relatively," within  
 23 the past year or two.

Page 498:19 to 499:23

00498:19 Q. (BY MR. BOWMAN) Okay. The  
 20 next-to-last sentence, "Having a  
 21 14.15 ppg" -- "ppg" means what there?  
 22 A. I'm -- I'm trying to catch you.  
 23 Q. Very last -- very next-to-last  
 24 sentence at the bottom of the page. If we  
 25 have the same form, maybe we don't.  
 00499:01 A. It's not.  
 02 Q. Okay. It says, "Having a 14" --  
 03 A. Oh, I see it. It's on the next  
 04 page for me.  
 05 Q. "Having a 14.15 ppg" -- and

06 what's "ppg" mean?  
 07 A. Pounds per gallon.  
 08 Q. Yeah.  
 09 -- "exposed sand," and what's  
 10 that 15. -- 14.15 talking about?  
 11 A. That's the same number we've  
 12 seen for that --  
 13 Q. Pore pressure?  
 14 A. -- geo pressure above the --  
 15 Geotap pore pressure.  
 16 Q. Right.  
 17 -- "exposed sand, and taking  
 18 losses in a 12.6 ppg reservoir in the same  
 19 hole-section has forced our hand."  
 20 Does that make any sense to you,  
 21 what he's saying there?  
 22 A. No, I -- I don't know his point  
 23 he's trying to get to.

Page 499:25 to 500:04

00499:25 Q. (BY MR. BOWMAN) "We had simply  
 00500:01 run out of drilling margin. At this point it  
 02 became a well integrity and safety issue."  
 03 Now, then, can drilling margin  
 04 become a well integrity and safety issue?

Page 500:06 to 500:11

00500:06 A. Yeah, that -- that -- again,  
 07 drilling mar- -- I mean, drilling margin is  
 08 about safety.  
 09 Q. (BY MR. BOWMAN) Right. And can  
 10 it get so small that it's no longer safe?  
 11 A. Presumably so, yes.

Page 519:20 to 520:08

00519:20 Q. Good afternoon, Mr. Alberty, my  
 21 name is Philip Chen. I'm here on behalf of  
 22 BP. Do you remember questioning yesterday  
 23 about a meeting that you had with the GoM SPU  
 24 folks about what the MMS wanted reported in  
 25 terms of formation pressure tests?  
 00520:01 A. Right, I remember those  
 02 discussions.  
 03 Q. And as part of those  
 04 discussions, do you recall anyone mentioning  
 05 that they would take what the group had  
 06 concluded and go run it by the MMS to see  
 07 whether that was what they wanted?  
 08 A. Right.

Page 520:10 to 521:10

00520:10 A. (Continuing) This was -- this  
11 was the -- I remember this discussion about  
12 had it been taken to them and then was a  
13 slide pack prepared for that and had it gone  
14 and what were the results, if they did.  
15 Q. (BY MR. CHEN) So what do you  
16 remember about in the actual meetings being  
17 said about taking it to the MMS?  
18 A. Of these meetings of the 20, 25  
19 people -- yeah. I really don't remember what  
20 was decided. I just remember the discussion  
21 was around what did the MMS really want and  
22 looking at the regulations. And then I  
23 wanted to recall -- but -- but I -- but my  
24 memory was vague, as I said yesterday, that  
25 Terry told me he was going and we had some  
00521:01 discussion either about whether I should go,  
02 whether I shouldn't go. I just don't  
03 remember what was taking place, but I know I  
04 did not go.  
05 Q. Okay. I'm going to hand you a  
06 document that I've marked as Exhibit 4550,  
07 and if you could take a look at that and let  
08 me know when you're ready to answer  
09 questions.  
10 A. All right.

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00522:04 Q. What is the subject line of the  
05 e-mail?  
06 A. It's about the MMS meeting.  
07 Q. Okay. And can you read the  
08 first sentence into the record, please?  
09 A. Yes. Yesterday Scherie Douglas  
10 and I, that being Terry Jordan, met with the  
11 MMS, and he state the names of the MMS people  
12 he met with, Mike Saucier David Trocquet, and  
13 engineer trainee, to discuss BP's standard  
14 Gulf of Mexico formation pressure integrity  
15 procedure.  
16 Q. So who does Mr. Jordan report  
17 going to meet with the MMS?  
18 A. He and Scherie Douglas.  
19 Q. And who from the MMS did he meet  
20 with?  
21 A. Mike Saucier Dave Trocquet, and  
22 an engineer trainee.  
23 Q. And when he says BP's standard  
24 GoM formation pressure integrity procedure,  
25 what do you understand that to be?  
00523:01 A. That's the project we had been  
02 working on to -- to build the workbook and

03 standard procedures and reporting --  
04 reporting requirements.  
05 Q. So that was the workbook that we  
06 looked at yesterday that was marked as an  
07 exhibit?  
08 A. The workbook forms part of the  
09 procedure, but the procedure is -- is the way  
10 we're going to conduct the test, report it,  
11 the workbook is the way we execute it, and  
12 those procedures are also contained within  
13 the workbook.

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00523:20 Q. Let me ask it another way.  
21 Since we don't have realtime. What -- what  
22 did you understand to be the standard GoM  
23 formation pressure integrity procedure? What  
24 was it contained in?  
25 A. Right, it was contained in the  
00524:01 workbook that I built. It was written on one  
02 of the pages in the workbook.  
03 Q. Okay. Can you read the next two  
04 sentences?  
05 A. It says, It was a great meeting  
06 with a lot of discussion. They understood  
07 our views on the procedure. They understood  
08 our method of pumping both down the drill  
09 pipe and casing side no greater than one half  
10 barrel per minute to make friction pressure  
11 negligible.  
12 Q. Okay. And when -- when  
13 Mr. Jordan writes, "they understand our views  
14 on the procedure," what did you understand  
15 the procedure to be referring to?

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00524:17 A. This would be the plan BP had  
18 for conducting and reporting leak offs on  
19 deepwater Gulf of Mexico wells.  
20 Q. (BY MR. CHEN) And is that the  
21 procedure that is reported in the preceding  
22 sentence -- or the preceding paragraph, the  
23 standard GoM formation pressure integrity  
24 procedure?  
25 A. I -- I would believe that to be  
00525:01 true.  
02 Q. Okay. And when he writes, They  
03 understood our method of pumping down both  
04 the drill pipe and casing side no greater  
05 than half a barrel per minute to make  
06 friction pressure negligible, is that a --  
07 is -- is that part of the procedure that's

08 set forth within your -- the formation  
09 pressure integrity procedure that we've been  
10 discussing?  
11 A. In -- in the standard procedures  
12 we were developing there have been some  
13 people who pumped down the drill pipe and  
14 some people who pumped down both the drill  
15 pipe and the choke and kill line and we were  
16 trying to standardize that and so we had  
17 proposed to do both and so he apparently had  
18 discussed that with the MMS and they agreed  
19 to our reasoning.

Page 525:25 to 527:08

00525:25 Q. Okay. Now, at the -- let's read  
00526:01 the next paragraph, if you could.

02 A. "They understood taking a leak  
03 off test to the point where the pressure  
04 curve clearly breaks over and to report the  
05 maximum pressure."

06 Q. Okay. So let's take the first  
07 clause. Now, yesterday we were talking about  
08 what point constitutes the leak off -- the  
09 leak off value is, correct?

10 A. Right, so the leak off value  
11 would be the point at which we depart from  
12 linearity.

13 Q. And is that what is being  
14 addressed here in that first clause, first  
15 part of the sentence?

16 A. I think in this case he's  
17 talking about leak off test in the generic  
18 sense, meaning a pressure integrity test; and  
19 he's talking about taking a pressure  
20 integrity test to the point where we've gone  
21 well past departure from linearity. And when  
22 the curve goes up, breaks over, and either  
23 turns flat or comes back.

24 Q. I see. So you're making the  
25 distinction between breaks and clearly breaks  
00527:01 over?

02 A. Right.

03 Q. So clear --

04 A. So he's meaning -- when we say  
05 breakover, because this is the term we use in  
06 discussions, the instruction said you pump  
07 until the subsequent pressure is equal to or  
08 less than the previous pressure.

Page 527:16 to 528:20

00527:16 Q. Okay. So -- so that indicates  
17 that the use of surface mud weights is fine,

18 right?  
 19 A. And it also indicates that they  
 20 agreed to report the maximum pressure on the  
 21 IADC report that that's what they want.  
 22 Q. Right. Okay. So I want to go  
 23 back to the previous paragraph where they  
 24 said -- it says, "They understand taking a  
 25 leak off test to the point where the pressure  
 00528:01 curve clearly breaks over and to report the  
 02 maximum pressure."  
 03 Do you see that sentence?  
 04 A. Yes.  
 05 Q. Now, what do you understand that  
 06 sentence to mean?  
 07 A. That would mean that we're going  
 08 to put on the IADC report the maximum  
 09 pressure we see during the leak off test  
 10 while the pumps are pumping.  
 11 Q. And was that what you had  
 12 discussed in the meetings and conferences  
 13 that you had sat in on?  
 14 A. Yes.  
 15 Q. Okay. And --  
 16 A. And that's also what I designed  
 17 the software to do.  
 18 Q. Okay. And the software does  
 19 that?  
 20 A. Yes.

Page 530:24 to 531:02

00530:24 for you. First of all, was there any other  
 25 company aside from BP that was involved in  
 00531:01 pore pressure frac gradient prediction and/or  
 02 detection for the Macondo well?

Page 531:04 to 532:07

00531:04 A. There would have -- I don't know  
 05 about prediction. I don't recall any other  
 06 company being involved for prediction, but  
 07 for detection as part of that there should  
 08 have been a mud logging company, there would  
 09 have been an LWD company that would have at  
 10 least been recording LWD data that was used.  
 11 Sometimes there are vendors who also provide  
 12 the service of converting that. I don't know  
 13 if that company did that. And then the LWD  
 14 company also had the Geotap, which makes it  
 15 Halliburton. So they have the Geotap  
 16 pressures that were taken that would be used  
 17 in it.  
 18 And then the cementing company  
 19 would have recorded the pressures that were



20 used for the pressure integrity tests that  
21 would normally be from a cementing unit for  
22 that pressure gauge, although I can't say in  
23 this case that's where it came from.  
24 And then I think that Kate and  
25 whoever other guy that switched with her or  
00532:01 worked for the consultants or they worked for  
02 some company, and I don't know who that is.  
03 Q. (BY MR. SUMMY) Okay. And when  
04 you say "LWD," what does that mean?  
05 A. Logging while drilling.  
06 Q. Okay. And do you know -- do you  
07 know what company that was?

Page 532:09 to 532:15

00532:09 A. I -- you know, I'm not positive,  
10 but I think it was Sperry Sun, because Geotap  
11 was a Sperry Sun product.  
12 Q. (BY MR. SUMMY) Okay. And who  
13 was the cement company? Who is your  
14 understanding of who the cement company was?  
15 A. Halliburton.

Page 535:21 to 535:24

00535:21 Q. (BY MR. SUMMY) So as you sit  
22 here today, it's your testimony you have no  
23 idea what a safe drilling margin is or an  
24 unsafe drilling margin is?

Page 536:01 to 536:02

00536:01 A. I'm not qualified to make that  
02 judgment.

Page 537:10 to 537:14

00537:10 Q. (BY MR. SUMMY) But you  
11 understand that when you have an extremely  
12 narrow drilling margin between pore pressure  
13 and fracture gradient you have a potentially  
14 unsafe situation, correct?

Page 537:16 to 537:18

00537:16 A. When you have a narrow margin --  
17 you -- you have a narrow margin, right.  
18 You're close to the edge, right.