

Deposition Testimony of:

Robert Quitzau

Date: November 1, 2012

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Page 13:10 to 13:17

00013:10 ROBERT QUITZAU
11 was called as a witness by the United States and,
12 being first duly sworn, testified as follows:
13 DIRECT EXAMINATION
14 QUESTIONS BY MR. LEOPOLD:
15 Q. Okay. Hi, Mr. Quitzau. My name is Matt
16 Leopold. We met off the record. I'm
17 representing the United States today.

Page 13:21 to 13:24

00013:21 Q. I understood this is your second
22 deposition in the BP oil spill case; is that
23 right?
24 A. That's correct.

Page 18:23 to 20:04

00018:23 Q. (By Mr. Leopold) Can you -- can you
24 briefly summarize your -- your role in the
25 post-incident response to the BP oil spill?
00019:01 A. I -- I arrived at the BP office on May
02 2nd, and I started work on a Relief Well Dynamic
03 Kill Concept Team. Then I rolled into a Top Kill
04 Concept Team. Then I moved into the Top Kill
05 Procedure Writing Team, and followed that through
06 the top kill attempts. And then I moved into the
07 Relief Well Intercept Team, and stayed on that
08 through the intercept of the Macondo Well.
09 Concurrently, during that period, I also
10 assisted or -- or participated on the Team that
11 did the hydrostatic kill. And that pretty much
12 sums up.
13 And we -- I mean -- and then we -- I -- I
14 participated a little bit in the fishing attempts
15 after the well was cemented.
16 Q. So I counted six things that you listed
17 there. Was the first -- the first was Dynamic
18 Kill Concept Team, right?
19 A. Yes.
20 Q. Okay. Top Kill Concepts, right?
21 A. Yes.
22 Q. Top Kill Procedures?
23 A. (Nodding.)
24 Q. Intercept Planning?
25 A. Yes.
00020:01 Q. And then Hydrostatic Kill?
02 A. Yes.
03 Q. And then fishing, right?
04 A. Correct.

Page 21:07 to 21:14

00021:07 Q. (By Mr. Leopold) Okay. And I placed in
08 front of you a document with a BP Bates number
09 ending in 1177099. It's entitled: "Top Kill HOS
10 Centerline Team."
11 You see that, Mr. Quitzau?
12 A. I do.
13 Q. Can you mark that as our first exhibit?
14 A. 9930?

Page 21:24 to 22:06

00021:24 Q. Okay. Do you know -- have you ever seen
25 this document before?
00022:01 A. I don't recall seeing this document.
02 Q. Okay. Do you know what the Top Kill HOS
03 Centerline Team is?
04 A. It looks like a -- an org chart for the
05 personnel involved with the -- one of the boats
06 that were involved with the kill.

Page 22:18 to 22:19

00022:18 Q. And to -- to the page that says: "Top
19 Kill Houston Onshore Team."

Page 23:05 to 23:13

00023:05 Q. And is it -- are you -- is -- is the
06 reporting structure showing you reporting to Wild
07 Well Control, J. Dean Thompson, Bill Bursh --
08 Burch, and Chris Murphy?
09 A. I -- our name -- my name is under that
10 box, which is not to say that I was reporting to
11 them. I think this was -- I recall that this was
12 just kind of a -- an organization of how we would
13 be seated and organized during the kill.

Page 23:21 to 24:05

00023:21 Q. Okay. And what -- what role did the
22 Onshore Team play in the top kill planning?
23 A. Observing the progress of the attempt,
24 the kill attempts, and just noting our
25 observations as -- as the work continued.
00024:01 Q. So you -- or is -- is it your testimony
02 that this -- this org chart is referring to just
03 a group of BP individuals that observed the top
04 kill only, or did they actually help plan the top
05 kill?

Page 24:07 to 24:11

00024:07 A. This appears to be an org chart related
08 to the actual conducting of the -- one of the
09 kill attempts, but many of us were also -- had
10 participated in the planning and procedure
11 writing leading up to that point.

Page 26:07 to 26:08

00026:07 Q. (By Mr. Leopold) So you -- you're saying
08 this looks like a seating chart to you?

Page 26:11 to 26:13

00026:11 A. I wouldn't say it's a seating chart.
12 It's just -- it's just how we were grouped for
13 following the actual kill.

Page 26:15 to 26:17

00026:15 A. In other words, we were just observers,
16 and -- and this is just a structure of -- of how
17 we would be set up in the kill room.

Page 32:05 to 32:09

00032:05 Q. And is it fair to say that you were
06 personally involved in planning for the dynamic
07 kill of the Macondo Well, which was intended to
08 take place at the bottom of the well once it was
09 intercepted?

Page 32:11 to 32:21

00032:11 A. I participated in the Relief Well Dynamic
12 Kill Concept Team, and I wouldn't quite call that
13 a full procedure.
14 That lasted for a couple of days, and
15 we -- we basically fleshed out -- mainly --
16 mainly working with Wild Well Control and Boots &
17 Coots, we -- the -- the Group fleshed out how the
18 Dynamic Relief Well Team -- kill would be
19 conducted, if needed. And then that was just for
20 a couple of days, and then I moved on to the Top
21 Kill Team. And as far as any further involvement

Page 33:12 to 33:14

00033:12 Q. (By Mr. Leopold) And do I understand
13 correctly that never occurred, right?
14 A. That never occurred. And -- and I -- I

Page 42:03 to 42:14

00042:03 Q. Can you define "fishing operations" for
04 the record?
05 A. Fishing operations was -- was the efforts
06 to try to remove remaining pieces of drill pipe
07 that were in the Macondo BOP and down in the --
08 in the well.
09 Q. Okay. Did you play a planning role or an
10 operational role in that effort?
11 A. I did not.
12 Q. So your role is strictly observation. Is
13 that cor -- fair?
14 A. That's correct.

Page 43:05 to 43:12

00043:05 Q. (By Mr. Leopold) So what were you doing
06 exactly for the fishing operation?
07 A. I would observe efforts to, say, grab and
08 get over the fish on the screens. So a lot of
09 people were involved in this -- these
10 observations, and so there were discussions with,
11 you know, other people around me during those
12 operations.

Page 43:19 to 43:21

00043:19 MR. LEOPOLD: And let's mark this as
20 the next exhibit.
21 (Exhibit No. 9931 marked.)

Page 43:23 to 44:05

00043:23 Q. (By Mr. Leopold) It's a -- it's a BP
24 document, Bates number ending in 1187769. And at
25 the top, it says "MC 252 Top Kill Pumping Team."
00044:01 Do you see that, Mr. Quitzau?
02 A. Yes, I do.
03 Q. And if you turn in the next page, that's
04 the native version of the document that BP's
05 produced.

Page 44:20 to 44:22

00044:20 Q. (By Mr. Leopold) And does -- does that
21 org chart acc -- accurately reflect your memory
22 of what the leadership was of the Pumping Team?

Page 44:25 to 45:03

00044:25 A. Yes, it does.
00045:01 Q. (By Mr. Leopold) Okay. And if you would,

02 take a minute and look at the other members of
03 the Pumping Team as listed.

Page 45:05 to 45:07

00045:05 Q. Do those names on that list reflect your
06 recollection of the Members of the Pumping Team?
07 A. I recall most of these names, yes.

Page 45:21 to 45:24

00045:21 Q. (By Mr. Leopold) You -- you interacted
22 with most of the people on the Pumping Team; is
23 that correct?
24 A. That's correct.

Page 47:04 to 47:05

00047:04 Q. (By Mr. Leopold) Okay. And was your
05 input relied upon by the Team?

Page 47:08 to 47:09

00047:08 A. They -- in some cases, they used my input
09 in the procedure writing.

Page 51:06 to 51:08

00051:06 Q. (By Mr. Leopold) Was -- were you allowed
07 to share that information outside the response
08 group that you were working on?

Page 51:11 to 51:19

00051:11 A. I received many E-mails, and all of those
12 were captured within the Anadarko system; so I
13 assume that Anadarko had access to all my
14 E-mails.
15 Q. (By Mr. Leopold) Were you ever instructed
16 that you couldn't share the communications that
17 you got from the BP Pumping Team, or any other
18 Team that you were working on, outside of
19 Anadarko?

Page 51:21 to 51:22

00051:21 A. I don't recall being instructed to do
22 that or not do that.

Page 52:03 to 52:04

00052:03 Q. (By Mr. Leopold) Okay. No one ever told
04 you if it was proprietary or not. Is that fair?

Page 52:07 to 52:08

00052:07 A. I don't recall anybody telling me that
08 information was proprietary.

Page 55:10 to 55:12

00055:10 (Exhibit No. 9932 marked.)
11 Q. (By Mr. Leopold) Okay. And let's mark
12 this as the next exhibit.

Page 55:14 to 55:21

00055:14 Q. Okay. What exhibit is that, Mr. Quitzau?
15 A. 9932.
16 Q. Thank you. And I placed in front of you
17 an E-mail from Robert Sanders to David Sims,
18 dated July 26th, 2010. And attached to -- to
19 this E-mail is a document with -- with some
20 additional org charts. And I'd like you to turn
21 to Bates Page 859118.

Page 56:05 to 56:10

00056:05 Q. Have you ever seen this document before?
06 A. I have not.
07 Q. Do you know what this org chart is
08 representing?
09 A. It looks like an organization under Jon
10 Sprague.

Page 56:23 to 57:01

00056:23 Q. Does that accurately reflect -- or --
24 reflect your recollection of how the relief well
25 kill operations were organized?
00057:01 A. I don't recall this organization.

Page 57:16 to 57:21

00057:16 Q. (By Mr. Leopold) For -- for the box where
17 you're listed "Kill Pumping Operations," it says:
18 "Jerry Sherson, Bob Quitzau," and Kick "Pearcy"?
19 A. Rick Percy.
20 Q. "Rick Percy." Did -- did you work on a
21 Team with those folks?

Page 57:23 to 57:24

00057:23 A. I worked with both of those persons at
24 various times.

Page 58:01 to 58:02

00058:01 don't know what this document -- what phase of
02 your participation this is reflecting?

Page 58:05 to 58:09

00058:05 A. It looks like they're -- that we're
06 structured under the "Relief Well Kill,
07 Operations, Engineering Support." Again, what --
08 what actual phase this is referring to, I -- I --
09 I don't know.

Page 58:14 to 59:03

00058:14 Q. It says: "Ole Rygg, Bill Burch, and
15 Thomas Selbekk." Is that right?
16 A. Yes.
17 Q. Did you -- do you know those people?
18 A. Yes, I do.
19 Q. And who are they?
20 A. Ole Rygg, Tom Selbekk were with -- or are
21 with ADD, and Bill Burch is with Wild Well
22 Control.
23 Q. Let's talk about ADD. Is that also known
24 as Add Energy?
25 A. Yes.
00059:01 Q. Did you interact with Add Energy in your
02 work on the response?
03 A. I had some interactions with Add Energy.

Page 62:14 to 63:09

00062:14 Q. (By Mr. Leopold) Let me ask you about the
15 other Anadarko personnel who were involved in the
16 response. Do you recall a role played by Mike
17 Beattie?
18 A. Yes, I do.
19 Q. Who's Mike Beattie?
20 A. Mike Beattie is -- is a Manager in
21 Anadarko related to facilities and Subsea
22 Systems.
23 Q. M-h'm. And to your recollection, what
24 role is Mike playing in the BP response effort?
25 A. In my discussions with Mike Beattie, he
00063:01 indicated that he helped -- at BP's request
02 helped to identify some flow-back systems and
03 subsea flow lines. I'm not an expert in this
04 area, but he indicated that he prepared some --
05 three alternatives for BP to consider to have

06 materials to flow from the Macondo Well to
07 another field nearby, and have some way of
08 producing or injecting the Macondo fluids if BP
09 so chose to -- to do that.

Page 64:01 to 64:08

00064:01 Q. (By Mr. Leopold) Okay. What about Tim
02 Dean?
03 A. Tim Dean was involve -- involved early on
04 in the Macondo process in May in helping BP to
05 put the junk shot manifold together. And then
06 later in June he returned to participate for a
07 couple of weeks in some of the Top Hat flow-back
08 hookups that BP was conducting.

Page 64:12 to 64:20

00064:12 Q. Okay. What about Mike Lemkar?
13 A. Mike Lemkar was involved with assisting
14 Tim Dean in preparing the junk shot manifold.
15 Mike was on site at the -- at the facility
16 that -- where the manifold was being built, and
17 he was observing and making comments on welding
18 procedures. And then later in June, I believe,
19 he worked with Mike Beattie on the flow line
20 efforts that I described earlier.

Page 65:07 to 65:13

00065:07 Q. Okay. What about Dennis McDaniel?
08 A. Dennis McDaniel was involved in the June
09 timeframe in the top kill -- I'm sorry, the Top
10 Hat flow back. He -- he -- he helped on the
11 burner systems and water curtains and things like
12 that, that BP was putting together to allow for,
13 you know, flow from the Top Hat.

Page 70:05 to 70:16

00070:05 Q. M-h'm. And so what was Steve Woelfel's
06 involvement?
07 A. Steve Woelfel is -- was involved very
08 early in the response, to observe BP's efforts to
09 try to close the -- the HORIZON BOP, and then he
10 also did some brainstorming with BP on possible
11 other remedial operations.
12 Q. Okay. Do you know when his involvement
13 ceased?
14 A. I don't know the exact day, but he was
15 there on the order of a week, so he wa -- he was
16 finished in -- in the early part of May.

Page 71:14 to 71:16

00071:14 Q. Okay. And -- and who made the decision
15 to allow you to go work for BP during this
16 period?

Page 71:18 to 71:23

00071:18 A. I was asked to go to BP by Todd Durkee.
19 Q. (By Mr. Leopold) And who is Mr. Durkee?
20 A. Todd Durkee is the Drilling Manager for
21 Deepwater Gulf of Mexico for Anadarko and also
22 ov -- he's over Inter -- International
23 Operations, as well.

Page 72:09 to 72:14

00072:09 Q. Okay. H'm. All right. If you'd turn
10 with me to Tab 1 in Binder 1. And let's mark
11 this as the next exhibit.
12 THE WITNESS: It's 9933?
13 THE COURT REPORTER: (Nodding.)
14 (Exhibit No. 9933 marked.)

Page 72:25 to 73:11

00072:25 Q. Okay. All right. Now, I've placed in
00073:01 front of you an E-mail chain, actually, with --
02 with several E-mails on it, but I want to direct
03 your attention to the one at the bottom of the
04 first page.
05 This is Anadarko Bates number ending in
06 123457, and it's an E-mail from Steve Woelfel to
07 you and others at Anadarko, dated May 2nd.
08 Do you see that, Mr. Quitzau?
09 A. Yes, I do.
10 Q. Okay. And do you recall seeing this
11 E-mail previously?

Page 73:16 to 74:14

00073:16 A. The E-mail is from Steve Woelfel, and
17 he's describing his activities at BP.
18 Q. (By Mr. Leopold) Okay. And in -- in --
19 he has several numbered items here, and I'd like
20 to turn your attention to No. 2). Take -- you
21 can take a minute to look at that paragraph. And
22 he's talk -- he's talking about an idea that
23 Transocean had come up with, and then midway
24 through the paragraph, it says: "Cameron and"
25 Oceanengineering "put together pig-tail and
00074:01 assy/procedures headed to field to access P/T
02 probe, which if successful would allow us to

03 determine pressure in stack" and to "get a handle
04 on differentials which should allow better
05 estimation of flow rates, AOF's, etc."

06 You see that?

07 A. Yes, I do.

08 Q. Were -- were you aware of this effort
09 that Cameron and Oceaneering were -- were putting
10 together?

11 A. Insomuch as it's in this E-mail, at -- at
12 the time, I -- I may not have absorbed that
13 detail. But, I mean, here it is. They were
14 trying to hook up the pressure/temperature gauge.

Page 79:14 to 79:24

00079:14 Q. (By Mr. Leopold) Okay. So you -- you
15 wrote reports back to the people at Anadarko who
16 were managing you; isn't that correct?

17 A. I reported back to several people at
18 Anadarko, yes.

19 Q. Okay. Do -- can you state for the record
20 who those people were?

21 A. Todd Durkee, Pat Watson, Mike Pfister,
22 and Darrell Hollek. And it -- at different
23 times, that list got shifted around a little,
24 but -- little bit. Those were the key per --

Page 80:01 to 80:10

00080:01 A. -- persons.

02 Q. Did you have instructions about what
03 types of activities to report back to
04 "Anadarko" --

05 A. No.

06 Q. -- to Anadarko?

07 A. No.

08 Q. So you chose which activities to report
09 back. Is that fair?

10 A. That's correct.

Page 127:03 to 127:05

00127:03 Q. (By Mr. Leopold) Okay. But did you
04 understand you could share information from the
05 BP response effort outside of Anadarko?

Page 127:07 to 127:13

00127:07 A. I was -- I was under the understanding
08 that I can share information within the BP relief
09 efforts, and then with my contacts at Anadarko.

10 Q. (By Mr. Leopold) Who gave you that
11 understanding?

12 A. I -- I don't recall anybody giving me
13 that understanding.

Page 127:22 to 127:24

00127:22 Q. So that -- your understanding, was it
23 something you arrived at on your own? Is that
24 fair?

Page 128:01 to 128:05

00128:01 A. I mean, I already said that the -- the
02 Anadarko contacts were made clear to me. But as
03 far as communicating among the BP Teams, that's
04 just an understanding that I gathered from my
05 work.

Page 241:02 to 241:16

00241:02 Q. (By Mr. Leopold) Okay. Okay. Now --
03 now, post top kill and post top kill effort, you
04 continued on with BP, right?
05 A. Yes, I continued working on the relief
06 efforts.
07 Q. Okay. And you actually asked Kurt Mix if
08 you could continue working on the effort; isn't
09 that right?
10 A. I believe I asked Kurt if I -- if -- if
11 he was interested in having me participate on the
12 Relief Well Team.
13 Q. Okay. And -- and is -- what -- what was
14 the reason you made that request?
15 A. Anadarko wanted to continue to help in
16 the relief efforts.

Page 241:24 to 243:03

00241:24 Q. (By Mr. Leopold) Okay. And had you
25 gained any knowledge through your work on top
00242:01 kill that would have been relevant?
02 A. For the relief well dynamic kill?
03 Q. Right.
04 A. All of the discussion about the flow
05 paths and the -- the pumping -- the pumping data
06 that I described earlier, there were several
07 observations that might have had an impact or
08 might have been relevant to the relief well and
09 dynamic kill planning.
10 Q. Okay. Now, what aspects of -- of dynamic
11 kill were you specifically working on post top
12 kill effort?
13 A. I was not working on dynamic kill post
14 top kill. I was working on the Intercept Team.

15 The -- are you -- you -- well, let me -- you can
16 go ahead and ask your question if that doesn't
17 answer it.

18 Q. So you were working on the Intercept
19 Team. What aspects of the Intercept Team were
20 you working on?

21 A. The Intercept Team, for -- for my
22 standpoint, had to do with the drilling
23 practices, as opposed to all the surveying
24 practices. So I focused on things like shale
25 stability near -- near the blowout well and the
00243:01 angle of intercept and just general drilling
02 practices and bottom hole assemblies and things
03 that I would deal with in my regular work.

Page 337:10 to 337:23

00337:10 Q. Okay. So I wanted to start off by asking
11 you a few questions about the collaboration you
12 may have had with Transocean. So at the very
13 beginning of the day, you testified that your
14 work on the relief efforts placed you on six
15 different Teams; is that correct?

16 A. That's correct.

17 Q. And the Teams were the Relief Well
18 Dynamic Kill Concept Team, the Top Kill Concept
19 Team, the Top Kill Procedure Team, the Relief
20 Well Intercept Team, the Hydrostatic Kill Team,
21 and a Team on fishing attempts after cementing.
22 Is that correct?

23 A. That's correct.

Page 339:12 to 340:03

00339:12 Q. (By Mr. Seilie) All right. How did you
13 become a Member of these Teams?

14 A. I first arrived on May 2nd. I met with
15 Jon Sprague, per prearranged agreement with Todd
16 Durkee, and Jon Sprague assigned me to the Relief
17 Well Concept Team. And then through the course
18 of working through that Team, Members of that
19 Team were asked by John Sharadin to roll into the
20 Top Kill Team. And then once that Team was
21 started, it basically stayed together into the
22 Procedure Team, through the -- the top kill
23 efforts.

24 Following the top kill efforts, I
25 approached, you know, Anadarko, wanting to
00340:01 continue to provide assistance as needed. We
02 approached BP, and BP asked me to participate on
03 the Relief Well Intercept Team.

Page 341:02 to 341:04

00341:02 Q. (By Mr. Seilie) So this is an E-mail
03 chain that's full of updates written by you. Is
04 that a correct assessment?

Page 341:06 to 341:20

00341:06 A. There are numerous updates written by me.
07 Q. (By Mr. Seilie) What was the purpose of
08 these updates?
09 A. The updates were to inform Anadarko of
10 the ongoing activities in the relief efforts.
11 Q. And how frequently did you send these
12 updates?
13 A. There wasn't a set frequency, but
14 typically every day or every other day, give or
15 take.
16 Q. And these updates generally contained
17 information regarding what you'd been doing in
18 the relief efforts for the Macondo Well; is that
19 correct?
20 A. That's correct.

Page 342:04 to 342:06

00342:04 Q. And in general, did Transocean and
05 Anadarko ever communicate about source control
06 decision-making?

Page 342:08 to 342:10

00342:08 A. Anadarko was not involved in
09 decision-making. We -- we didn't communicate
10 about such deci -- any decision-making.

Page 342:23 to 342:25

00342:23 Q. Okay. So noth -- nothing that Transocean
24 did or communicated to Anadarko was used
25 ultimately by BP in source control --

Page 343:02 to 343:02

00343:02 Q. (By Mr. Seilie) -- to your knowledge?

Page 343:05 to 343:09

00343:05 So none of the ideas that were
06 communicated to Anadarko by Transocean ended up,
07 to your knowledge, being used by BP. Is that
08 correct?
09 A. That's correct.

1 UNITED STATES DISTRICT COURT
2 EASTERN DISTRICT OF LOUISIANA

3 IN RE: OIL SPILL) MDL NO. 2179
4 BY THE OIL RIG)
5 "DEEPWATER HORIZON" IN) SECTION "J"
6 THE GULF OF MEXICO, ON)
7 APRIL 20, 2010) JUDGE BARBIER
8) MAG. JUDGE SHUSHAN

9 REPORTER'S CERTIFICATION
10 TO THE ORAL AND VIDEOTAPED DEPOSITION OF
11 ROBERT QUITZAU,
12 UNITED STATES OF AMERICA 30(b)(6)
13 NOVEMBER 2, 2012
14 VOLUME 2

15 I, Emanuel A. Fontana, Jr., Certified
16 Shorthand Reporter in and for the State of Texas,
17 hereby certify to the following:

18 That the witness, **ROBERT QUITZAU**, was duly
19 sworn by the officer and that the transcript of
20 the oral deposition is a true record of the
21 testimony given by the witness;

22 That the deposition transcript was submitted
23 on November 7, 2012, to the witness or to
24 Attorney Connie Delgado for the witness to
25 examine, sign, and return to Worldwide Court
Reporters, Inc., by December 22, 2012.

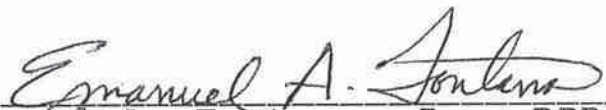
That the amount of time used by each party
at the deposition is as follows:

Mr. Seilie - 56 Minutes
Mr. Diaz - 4 Minutes
Mr. Hartley - 8 Minutes
Ms. Wilms - 2 Minutes
Mr. Leopold - 1 Hour, 1 Minute

1 I further certify that I am neither counsel
2 for, related to, nor employed by any of the
3 parties in the action in which this proceeding
4 was taken, and further that I am not financially
5 or otherwise interested in the outcome of the
6 action.

7
8 SUBSCRIBED AND SWORN to by me on this 2nd
9 day of November, 2012.

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I, ROBERT QUITZAU, have read the foregoing deposition and hereby affix my signature that same is true and correct, except as noted on the attached Amendment Sheet.

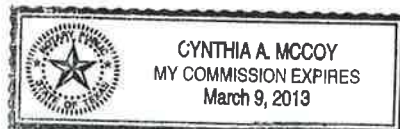
Robert Quitzau
ROBERT QUITZAU

THE STATE OF Texas)
COUNTY OF Montgomery)

Before me, Cynthia A. McCoy, on this day personally appeared ROBERT QUITZAU, known to me (or proved to me under oath or through Company Profile) to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 10th day of December, 2012.

Cynthia A. McCoy
NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS
COMMISSION EXPIRES: 3-9-13



PURSUANT TO CONFIDENTIALITY ORDER

Errata to Deposition of Robert Quitzau
November 1-2, 2012

Page/Line	Change	Reason
15:5	"that" to "around 2004"	Clarification
28:2	"Sherson" to "Shursen"	Typographical error
63:10	"Reisel" to "Rigel"	Typographical error
64:12	"Lemkar" to "Lemker"	Typographical error
64:13	"Lemkar" to "Lemker"	Typographical error
93:25	"you" to "you're"	Typographical error
130:3	"Team, the" to "Team. The"	Typographical error
184:18	"pumping 16.4'" to "pumping 16.4"	Typographical error
184:19	"gallon "mud ramping up quickly to 40'" to "gallon mud ramping up quickly to 40"	Typographical error
184:20	"with" Wild Well" to "with Wild Well"	Typographical error
184:21	"Control, "Bill Burch" to "Control, Bill Burch"	Typographical error
187:3	"pumping" 4.2" ppg" to "pumping 4.2 ppg"	Typographical error
187:4	"keep" oil" to "keep oil"	Typographical error
187:5	"flowing -- "oil" to "flowing -- oil"	Typographical error
195:13	"teamwork" to "team work"	Typographical error
200:17	"Expert" to "expert"	Typographical error
213:10	"never" to "versus"	Typographical error
214:9	"were" to "was"	Typographical error
225:12	"after. One" to "after one"	Typographical error
227:4	"Loya" to "Hollek"	Typographical error
230:15	"on, in" to "on in"	Typographical error
258:20	"Proposal" to "proposal"	Typographical error
266:2	"would" to "was"	Typographical error
266:3	"speculate in the HAZID, could" to "speculated in the HAZID could"	Typographical error
283:12	"cop" to "top"	Typographical error
307:6	"met" to "meet"	Typographical error
404:21	"Concept Team Relief Well" to "Concept Team -- Relief Well"	Typographical error
449:15	"Regulatory" to "regulatory"	Typographical error
463:2	"relief well efforts" to "relief efforts"	Typographical error
475:21	"co-process" to "kill process"	Typographical error


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