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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

ORIGINAL

IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 14308

APPLICATION OF RSC RESOURCES LIMITED
PARTNERSHIP TO ALLOW TWO OPERATORS
ON A WELL UNIT, EDDY COUNTY,
NEW MEXICO

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

April 16, 2009
Santa Fe, New Mexico

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BEFORE: DAVID BROOKS: Hearing Examiner
TERRY WARNELL: Technical Advisor
RICHARD EZEANYIM: Technical Advisor

This matter came for hearing before the New Mexico
Oil Conservation Division, David Brooks Hearing Examiner,
on April 16, 2009 at the New Mexico Energy, Minerals and
Natural Resources Department, 1220 South St. Francis
Drive, Room 102, Santa Fe, New Mexico.

REPORTED BY: Peggy A. Sedillo, NM CCR NO. 88
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For the Applicant:

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1 HEARING EXAMINER: At this time we'll call Case
2 No. 14308. That is the Application of RSC Resources
3 Limited Partnership to allow two operators on a well unit,
4 Eddy County, New Mexico. Call for appearances.

5 MR. BRUCE: Mr. Examiner, I am Mr. Bruce from
6 Santa Fe representing the Applicant. I have two witnesses
7 to be sworn.

8 MS. MUNDS-DRY: Mr. Examiner, Ocean Munds-Dry
9 from the law firm Holland and Hart here representing Three
10 Span Oil and Gas this morning. I have one witness.

11 MR. HALL: Mr. Examiner, Scott Hall, Montgomery
12 and Andrews Law Firm of Santa Fe, appearing on behalf of
13 COG Operating LLC. No witnesses this morning.

14 HEARING EXAMINER: Okay. Are the witnesses
15 present?

16 MR. BRUCE: Yes.

17 MS. MUNDS-DRY: Yes.

18 HEARING EXAMINER: Would the witnesses please
19 stand, state your name, and then you'll be sworn.

20 (Note: The witnesses were placed under oath by
21 the court reporter.)

22 HEARING EXAMINER: Would the witnesses please
23 state their names for the record?

24 MR. CATE: Randall Cate.

25 MR. SMITH: Kirk Smith.

1 MR. BALDRIDGE: Earl Baldrige.

2 HEARING EXAMINER: Thank you. You may be
3 seated.

4 KIRK E. SMITH,

5 The witness herein, after first being duly sworn
6 upon his oath, was examined and testified as follows:

7 DIRECT EXAMINATION

8 BY MR. BRUCE:

9 Q. Would you please state your full name for the
10 record?

11 A. My name is Kirk Elwood Smith.

12 Q. And where do you reside?

13 A. Midland, Texas.

14 Q. What is your occupation?

15 A. I'm a petroleum landmand.

16 Q. And what is your relationship to the applicant
17 in this case?

18 A. I am a contractor to RSC Resources, LP.

19 Q. And as part of that, your relationship with RSC,
20 have you been -- Do you have a company of your own?

21 A. Yes, I do.

22 Q. And what is the name of that?

23 A. Peregrine Production, LLC.

24 Q. And on behalf of Peregrine and RSC, the
25 applicant, have you taken a number of term assignments on

1 acreage in the proposed well unit?

2 A. Yes, I have.

3 Q. And have you familiarized yourself with the
4 title matters in this case?

5 A. Yes, I have.

6 Q. And RSC has proposed several wells in this area
7 and you have done the land work on this; is that correct?

8 A. That's correct.

9 Q. Have you previously testified before the
10 Division as a petroleum landman?

11 A. Yes, I have.

12 Q. And were your credentials as an expert accepted?

13 A. They were.

14 MR. BRUCE: Mr. Examiner, I tender Mr. Smith as
15 an expert petroleum landman.

16 HEARING EXAMINER: So qualified.

17 Q. Mr. Smith, could you identify Exhibit 1 for the
18 Examiner and tell him what that shows?

19 A. Exhibit 1 is a plat of Eddy County, New Mexico,
20 Township 16 South, Range 28 East, specifically the north
21 half of the south half of Section 30.

22 Q. Okay. And the north half of the south half of
23 Section 30 is the proposed well unit for the RSC's
24 horizontal well, is it not?

25 A. That's correct, the Lucky Wolf Fed. Com. No.

1 2-H.

2 Q. Now, the well bore of the Lucky Wolf 30-2 is not
3 shown on this plat, is it?

4 A. That's correct.

5 Q. But is it a horizontal well which crosses all
6 four quarter quarter sections?

7 A. It is a horizontal well that will cross the
8 entire -- all four quarter quarter sections.

9 Q. Okay. Now, highlighted in red on this plat is
10 another well, what is that well?

11 A. That is the Three Span Fed. Com. No. 1.

12 Q. And what type of well is that at the present?

13 A. That currently is a Wolf Camp producer.

14 Q. What was it originally drilled as?

15 A. If was originally drilled as an oil producer.

16 Q. Okay. And who is the operator of that well?

17 A. Three Span Oil and Gas Company, Incorporated.

18 Q. And that is a vertical well?

19 A. That's correct.

20 Q. And you understand that since RSC's well intends
21 to cross the northeast quarter of the southwest quarter of
22 Section 30, you understand that Division rules allow more
23 than one well, one operator on a well unit, but notice had
24 to be given to Three Span, correct?

25 A. That's correct.

1 Q. And notice was given to Three Span and it
2 objected, do I understand?

3 A. That's my understanding, yes.

4 Q. And are you here today requesting permission
5 from the OCD to have two operators of a well -- of wells
6 on the northeast quarter of southwest quarter of
7 Section 30?

8 A. That's correct.

9 Q. Now, looking at Exhibit 2, which is an
10 assignment, Mr. Smith, what is that?

11 A. Exhibit 2 is a conveyance assignment and bill of
12 sale recorded at Special Public Record 82, Page 355 of the
13 record of Eddy County, New Mexico. And this conveyance
14 assignment and bill of sale is the source of title to the
15 Three Span well bore.

16 Q. Okay. And does the last page of that exhibit
17 reflect that it is a well bore only assignment?

18 A. Yes, that is correct, it is a well bore
19 assignment only.

20 Q. Now, in this well, one of the parties who would
21 be participating is COG Operating, is it not?

22 A. I'm sorry?

23 Q. One of the other working interests owners in
24 this well, in RSC's proposed well is COG?

25 A. That's correct. In RSC's well, COG is a

1 participant, that is correct.

2 Q. Okay. Now, what is Exhibit 3?

3 A. Exhibit 3 is an excerpt of a drilling title
4 opinion prepared by Hinkle, Hensley, Shanor and Martin,
5 Mr. Douglas Lunsford, Esquire, covering the horizontal
6 well bore of the RSC well.

7 Q. And what does that opinion state with respect to
8 the term assignment that was just submitted as Exhibit 2?

9 A. On Page 12, Part 2(a)(i), Mr. Lunsford explains
10 what the rights of Three Span Oil and Gas are in the well
11 bore.

12 HEARING EXAMINER: The Exhibit 3 I have has
13 only four pages.

14 MR. BRUCE: Excuse me, Mr. Hearing Examiner, it
15 should be the second page.

16 THE WITNESS: I'm sorry, specifically, it's Page
17 12 of the title opinion. The entire title opinion is not
18 here. It is Page 2 of the exhibit.

19 HEARING EXAMINER: Okay.

20 Q. And does Mr. Lunsford, as a title attorney,
21 state that the interest acquired under this assignment is
22 a well bore only assignment?

23 A. That's correct, that's what he states.

24 Q. Now, this assignment was prepared for COG. Has
25 RSC and Peregrine Production been authorized to use this?

1 A. Yes, we have. There is a confidentiality
2 agreement that allows us to use this instrument for
3 purposes of the well bore.

4 Q. Okay. Now next, let's move on to Exhibit 4.
5 What is Exhibit 4?

6 A. Exhibit 4 is a Farmout Agreement dated
7 December 5, 2008, by and between Three Span Oil and Gas
8 Company, E. Earl Baldrige III, and WKKA, Ltd., as farmor,
9 and Peregrine Production, LLC, is farmee.

10 Q. And what land did this farmout originally cover?

11 A. This farmout originally covered Section 30, the
12 east half of the southeast and the northeast northeast of
13 Township 16 South, Range 28 East from the surface to the
14 base of the Wolf Camp formation only, Eddy County, New
15 Mexico.

16 Q. Okay. In looking at Exhibit 1, these are all
17 federal leases involved in this well, are they not?

18 A. That's correct, yes.

19 Q. And did Three Span and others own interests
20 besides in the well bore of the Crow Flats Well, they
21 owned working interests in other acreage within the
22 proposed well unit?

23 A. That is correct.

24 Q. And they farmed out that acreage too?

25 A. That is correct.

1 Q. Did you have discussions with Mr. Baldridge and
2 Three Span and these other people of the intent of RSC
3 with respect to the drilling of the well?

4 A. Absolutely, yes. They were acutely familiar,
5 yes.

6 Q. Okay. Did you inform them that you were
7 planning on drilling a horizontal Wolf Camp well?

8 A. Yes, we did, and they were aware of that.

9 Q. What is Exhibit 5?

10 A. Exhibit 5 is a memorandum of an agreement which
11 was recorded in the record of Eddy County, New Mexico, the
12 Official Public Record 761, Page 1066, which evidences the
13 farmout agreement that you see as Exhibit 4.

14 Q. Okay. And was that farmout agreement
15 subsequently amended?

16 A. Yes, it was.

17 Q. And what led to that, did you find out that
18 there were other interests involved?

19 A. What led to that was that our title research
20 indicated that Three Span Oil and Gas, et. al., Earl
21 Baldridge III, and WKKA owned a small interest in the
22 northeast southwest which was a contractual interest out
23 of the Crow Flats working interest unit.

24 Q. Okay.

25 A. And so Exhibit 6 was prepared to accommodate

1 that title evidence.

2 Q. Okay. So what you're saying is, even though
3 Exhibit 2 was a well bore only assignment and that's what
4 Three Span operates the well under, they also owned other
5 interests in the northeast quarter of the southwest
6 quarter?

7 A. That is correct.

8 Q. And you obtained this amendment which was
9 submitted as Exhibit 6?

10 A. That is correct.

11 Q. So your farmout agreement covers their working
12 interests in the 40 acres where the Crow Flats Well is
13 located?

14 A. That is correct.

15 Q. Now, there was some related force pooling
16 proceedings with respect to this well, were there not?

17 A. That's correct.

18 Q. There are three or four separate tracts of lands
19 within the well unit?

20 A. That is correct.

21 Q. And approximately how many working interest
22 owners?

23 A. About 32, I believe, 32 separate working
24 interest owners.

25 Q. And have you obtained -- Peregrine Production on

1 behalf of RSC obtained farmouts or term assignments on the
2 vast majority of those interests?

3 A. Yes. At this point, all but two parties we've
4 finalized our agreements with.

5 Q. Okay. And since you obtained the term
6 assignment -- the amended farmout agreement, I should say,
7 from Three Span, does it own any working interest in the
8 northeast quarter of the southwest quarter of Section 30
9 outside the well bore of the Crow Flats well?

10 A. Yes, it does.

11 Q. But they are subject to your farmout?

12 A. That's correct.

13 Q. Okay. So at this point, Peregrine Production
14 and RSC own those working interests?

15 A. That's correct, during the term of the farmout.

16 Q. Okay. And so RSC has the right to drill the
17 well?

18 A. That is correct.

19 MR. BRUCE: Mr. Examiner, I'm simply handing you
20 as Exhibit 7 the letter that I sent to Three Span
21 requesting, pursuant to Division rules, permission for two
22 operators on a well unit.

23 Finally, Mr. Examiner, submitted as Exhibit 8 is
24 the Affidavit of Notice that was sent to Three Span. I
25 never did get the green card back, but the postal service

1 website shows that the letter was delivered. And Three
2 Span is here, so I believe I complied with the notice
3 requirements of the Division's rules.

4 HEARING EXAMINER: Well, as to Three Span, if
5 there's any defect in notice, they've waived it by
6 appearance.

7 Q. Mr. Smith, were Exhibits 1 through 6 prepared by
8 you or under your supervision?

9 A. Yes. Specifically, Exhibits 1, 2, 4, 5 and 6
10 were prepared by me, Exhibit 3 was prepared by Mr. Doug
11 Lunsford.

12 Q. And it's part of RSC's business records?

13 A. That's correct.

14 Q. And in your opinion, is the granting of RSC's
15 application to allow us to drill the Lucky Wolf Fed. Con.
16 30 No. 2 Well in the interest of conservation and
17 prevention of waste?

18 A. Yes, sir, it is.

19 MR. BRUCE: Mr. Examiner, I'd move the admission
20 of RSC's Exhibits 1 through 8.

21 MS. MUNDS-DRY: No objection.

22 HEARING EXAMINER: Exhibits 1 through 8 are
23 admitted.

24 MR. BRUCE: I have no further questions for the
25 witness.

1 HEARING EXAMINER: Ms. Munds-Dry?

2 MS. MUNDS-DRY: I just have a few questions, I
3 believe.

4 CROSS-EXAMINATION

5 BY MS. MUNDS-DRY:

6 Q. Mr. Smith, do you have your Exhibit 4 in front
7 of you there? I believe it is the original farmout
8 agreement.

9 A. Yes, I do.

10 Q. When you first approached Three Span, you
11 responded to Mr. Bruce that Three Span did know very well
12 that you were intending to drill a horizontal well; is
13 that correct?

14 A. Oh, yes.

15 Q. What did you propose, what were the footage
16 locations for the original proposed horizontal well, do
17 you recall?

18 A. The original footage locations were with respect
19 to the 30 1-H. Again, when we originally spoke with Three
20 Span, et. al., we were -- our title information indicated
21 that they were only going to be in the 1-H. They were not
22 in the northeast southwest outside of the well bore.

23 And so, the footage locations for the 1-H were
24 from the east boundary as a surface location, and I
25 don't -- the engineer can help you with the farmout

1 question.

2 And the bottom hole location would be at a
3 terminus on the west side of the section. We subsequently
4 changed that.

5 Q. Why did you change that?

6 A. You'll have to ask the engineer about that.

7 Q. Okay. When that location did change, when did
8 you propose that new location to Three Span?

9 A. We would have proposed that by notice from
10 Mr. Bruce.

11 Q. Do you recall approximately when that was?

12 A. I'll defer again to Mr. Bruce. We've gone
13 through numerous hearings on this south half of 30.

14 Q. Okay. As far as you know, were there two
15 different locations that were proposed to Three Span for
16 the location of the well?

17 A. On the 1-H?

18 Q. On the 1-H.

19 A. On the 1-H, I believe so, yes. Three Span
20 originally made the farmout on December 5, 2008. So we
21 may have changed that location after --

22 As matter of fact, I'd like to change my
23 testimony. I believe that we made this farmout agreement
24 with Three Span on December 5th as it is dated, and we
25 changed the location in January.

1 So Three Span would not have received a notice
2 of change of location as it had already farmed out. They
3 would not have been a party to the pooling activity.

4 Q. I see. And Mr. Smith, when was the 2-H well
5 first proposed to Three Span?

6 A. It was proposed prior to the December 5th
7 farmout.

8 Q. Do you know approximately when that was?

9 A. No, I'm sorry, I don't remember.

10 Q. And has that location changed?

11 A. It also changed, yes.

12 Q. And was that changed location proposed to Three
13 Span?

14 A. It was. I believe so.

15 Q. Do you know approximately when that was?

16 A. Probably in January as well.

17 Q. The current location for the Lucky Wolf 2-H, how
18 far is that well location from the Three Span Crow Flats
19 Fed. Com. No. 1?

20 A. I'm sorry, counselor, I'm not qualified to
21 answer that question.

22 Q. Okay. Your engineer, do you believe he'll know
23 that?

24 A. I believe he would be qualified to answer that
25 question.

1 Q. Okay. I believe that's all the questions I
2 have. Thank you.

3 HEARING EXAMINER: Okay. What is the current
4 status of the -- I'm sorry, Mr. Hall?

5 MR. HALL: I have no questions.

6 HEARING EXAMINER: What is the current status of
7 the pooling proceeding?

8 THE WITNESS: The pooling proceeding for the 2-H
9 has been taken under advisement, I believe, from two weeks
10 ago by the Commission.

11 HEARING EXAMINER: Okay. And what is the unit
12 for the 2-H?

13 THE WITNESS: The unit for the 2-H is the north
14 half of the south half of Section 30 of 16 and 28.

15 HEARING EXAMINER: Okay. And then there is
16 another pooling proceeding?

17 THE WITNESS: That is correct, one that has been
18 continued until today, which is the other case you have
19 before you, the south half of the south half of
20 Section 30.

21 HEARING EXAMINER: Okay. So the other pooling
22 proceeding relates to a different unit?

23 THE WITNESS: That's correct.

24 HEARING EXAMINER: And it's not involved with
25 this controversy because it's a different unit?

1 THE WITNESS: That's correct.

2 HEARING EXAMINER: Okay. Now, the proposed well
3 will go all the way across the unit from east to west?

4 THE WITNESS: Yes, sir, it will.

5 HEARING EXAMINER: And what is the distance
6 between that well bore and the Three Span?

7 THE WITNESS: Again, I would defer that to the
8 engineer.

9 HEARING EXAMINER: Okay. And I suppose any
10 questions I have about the completion of the wells, that
11 would be for the engineer?

12 THE WITNESS: If you please.

13 HEARING EXAMINER: Okay now, you said that the
14 well bore language was on the last page of Exhibit 3 and I
15 couldn't find it. Where is the specific language?

16 THE WITNESS: Specifically, it would be Page 4
17 of Exhibit 2.

18 HEARING EXAMINER: Okay, so it's in the exhibit?

19 THE WITNESS: Yes, sir. And this language was
20 read into the record during the Lucky Wolf 2-H pooling
21 hearing two weeks ago.

22 HEARING EXAMINER: Okay. Very good. And once
23 again, in the title opinion that's Exhibit No. 3, which
24 paragraph is specifically relevant there?

25 THE WITNESS: I would refer to Page 2 of the

1 exhibit, Paragraph 2, Part A, Subpart I.

2 HEARING EXAMINER: Okay.

3 THE WITNESS: And it would be -- the main body
4 would be in Line 6 of that Subpart I.

5 HEARING EXAMINER: Now, in your proceeding that
6 you brought to pool these interests, were you proposing to
7 exclude the Three Span well from the pooled unit?

8 THE WITNESS: I'm sorry, I don't understand the
9 question.

10 HEARING EXAMINER: Well, I can understand why a
11 lot of people wouldn't understand it, but I would think a
12 landman should understand it.

13 THE WITNESS: Well, the --

14 HEARING EXAMINER: The pooled unit is included
15 in the entire north half of the south half of
16 Section 30?

17 THE WITNESS: That's correct.

18 HEARING EXAMINER: The Three Span well is
19 located in the north half of the south half of Section 30?

20 THE WITNESS: That's correct.

21 HEARING EXAMINER: If you farmed a unit
22 comprising the north half of the south half of Section 30,
23 then that would, in effect, reconsolidate -- other things
24 equal -- that would in effect reconsolidate the well bore
25 interest in the unit. But my assumption is, that was not

1 your intention?

2 THE WITNESS: No. The well bore has the right
3 of capture and does not own any correlative rights. Those
4 correlative rights have been reserved in Exhibit 2 by the
5 assignors who are now RSC Resources.

6 So, RSC Resources desires to develop its rights
7 through that well bore through that entire unit.

8 HEARING EXAMINER: But whatever you've asked
9 for, you would not object, I take it, if the Division
10 entered a pooling order that expressly excludes the Three
11 Span well?

12 THE WITNESS: Yes. We don't have any rights to
13 that well bore.

14 HEARING EXAMINER: Okay. And you're not seeking
15 to pool that into your unit?

16 MR. BRUCE: No, we're not, Mr. Examiner.

17 THE WITNESS: I'm sorry, no, we're not.

18 HEARING EXAMINER: If that was the case, we're
19 treading in a very unexplored territory here, I think.
20 But I want to get it right if we can.

21 Mr. Ezeanyim, any questions for this witness?

22 MR. EZEANYIM: Yes. Mr. Smith, this case is
23 interesting. We, three or four years ago, went ahead and
24 changed our rules and allowed multiple operators on the
25 spacing units so that these cases don't come here anymore.

1 We're here now. Two operators came in to say
2 "Allow multiple operators." We allowed multiple
3 operators. So you're here and that's why we did the
4 change, to make multiple operators.

5 I don't like it, because we did that once, it
6 was a long time to do it, and now you guys are coming to
7 say allow more operators. That's really interesting. But
8 anyway.

9 I want to go back to Exhibits No. 4 and 6. What
10 I want you to tell me there, according to your testimony,
11 is that a farmout agreement by Three Span -- my questions
12 are going to what I wrote down here is, on that farmout
13 agreement, could Three Span drill on that well on that
14 northeast southwest quarter of Section 30?

15 THE WITNESS: Mr. Examiner, no, Three Span could
16 not drill an addition well in the northeast southwest.
17 They only own the well bore. Neither could they sidetrack
18 their existing well bore, but they would lose their well
19 bore, they would not -- they did not have the rights under
20 Exhibit 2 to replace that well.

21 MR. Ezeanyim: Okay. Is that detailed in those
22 farmout agreements?

23 THE WITNESS: Well, no. The farmout agreement
24 covers the what we are calling the correlative rights in
25 the northeast southwest. Three Span's interests in the

1 farmout agreement as it applies to the northeast southwest
2 is separate from its rights in the well bore. They're two
3 separate issues.

4 The well bore is owned by Three Span
5 specifically. And in light of that, I would refer to
6 Page 2 of Exhibit 6. And because we -- when we made this
7 agreement with this amendment with Three Span, we
8 specifically dealt with this. And I would refer to the
9 second land entry, and it says specifically,

10 "Save and exempt the Crow Flats
11 Com. No. 1 well bore as more fully
12 described in that certain conveyance,
13 assignment and bill of sale dated effec-
14 tive 6/1/90 from Eagle Oil and Gas, et. al.,
15 as assignor, to Cheyenne Resources as
16 assignee, recorded at Official Public
17 Record Volume 82, Page 355, record of
18 Eddy County, New Mexico."

19 So it was not our intent in the farmout to
20 encumber Three Span's operations on the Fed. Com. No. 1.
21 They were specifically separated and they could enjoy
22 their rights in that well bore.

23 MR. Ezeanyim: Okay. So your answer is yes,
24 that if Three Span -- You mean to tell me that they need
25 to drill an infield in the northeast southwest quarter,

1 they can drill because of this -- I don't understand all
2 these legal -- whatever you say. But I just want to know
3 whether they have the right to drill an infield.

4 THE WITNESS: In my opinion, they do not have
5 the right to drill an additional well bore in the
6 northeast southwest. They do not own those rights.

7 Three Span specifically granted us the right to
8 develop the reserves in the northeast southwest outside of
9 the well bore. That is what the farmout and its amendment
10 constitutes. They specifically gave us those rights to
11 develop that. And -- Well, that's my testimony.

12 MR. EZEANYIM: Okay. That's my only question.

13 HEARING EXAMINER: Terry?

14 MR. WARNELL: No questions.

15 HEARING EXAMINER: Okay. Anything further,
16 Mr. Bruce?

17 MR. BRUCE: Just one question.

18 REDIRECT EXAMINATION

19 BY MR. BRUCE:

20 Q. Mr. Smith, when Ms. Munds-Dry was asking you
21 questions about the 30-1 well, that's the south half south
22 half which is the subject of the next case we'll be
23 talking about?

24 A. That's correct.

25 MR. BRUCE: Okay.

1 HEARING EXAMINER: Anything else from anyone?
2 Very good. The witness may stand down. You may call your
3 next witness.

4 MR. BRUCE: I call Mr. Cate to the stand.

5 RANDALL CATE,

6 The witness herein, after first being duly sworn
7 upon his oath, was examined and testified as follows:

8 DIRECT EXAMINATION

9 BY MR. BRUCE:

10 Q. Please state your name for the record.

11 A. My name is Randall Cate.

12 Q. And where do you reside?

13 A. Midland, Texas.

14 Q. And what is your relationship to RSC Resources
15 Limited Partnership?

16 A. That is my company. I'm the president and sole
17 owner of the company.

18 Q. And is it a duly qualified well operator in the
19 state of New Mexico?

20 A. Yes, it is.

21 Q. By trade, what is your occupation?

22 A. Petroleum engineer.

23 Q. Have you previously testified before the
24 Division as a petroleum engineer?

25 A. Yes, I have.

1 Q. And were your credentials as an expert engineer
2 accepted as a matter of record?

3 A. Yes.

4 Q. And are you familiar with the engineering
5 matters involved in this application?

6 A. Yes, I am.

7 MR. BRUCE: Mr. Examiner, I tender Mr. Cate as
8 an expert petroleum engineer.

9 HEARING EXAMINER: Any objection?

10 MS. MUNDS-DRY: No objection.

11 MR. HALL: No objection.

12 HEARING EXAMINER: So qualified.

13 Q. Mr. Cate, could you refer to your Exhibit A and
14 discuss the location of RSC's proposed well and also the
15 location of the Three Span well?

16 A. Yes. Exhibit A, first page is the C-102 that --
17 it will help illustrate what we're dealing with here. The
18 north half north half is the spacing unit.

19 In red outline is the Lucky Wolf 30-2-H well
20 plan. And the green dot in the northeast of the southwest
21 quarter there is the Three Span well bore. And it's 1,980
22 surface from the south and the west of Section 30.

23 And we have designed the well bore to stay
24 within the producing area which by requirements are going
25 to be 330 feet from the lease lines.

1 And so what we will do is stay as close to that
2 330 feet, which puts us at 2,310 from the south line, we
3 will stay as close to that northern boundary of the
4 producing area until we pass the Three Span 40 acre
5 section. And then we plan to turn to the south and east
6 to terminate 330 feet from the east line and 1,980 from
7 the south line.

8 MR. EZEANYIM: Mr. Cate, could you repeat that?

9 THE WITNESS: Yes. In relation to the well, it
10 is at 1,980 from the south line. Our well plan will be
11 2,310 or so. That is our limit. That is our producing
12 area limit, is 2,310.

13 So it's 330 feet further north from the Three
14 Span well bore that we will pass by in that 40 acres.
15 Once we pass through that 40 acres, then we plan to turn
16 the well bore to the southeast and to a terminus, you
17 know, through the center of the producing area.

18 So the plan is that our well bore, the 30-2-H
19 well bore should pass no closer than -- and I'm going to
20 say 300 feet. We have 330 feet these days.

21 The technology, if you wish, you can stay within
22 a five feet window with the horizontal technology. So
23 just giving us a little leeway, I feel that we will be at
24 least 300 feet from the Three Span well bore.

25 Q. Mr. Cate you have discussed this in the pooling

1 hearing, but in your opinion, is a horizontal well bore
2 necessary in order to economically produce the reserves in
3 the north half south half of Section 30?

4 A. Yes, it is. This horizontal play has developed
5 in the last two or three years. And I've got a plat
6 coming up -- I think Exhibit C, that I can discuss that
7 little bit better. It will show the area and the amount
8 of activity in it.

9 Q. Okay.

10 A. But yes, the horizontal technology has now
11 proven itself as the way to recover these reserves. The
12 vertical wells cannot do it economically.

13 Q. Exhibit A actually has three pages to it. Has
14 your APD for the well been approved by the BLM?

15 A. Yes, it has. Yes, the second page was simply a
16 plan by Black Viper, who is the directional drilling
17 company, that correlates to what I've shown on the C-102.

18 Our APD has been approved by the BLM. And the
19 copy here, it was approved on 4/9/09, as a matter of fact.

20 Q. Okay. Let's move on to your Exhibit B, the land
21 plat you were discussing. What does that show?

22 A. Exhibit B is the land plat that shows -- Mostly,
23 it's sections inside of Township 16 South and 28 East. It
24 also goes partly over into the western side of 16 South
25 and 29 East.

1 And if you'll notice, these are the
2 horizontal -- the little, I guess sticks, diagrams -- that
3 are crossing these sections, which are a mile by a mile,
4 are the either drilled or proposed -- or APD'ed, I'm
5 sorry -- permitted well bores that have been staked to
6 date or drilled to date in this township. And there's 20
7 something so far.

8 And then over into Townships 16 and 28, there's
9 20 or 30 over there also. To outline -- well, Section 30
10 is in the south 30 southwest corner of this plat, and I
11 show pictorially -- and it's visually accurate as to the
12 distance between our proposed lateral and the vertical
13 well, the Three Span well.

14 But if you go to the north, what I've
15 highlighted in yellow and green is, this is a common
16 practice by operators in this play to drill near existing
17 vertical well bores. And each of these that I've
18 highlighted in yellow -- For instance, if you go to the
19 section north of 30 into 19, COG has two wells -- well,
20 actually, they have four wells staked, but the one in the
21 north half of the south half is virtually going to twin an
22 existing well and produce 20,000 barrels out of the Wolf
23 Camp that is no longer producing.

24 But they're going to twin it within 100 feet and
25 then kick off their well bore and drill from there. There

1 is not a concern that the existing vertical well bore that
2 has produced Wolf Camp reserves would damage their well.

3 My point being, I understand Mr. Baldrige is
4 trying to protect his interest, but as an operator of a
5 horizontal well, we're about to spend \$3 million to \$4
6 million, we would not put ourselves at risk by drilling
7 close enough to a vertical well that during either the
8 drilling operation or the completion operation we would
9 risk the investment we're making.

10 And that's what my point here is, that not just
11 RSC, but COG, Cimarex up in Section 16 -- As a matter of
12 fact, they used these existing well bores to steer near
13 the Wolf Camp pay. It's a tool that we use to stay in the
14 pay.

15 So you can see -- I counted at least eight or
16 nine of these, several that have actually been reentered
17 after producing the Wolf Camp, and then use the same well
18 bore to drill out of and do the horizontal lateral.

19 So the operators are not seeing that being in
20 close proximity -- some of these are even within a hundred
21 feet -- are a risk to either well bores. And a couple of
22 these are producing reserves from lower pays, and they're
23 going right by them within 100 feet.

24 The wells on 11, the well on 15 is a producer,
25 and Cimarex -- I'm sorry, 16. RSC has an interest in it.

1 They drilled within 100 feet of that well that is
2 producing reserves. The frac job went great. There was
3 no problem.

4 So my point is, the concerns of any operational
5 risks have been taken into account by the operators that
6 are doing the drilling also. And it's a common practice
7 in the area to drill near these existing well bores.

8 Q. And there haven't been any incidents of the
9 horizontal well bore damaging an existing well bore?

10 A. No, not that I'm aware of at all.

11 Q. And how long have you been in the oil and gas
12 business, Mr. Cate?

13 A. I graduated from UT in '79. So 30 years.

14 Q. And you've worked for other companies, have you
15 not?

16 A. Oh, yes. I've worked for the Gulf Oil, Texas
17 Oil and Gas, and 15 years at EOG Resources.

18 Q. And you've been involved in the drilling of any
19 number of wells?

20 A. Yes. COG was one of the top horizontal drillers
21 in New Mexico, as a matter of fact.

22 Q. Can you recall in any instance one of COG's or
23 the other company's well bores, either vertical or
24 horizontal, hitting another existing well bore?

25 A. No.

1 Q. Now, with respect to the Crow Flats No. 1, the
2 Three Span well, when a well is being drilled, are there
3 supposed to be certain steps taken to determine how the
4 well bore is deviated?

5 A. Yes.

6 Q. And is that material filed with the Division?

7 A. Yes, it is.

8 Q. And what is Exhibit C?

9 A. Well, that is not that. If you want to go to
10 that, that will be my last exhibit, actually, which would
11 be Exhibit F.

12 Q. Okay. I got them mixed up. Okay. Let's take a
13 step back then. Go to Exhibit C and discuss what that is.

14 A. Okay. Part of, I think, Three Span's objection
15 is drainage. But what I wanted to show here on Exhibit C,
16 this is the well log for the Crow Flat Unit No. 1, the
17 Three Span well.

18 The Wolf Camp pay is shown, the log to the left.
19 That's a density neutron log. And to the right, the log
20 is the resistivity profile, but -- and it's a lateral log
21 that was run also. And the scales are shown at the
22 bottom.

23 I did a volumetric calculation breaking down
24 each interval as is shown, its respective porosities, salt
25 water calculations. We've backed into the RW for arch

1 equation by water analysis in this area.

2 And I've got a weighted average volumetric
3 calculation that shows on 40 acres the recoverable oil in
4 place should be 93.8 thousand barrels. And that is based
5 on 31 feet of pay, average porosity is 10 percent. And
6 the dolomite average -- salt water saturation or weighted
7 average is 31 percent.

8 The Crow Flats decline -- and I'll show you that
9 on my next exhibit, but the Crow Flats decline has an EUR
10 of 67,000 barrels, roughly. There's 26,000 -- almost
11 27,000 barrels left to be recovered in this 40 acre unit.

12 Now, RSC and through farmouts in this leasehold,
13 owns the rights to develop those remaining barrels. Our
14 well will not hamper the Crow Flats well from continuing
15 to produce its reserves, but without the horizontal
16 laterals -- and this kind of answers the Examiner's
17 previous question that -- the vertical wells have been
18 found not to recover the reserves on the 40 acre spacing
19 units that they've been assigned. And entirely now the
20 play has gone to horizontal drilling because it does allow
21 for the greatest recovery of the oil reserves in these
22 units.

23 So I'm showing correlative waste would be
24 occurring if we are not allowed to drill and complete in
25 that 40 acre spacing unit.

1 Q. And again, this Exhibit C only applies to the
2 northeast quarter of the southwest quarter?

3 A. That's correct.

4 Q. Okay. You're not drilling a horizontal well to
5 recover 26,000 barrels?

6 A. Oh, no. There's three other spacing units with
7 that potential of recoverable oil in each.

8 Q. Okay. And what is Exhibit D?

9 A. Exhibit D does -- I referenced earlier. That is
10 the decline per where I arrived at the EUR for this well
11 bore at 67,000 thousand barrels. And it's got a 5 percent
12 decline; approximately four to five barrels of oil a day
13 is what it produces.

14 MR. EZEANYIM: Which well produces four to five
15 barrels a day?

16 THE WITNESS: The Three Span well is currently
17 producing four to five barrels of oil a day.

18 Q. What is Exhibit E, Mr. Cate?

19 A. Okay, Exhibit E is a structure map that shows
20 around Section 30 -- Basically, there is a structural
21 nosing feature, but it's not -- it's not distinctive.
22 It's common in this area.

23 But basically, the dip is to the west. And so
24 we're going down dip to the east. And it's important
25 because this gives here an indication of the direction, if

1 a well were to deviate, it typically will walk up dip. So
2 a well bore that might deviate on its own will tend to
3 walk to the west.

4 Q. And not toward your proposed well?

5 A. Not toward the north. And the following
6 exhibits will show that.

7 Q. Okay. Well, let's go on to Exhibit F which is
8 three separate pages. What does that show?

9 A. Well, the first one is the surveys that are
10 required to be run on every well bore in New Mexico that
11 was run when the Crow Flats No. 1, Three Span's well, was
12 originally drilled.

13 And the surveys are used -- Clearly, if there is
14 too high of a deviation problem, then they are required to
15 run a gyro, but in this case, the deviations were not
16 sufficient to warrant that.

17 The second page, then, I took -- and I got Black
18 Warrior to take these deviations and put them in their
19 program to tell us what a maximum deviation could be of
20 this well bore down to 6,200 feet, basically where our pay
21 is.

22 And so he calculates it -- I mean, they
23 calculate it all the way down through the Morrow. But if
24 you go back up to Line 21, which would be 6,245 feet, the
25 maximum deviation, if every deviation walked continually

1 to the north, the maximum it could have been at the Wolf
2 Camp is 100 feet.

3 The implication there is that our horizontal --
4 our 30 2-H well bore will still be at least 200 feet away
5 even if it did walk totally this one direction. But as
6 you would expect with the structure, the way that it runs,
7 it dips to the east.

8 This is public data from COG's well, the Donnor
9 3, which is back on the structure map, Exhibit E. This is
10 their pilot hole, their vertical hole in the Donnor 3,
11 which is the well just off sitting to the north of the
12 Three Span well.

13 And they did run a gyro, so they know exactly
14 where they are. Which after they finished the gyro, of
15 course, then they kick off and drill what they measured
16 with wild drilling tools.

17 And I had to blow this up, but what it shows is,
18 that it walked entirely in a west direction. Number one,
19 it -- if you go down to -- well, you can see where they
20 tied in at the bottom there, at the bottom left. It says
21 "Tied into the scientific gyro."

22 So, at 5,874 feet, if you come to the middle,
23 the vertical section, it only walked 40 feet total. Okay.
24 It actually ended up .1 foot south, not north. And then
25 it walked 40 feet west.

1 And if you follow that west coordinate all the
2 way up the column, it only went west. It did not deviate
3 to the east. And there when it did even do some north and
4 south in this column, it was only a half foot or a few
5 feet at a time. As matter of fact, early on it went south
6 -- very shallow, it went south first and then tended to
7 come back.

8 So this is an example of a well -- immediately
9 offset well that shows what you should really expect with
10 these deviations. Number one, they do not walk 100
11 percent in one direction to the north, and they don't walk
12 to the north, they actually go to the west.

13 So if the Three Span well did walk any direction
14 at all and deviate any direction at all, it should be just
15 to the west. And I believe that our well bore will be no
16 closer than 300 feet from their well bore.

17 Q. So, in their pre-hearing statement, Three Span
18 raised two issues, one of which is protecting their
19 correlative rights, but with respect to development of
20 this particular 40 acres, RSC owns those rights, does it
21 not?

22 A. Well, they do have correlative rights --

23 Q. In their well bore.

24 A. Which allows them to produce what they can from
25 their well bore. Our correlative rights are for any

1 further development, any additional wells on that 40 acre
2 unit, and also the rights that we've picked up in the
3 remaining units in this well bore.

4 Q. And the other issue is damage to the well bore.
5 But based upon what you just presented and testified
6 about, do you see any issue with respect to damage to
7 Three Span's well bore?

8 A. No. There's virtually very, very little chance
9 of that happening.

10 Q. Were Exhibits A through F prepared by you or
11 under your personal supervision?

12 A. Yes, they all were.

13 Q. In your opinion, is the granting of RSC's
14 application in the interest of conservation or prevention
15 of waste?

16 A. Yes, it is.

17 MR. BRUCE: Mr. Examiner, I'd move the admission
18 of Exhibits A through F.

19 Ms. MUNDS-DRY: No objection.

20 HEARING EXAMINER: A through F are admitted.

21 MR. BRUCE: No further questions.

22 HEARING EXAMINER: Ms. Munds-Dry?

23 CROSS-EXAMINATION

24 BY MS. MUNDS-DRY:

25 Q. Mr. Cate, I understand that you have a greater

1 familiarity of when the different wells were proposed to
2 Three Span and what the locations were according to
3 Mr. Smith?

4 A. Yes.

5 Q. I'd like to just back up, then, and talk about
6 that for a little bit. When you originally entered into
7 the farmout agreement, which I believe is Exhibit 4, what
8 locations for the 1-H -- what was the surface and bottom
9 hole location proposed for the 1-H, do you recall?

10 A. Yes. We -- I want to say this was probably back
11 even in October -- September or October of 2008, the
12 original south half south half, which is the 30 1-H, was
13 planned 330 from the south and east to a terminus of 330
14 feet from the south and west.

15 Q. And I understand that that location changed; is
16 that correct?

17 A. Yes, it did.

18 Q. And when was the new location proposed?

19 A. Very early January. I think, as matter of fact,
20 the stakes -- I see the C-102s are February '06. I
21 believe the stakings were early to mid January.

22 Q. And do you recall the change of locations, the
23 surface and bottom hole?

24 A. Yes.

25 Q. What was that?

1 A. You said what predicated or what changed?

2 Q. What was the change in location?

3 A. Oh, okay. We decided -- RSC decided that the
4 locations on the western side of Section 30 were less
5 intrusive, less expensive than the locations on the east
6 side of the section. There's a lot more terrain
7 differential.

8 And our estimates where, the locations could
9 have cost us, you know, hundreds of thousand of dollars
10 plus. And so we chose the locations for both these wells
11 over on the western side of the section primarily to save
12 money, but also less intrusion for the pads on the land.

13 Q. Now, let's turn to the Lucky Well No. 2-H. When
14 was that well first proposed to Three Span?

15 A. Officially, it would -- I don't know that we
16 ever officially proposed that. I mean, we did not propose
17 that well to them. We notified that we would be drilling
18 it with -- Okay. Jim Bruce gave me a -- Okay, we had,
19 actually, proposed this well to them on 12/17/08.

20 I thought, like Mr. Smith, that we already had
21 the farmout before that, but -- Okay. I think I remember
22 now. Title wise, we had taken a farmout from Three Span,
23 and the other -- his other partners in the east half of
24 the east half of the section earlier than this, earlier
25 than December.

1 I believe that we found out then that Three Span
2 had a small interest -- Three Span and their partners had
3 a 3 percent interest that we had not leased in the same
4 tract as his well bore, which we then made this proposal,
5 which we did propose at the 2,310 feet from the south and
6 100 feet from the west, on 12/17/08. And they
7 subsequently assigned us their interests. They did not
8 want to participate. And -- Yes.

9 Q. Has the location of the Lucky Wolf 2-H, has that
10 location remained the same since you first proposed it to
11 Three Span?

12 A. I believe so. I believe this was the only
13 proposal that we gave them on the 2-H. Now, we did give
14 them the proposal on the 1-H. Our plans did change to
15 drill the 2-H first.

16 Q. Okay. Thank you. Let's turn to your Exhibit A,
17 if you would please, Mr. Cate.

18 A. Okay.

19 Q. You testified that in your prior experience, you
20 drilled horizontal wells in the past before owning RSC?

21 A. Yes.

22 Q. Did I understand that correctly?

23 A. While I was under the employ of EOG Resources,
24 primarily.

25 Q. Okay. How many horizontal wells does RSC

1 operate in New Mexico?

2 A. RSC does not operate any wells in New Mexico at
3 this point.

4 Q. You don't operate any wells, any vertical or
5 horizontal wells in New Mexico?

6 A. That's correct.

7 Q. Is RSC a duly qualified operator before the OCD?

8 A. Yes, it is.

9 Q. Okay. So this would be the first well that you
10 would be the operator of in New Mexico?

11 A. That is correct. Now, RSC owns various working
12 interests in probably at least 20 wells in southeast New
13 Mexico of which four of them are in this horizontal play
14 right here.

15 Q. Those are none-operating interests?

16 A. They are none-operating interests.

17 Q. As operator, then, is this the first time you've
18 used Black Viper as your directional drilling contractor?

19 A. Yes, it is.

20 Q. And you testified that in your experience that
21 with the technology the way it is today with horizontal
22 wells, that there's at most a five foot deviation?

23 A. No, that's not exactly what I said. If you do
24 not control the deviation, it could be greater than five
25 feet. My point was that the technology exists to stay

1 within a five foot window if you so desire.

2 Q. I see. On Exhibit B, Mr. Cate, you show that at
3 least on this exhibit -- I believe there are eight
4 horizontal wells that are reflected on Exhibit B; is that
5 correct?

6 A. Yes. Nine, actually, including our Lucky Boy, I
7 believe.

8 Q. Okay. Fair enough. And how many of these
9 horizontal wells has RSC?

10 A. RSC has participated with Cimerex in three wells
11 in Section 16.

12 Q. I understand that, Mr. Cate, but how many of
13 these well bores has RSC drilled?

14 A. I already answered that question. I did not --
15 RSC did not drill any of them.

16 Q. Okay. And you showed here that there were many
17 vertical wells, and I believe it's reflected as green dots
18 on the map here that are next to these yellow sticks?

19 A. Yes.

20 Q. In each of these instances, are these vertical
21 wells owned by the same operator, or is it a different
22 operator?

23 A. Well, in Section 16, that green well is owned by
24 the same operator, Cimarex, who drilled three horizontal
25 laterals.

1 In Section 15, I believe that well is operated
2 by -- the vertical well is operate by Devon, even though
3 the APD is Cimarex. And Section 19, back over on the
4 south, that will be COG operating.

5 And the well I referenced earlier in the north
6 half south half, I believe that the well they're going to
7 offset that produced out of the Wolf Camp is actually
8 plugged at this time.

9 Over in section -- on the east side of the map
10 in Section 19, RSC owns an interest in that horizontal
11 lateral that St. Mary's has recently drilled, and they
12 drilled right by an old EOG well called the Savors. That
13 well is actually a 10-A well also. The pipe was not set.
14 Those I know of specifically.

15 Q. So are there no examples on here of wells that
16 are operated -- vertical wells operated by someone
17 different than operates the horizontal wells?

18 A. I cannot be sure. But probably not.

19 Q. Mr. Cate, if you please turn to Exhibit D, you
20 had testified that Crow Flats No. 1 made four to five
21 barrels a day. What was your source for that data?

22 A. Well, I've got several sources. I used drilling
23 info. But I've also looked at the production listed on
24 the PI also. But it's public data that's gathered by
25 several different, you know, data sources.

1 Q. When you were discussing Exhibit F, you were
2 discussing different factors that effect deviation?

3 A. Yes.

4 Q. Are the factors in a vertical well that effect
5 deviations different than the factors that effect
6 deviation in a horizontal well, is that a fair statement?

7 A. Absolutely, sure.

8 Q. And according to Exhibit F, you believe that the
9 max at the vertical well for the Crow Flats, you believe
10 the max that it may have lost is about 100 feet?

11 A. That is what the calculations show, yes.

12 Q. And I'm not sure I understood you correctly, so
13 I'm generally asking to make sure I understand. So let me
14 clarify. Did you say that the max that the Lucky Wolf 2-H
15 would go when it crosses the northeast quarter of the
16 southwest quarter is 200 feet away?

17 A. No, actually, we will be between 300 and 330
18 feet away from Three Span at its 1,980 from the south and
19 west surface locations. And then my testimony was, if the
20 well bore -- the Three Span well bore, based on these
21 surveys -- had done the improbable and walked entirely to
22 the maximum displacement to the north, which is also
23 improbable, then our well bore would still -- the
24 horizontal lateral would still be at least 200 feet away.

25 Q. Okay. Thank you for clarifying that.

1 MS. MUNDS-DRY: Those are all the questions I
2 have for Mr. Cate.

3 HEARING EXAMINER: Mr. Hall?

4 MR. HALL: I have no questions.

5 HEARING EXAMINER: Okay, I think I understand
6 the basic situation but I want to be sure it's on the
7 record. So for that purpose, the Three Span well is
8 called the Lucky Wolf No. 1, is that the name of it?

9 THE WITNESS: No, sir, it's Crow Flats --

10 HEARING EXAMINER: Oh, I know. No, Lucky Wolf
11 is the proposed well.

12 THE WITNESS: It's RSC's horizontal lateral.

13 HEARING EXAMINER: And the Three Span is Crow
14 Flats No. 1?

15 THE WITNESS: Fed. Com. Unit No. 1, I believe,
16 is the proper name.

17 MR. BRUCE: If you look at Exhibit A,
18 Mr. Examiner, the first page of it, the C-102.

19 HEARING EXAMINER: Okay, yeah, that's the C-102
20 for the Lucky Wolf.

21 MR. BRUCE: Yes, but I've highlighted it in
22 green and then down below.

23 HEARING EXAMINER: Okay, so that's the correct
24 name, then, the Three Span Crow Flats Fed. Com. Unit
25 No. 1, that's the correct name of the Three Span?

1 THE WITNESS: Yes, I believe it is.

2 HEARING EXAMINER: And the proposed well is the
3 Lucky Wolf 30 Fed. Com. No. 2-H?

4 THE WITNESS: Yes.

5 HEARING EXAMINER: And that's the only well that
6 RSC proposes to drill on this unit, correct?

7 THE WITNESS: That's correct.

8 HEARING EXAMINER: And RSC does not have an
9 existing well on this unit?

10 THE WITNESS: That's correct.

11 HEARING EXAMINER: Okay. Both the Three Span
12 well and the proposed well will be completed in the Wolf
13 Camp, correct?

14 THE WITNESS: That's correct.

15 HEARING EXAMINER: And this is an oil zone?

16 THE WITNESS: Yes, it is.

17 HEARING EXAMINER: Okay. Do you have a
18 projection on what you expect the rate of production to be
19 in the proposed well?

20 THE WITNESS: The rate?

21 HEARING EXAMINER: Yeah.

22 THE WITNESS: Of production through the entire
23 lateral all four units?

24 HEARING EXAMINER: I guess that's what it would
25 have to be.

1 THE WITNESS: Yes. Yes, probably 300 barrels
2 per day, I believe, would be a good first month's
3 estimate.

4 HEARING EXAMINER: Yeah. What is the depth
5 bracket allowable on this?

6 THE WITNESS: I believe 104 to 130 at the 6,1400.
7 feet. I believe it's --

8 HEARING EXAMINER: Now, is that for a 40 acre
9 unit?

10 THE WITNESS: Yes, per 40. So four times that
11 would be --

12 HEARING EXAMINER: So it's going to be 400 and
13 something.

14 THE WITNESS: Yeah. I can't remember
15 specifically, but it's over 400 barrels per day.

16 HEARING EXAMINER: And the Three Span well is
17 only producing like four or five barrels a day?

18 THE WITNESS: Yes. Four to five barrels, yes.

19 HEARING EXAMINER: So based on that, there
20 presumably would not -- This unit would presumably not be
21 exceeding its allowable? Even if your 300 barrels day
22 projection proves to be accurate, you would have to do
23 considerably better than that before you would have a
24 problem exceeding the allowable?

25 THE WITNESS: That's correct. I know of only

1 two instances where the wells have exceeded the
2 allowables, and they don't do it for very long, either,
3 maybe a month or two, and then -- you know, these do
4 hyperbolic decline, so I don't anticipate that there would
5 be an allowable problem.

6 HEARING EXAMINER: You would understand,
7 however, that Three Span production from the Three Span
8 well would presumably have to be included in computing the
9 allowable production?

10 THE WITNESS: Absolutely. And can be
11 grandfathered. I mean, their five barrels a day can --
12 We're not trying to impede their right to produce their
13 production.

14 HEARING EXAMINER: Okay. I believe that's all
15 my questions. Mr. Ezeanyim?

16 MR. EZEANYIM: You asked good questions. There
17 were questions I wanted to ask you but you've done them.
18 But let me ask you some of these questions. What's the
19 flow? Do you have an idea, can you give me an idea of
20 this formation in this area, do you have an idea how --
21 what it is?

22 THE WITNESS: Yes, I actually do. I did not
23 present --

24 MR. EZEANYIM: The average, you know, what you
25 think it is, the average and the --

1 THE WITNESS: Yes. I would say based on my
2 experience, probably .1 millidarcy. There are several
3 DSTs -- If I go back to our land plat, which was
4 Exhibit B, the well in Section 15, which is in the middle
5 of the section, their DS-2 -- and I've actually got that
6 if you would like me to make it of record, but I can tell
7 you what the -- The flow -- this had approximately 60 feet
8 of porosity of that same 4 percent cut off.

9 And I could find that if you would like and I
10 can read it to you, but the DSTs have flow pressures of
11 approximately 40 pounds, and recoveries might be 100 feet
12 of total fluid at the best.

13 So very, very limited permeability. And that's
14 reflected on the Three Span decline curve. But after an
15 acid job, it produced approximately 15 to 20 barrels a
16 day; but within six months, it's down to ten barrels a day
17 for a 50 foot unit, 31 feet of net pay.

18 So, I would say the permeabilities are very low,
19 .1 to .5 millidarcies, somewhere in that range. Very
20 tight.

21 MR. EZEANYIM: Okay. How do you come up with
22 the recovery factor of 20 percent?

23 THE WITNESS: Twenty percent is -- At EOG, I was
24 primarily their reservoir engineer and we worked with
25 Degoire and McNaughten. It was an independent firm. And

1 what they had was a very interesting correlation between
2 the oil gravity and the recovery factor.

3 And it makes sense, because the higher the oil
4 gravity, the thinner the fluid, the better it moves
5 through the reservoir. And the gravity of this crude is a
6 42 gravity. Their correlation was basically that you
7 could divide the gravity by 2 and that is your recovery
8 factor.

9 MR. EZEANYIM: Is that a rule of thumb?

10 THE WITNESS: It is a rule of thumb, but it also
11 makes sense. And that was from empirical -- I mean, they
12 -- you know, evaluated tens of thousands of wells and that
13 was what -- But one field in particular that I managed
14 called the Red Hills Field, it also had 42 degree gravity
15 crude.

16 We did a horizontal program in that field, and
17 it also had .1 to .5 millidarcy permeability. Another
18 reason that the horizontal program was successful there.
19 And the recovery factors were also estimated to be 20
20 percent.

21 MR. EZEANYIM: The recovery factor here is very
22 conservative, because for such a tight formation, you
23 might not get up to that. You might -- I don't know. But
24 I think if your rule of thumb works, I wanted to find out
25 how you come up with that. Okay.

1 I know opposing counsel asked you about this, so
2 if we look at Exhibit F, given the deviation of 100 feet,
3 you are at least 230 feet from the Crow Flats No. 1 in
4 passing through the northeast southwest quarter?

5 THE WITNESS: No, Mr. Examiner, this -- this is
6 the COG well, this data?

7 MR. EZEANYIM: Oh, okay. Yeah. On that one,
8 COG was the -- it's called the Donnor No. 3?

9 THE WITNESS: Yes, the Donnor No. 3, and it's a
10 direct offset to the Three Span well. But COG just
11 drilled this, I believe, December or January.

12 MR. EZEANYIM: Okay. What was the location of
13 that well, is it in the same section?

14 THE WITNESS: The vertical well is
15 approximately -- I think their surface location is 1,980
16 from the east line, and I think 1,880 from the north line.
17 It was slightly off the center.

18 MR. BRUCE: Mr. Examiner, if you'd look at
19 Exhibit B, over on the left side, just above the red well
20 unit?

21 MR. EZEANYIM: Yeah. Okay.

22 MR. BRUCE: The COG well is the one immediately
23 to the north and crosses through three 40 acre well units.
24 And that's where the well that Exhibit F is taken from.

25 EZEANYIM: Okay, I see. And I think you decided

1 that this may be the fastest way to where RSC is drilling?
 2 I know you said in your testimony that EOG or something
 3 like that was into it, but this is the only horizontal
 4 well that RSC is going to drill, right?

5 THE WITNESS: Yes, that is correct. Now, my
 6 plan is to employ a consulting engineering firm. Probably
 7 New Tech. I've already had discussions with them. And
 8 they have extensive experience in horizontals.

9 MR. Ezeanyim: Okay. That's all I have.

10 HEARING EXAMINER: Mr. Bruce, any follow up?

11 REDIRECT EXAMINATION

12 BY MR. BRUCE:

13 Q. Really, just one follow-up question, and this
 14 was in the pooling proceeding a couple weeks ago,
 15 Mr. Cate. COG did have a separate APD in part of this
 16 well unit, did it not?

17 A. That's correct.

18 Q. And COG has agreed to withdraw that APD?

19 A. That's correct.

20 Q. So as the Examiners look at the on-guard system,
 21 they might see a COG APD covering the north half southeast
 22 quarter of the section, but that APD is going away?

23 A. That is right. I think that was the Donnor
 24 No. 2, and COG has agreed to withdraw that APD.

25 Q. And work together with respect to the drilling

1 of RSC's well?

2 A. Yes. They've offered to aid and help -- they've
3 joined in -- They've indicated they will join in the
4 drilling of this well, as well as several others. We've
5 got J. Cleo Thompson, EOC, and several other industry
6 partners have signed our JOAs, as matter of fact.

7 HEARING EXAMINER: Is that all, Mr. Bruce?

8 MR. BRUCE: Yes.

9 HEARING EXAMINER: Okay. I had one other
10 question that I forgot to ask. It looks like from the way
11 the plat is drawn that the -- Let me look at the actual
12 footages. Yeah, there's 100 from the west line. And you
13 don't have the coordinates at the point of penetration.
14 Is this going to be an nonstandard location for Lucky Wolf
15 30 Fed. Com. No. 2-H?

16 THE WITNESS: It is nonstandard for the vertical
17 portion of the well bore. However, by the time the curve
18 is built and landed, it will not -- it will not land until
19 it does encounter the producing area 330 feet from the
20 line.

21 HEARING EXAMINER: But it will not reach the top
22 of the Wolf Camp formation at a point 330 from the --

23 THE WITNESS: That's right. And that's the
24 design. Why we actually moved 200 feet is to allow the
25 building of the curve. I felt it was a waste. You know,

1 start at 330, and you're 600 or 700 feet by the time you
2 actually get into the pay.

3 HEARING EXAMINER: Very good. Thank you.
4 That's all I have. Anything further from anybody?

5 MR. BRUCE: Only thing I was going to point out,
6 you asked about the allowable. It is 142 barrels of a day
7 for a 40 acre well unit.

8 HEARING EXAMINER: Okay. Very good. Thank you.
9 You may stand down. And does that conclude your
10 presentation, Mr. Bruce?

11 MR. BRUCE: Yes, sir.

12 HEARING EXAMINER: Ms. Munds-Dry?

13 MS. MUNDS-DRY: Could I ask for a five minute
14 pregnancy-related break?

15 (Note: A break was taken)

16 HEARING EXAMINER: Ms. Munds-Dry, you may call
17 your first and only witness.

18 EARL BALDRIDGE,
19 the witness herein, after first being duly sworn
20 upon his oath, was examined and testified as follows:

21 DIRECT EXAMINATION

22 BY MS. MUNDS-DRY:

23 Q. Would you please state your full name for the
24 record?

25 A. Edgar Earl Baldridge III.

1 Q. Mr. Baldridge, where do you reside?

2 A. I reside in Midland, TX.

3 Q. And by whom are you employed?

4 A. I'm employed by Three Span Oil and Gas, Inc.

5 Q. And what is your position with Three Span?

6 A. I am the president and operations manager.

7 Q. Have you previously testified before the
8 Division?

9 A. No, I have not.

10 Q. Would you review your education and work history
11 for the Examiners, please?

12 A. I have a Bachelor's of Science from the
13 University of Wyoming, 1988. I hired on with Texaco
14 Exploration as an operations engineer in December '88 and
15 became a drilling engineer in January 1992.

16 I left Three Span and became a consultant in
17 October 1992, primarily a horizontal drilling engineer
18 working with various independents in the Permian Basin in
19 New Mexico.

20 In January of '94, I began internationally
21 consulting and spent most of my time in southeast Asia and
22 Russia. I resumed working with Three Span Oil and Gas in
23 1998 and I've been working with them ever since.

24 Q. Are you familiar with the application that's
25 been filed by RSC in this case?

1 A. Yes, I am.

2 Q. And just to make sure I understand, you're a
3 petroleum engineer by trade?

4 A. Yes, ma'am.

5 MS. MUNDS-DRY: Mr. Examiner, we would tender
6 Mr. Baldridge as an expert in petroleum engineering.

7 HEARING EXAMINER: Are there any objections?

8 MR. BRUCE: No objection.

9 HEARING EXAMINER: Did you wish to ask him some
10 questions, Mr. Ezeanyim?

11 MR. EZEANYIM: Yes. Mr. Baldridge, are you a
12 registered petroleum engineer?

13 MR. BALDRIDGE: No, sir, I am no.

14 MR. EZEANYIM: Were you taught by (inintelligible
15 name) in Wyoming?

16 MR. BALDRIDGE: Yes, I --

17 MR. EZEANYIM: Did you did listen?

18 MR. BALDRIDGE: I'm sure I did.

19 MR. EZEANYIM: Okay, yeah. Because if you were
20 taught by him, then you are qualified.

21 HEARING EXAMINER: He is so qualified.

22 MS. MUNDS-DRY: Thank you, Mr. Examiner.

23 Q. Mr. Baldridge, would you please state why Three
24 Span objects to this application?

25 A. Primarily, we object to the application due to

1 the potential risk of well bore damage to our Crow Flats
2 Fed. Com. Unit No. 1. Also, we believe the well harms our
3 correlative rights.

4 Q. How did you first become aware of RSC's desire
5 to drill a well in the south half this section?

6 A. RSC, or Peregrine Production, proposed the Lucky
7 Wolf Fed. Com. No. 1-H in early 2008. I don't remember
8 the date exactly. Later they proposed the Lucky Wolf Fed.
9 Com. 2-H in January 2009.

10 Q. And what was RSC's original proposal to Three
11 Span?

12 A. RSC and/or Peregrine proposed the Lucky Wolf
13 Fed. Com. No. 1 in the south half of the south half of
14 Section 30. The working interest owners of Crow Flats
15 Fed. were offered the opportunity to pool their -- held by
16 HPPA acreage in the east half of the southeast of Section
17 30 and participate in the farmout -- farmout that acreage
18 under the explicit threat of pooling.

19 Q. Mr. Baldridge, did you enter into an agreement
20 with RSC?

21 A. We entered into a farmout of the east half of
22 the southeast and the northeast of the northeast on
23 December 5, 2008. And that was later modified, I believe,
24 twice, to include rights in the southeast quarter of
25 Section 30.

1 Q. What is Three Span's interest in this section?

2 A. Three Span Oil and Gas is the operator of Crow
3 Flats Fed. Com. Unit No. 1. That's the Wolf Camp oil
4 producer. It's 1,980 from west, and 1,980 from south.

5 Three Span Oil and Gas is also the operator of
6 Crow Flats A Federal No. 1, which is located 1,980 from
7 the north, and 760 from the east. It's also a Wolf Camp
8 producer.

9 Q. Now, the Three Span well that we're interested
10 in and concerned about today is the Crow Flats No. 1?

11 A. That's correct. It's Crow Flats Fed. Com. Unit
12 No. 1.

13 Q. Okay. How far away is RSC's proposed Lucky Wolf
14 2-H well from Three Span's Crow Flats No. 1? And I'll ask
15 you to refer to Exhibit A.

16 A. Okay. The proposed east/west horizontal that is
17 the well in question is 330 feet from the Crow Flats Fed.
18 Com. unit's surface location at its nearest point. The
19 proposed east/west horizontal is potentially 227 feet from
20 the Crow Flats Fed. Com. unit's subsurface location at its
21 nearest point.

22 Q. Now, explain to me, Mr. Baldridge, the source of
23 the data and review the numbers in the inclination report,
24 if you would, for the Examiners.

25 A. This is a similar inclination report that was

1 proposed earlier by RSC. We did not have the data that
2 was submitted to the OCD. Subsequently, I used the wire
3 line survey data points that were in the mud log of the
4 Eagle well. The data points are fairly similar to what
5 were submitted to the OCD. And that puts us out anywhere
6 from 102 to 107 feet at the Wolf Camp interval.

7 Q. What is your concern in terms of the proximity
8 between the Crow Flats No. 1 well and the proposed Lucky
9 Wolf No. 2-H?

10 A. Again, given the proximity, the risk of well
11 bore damage. And also, potential drainage.

12 Q. Before we turn to the next exhibit, in your
13 opinion, could you expand on how might the drilling of the
14 proposed horizontal well cause damage to Three Span's Crow
15 Flats well?

16 A. There are several operations that occur during
17 drilling and completion. That potential does exist for a
18 collision with the well itself. Also during drilling,
19 they're drilling in an overbalanced condition, and the
20 drained and pressure-depleted reservoir risks significant
21 loss of drilling which includes the formation and
22 potentially sweeping the low sink surrounding the Crow
23 Flats Fed. Com. Unit No. 1.

24 Casing and cement. Again, the significantly
25 overbalanced condition created during the cementing of the

1 production casing and/or liner in a drained and
2 pressure-depleted reservoir causes a significant loss of
3 cement in the formation and potentially sweeping the low
4 pressure sink surrounding Crow Flats No. 1.

5 And last but not least, the completion,
6 completion techniques typical of horizontal completion in
7 Section 30. The Donnor Fed. No. 1, I believe it's COG
8 operating Donnor 30 Fed. Com. 3. That's fairly typical of
9 completions we've seen in the Wolf Camp in this area.

10 It involves a large multistage fracture. COG's
11 well itself, which is in the south half of the north half
12 of Section 30, was completed in seven stages using
13 approximately 21,500 gallons of 15 percent acid, and
14 22,201 barrels of -- it's called silver stem, which is
15 cross-linked frac fluid. That's a Halliburton product.

16 MR. EZEANYIM: Where are you reading that?

17 THE WITNESS: I am reading this off of
18 Exhibit B.

19 MS. MUNDS-DRY: Mr. Ezeanyim, I believe -- We'll
20 identify this in a moment. Exhibit B was a document filed
21 by COG.

22 Q. Mr. Baldridge, is this a summary notice filed by
23 COG?

24 A. Yes.

25 Q. And what does this identify in the document?

1 A. This is a subsequent report of the completion on
2 that horizontal that's north of our -- it's in the south
3 half of the north half.

4 Q. And this shows the numbers that you've been
5 discussing?

6 A. Right, exactly. It's seven stages. They're not
7 showing sand, although there will be sand induced in this
8 frac fluid, we assume. But the volumes are large. We
9 just believe such a large fracture stimulation on, again,
10 a drained and pressure-depleted reservoir, there are
11 potential risks of damaging the Crow Flats Fed. Com.
12 No. 1, and potentially depleting it.

13 Q. Mr. Baldridge, let's turn to what has been
14 marked as Three Span Exhibit B, and let's discuss the
15 first page of Exhibit B for the Examiners, and then we'll
16 go through the other documents in the packet here.

17 A. Similar to the analysis for RSC, Robert
18 Paterson, an engineer in our office under my supervision,
19 prepared an estimate of what the drainage currently is in
20 our completed intervals in the Crow Flats bed.

21 Again, if you move to the second page, the
22 calculations are the same. The blacked out area is to
23 give us a radius. We used a 4 percent cross plot porosity
24 cut off.

25 Saturation of water using RSC's equations

1 assumes .05. BOI was calculated and estimated at 1.24.
2 Based on the current cumulative production of the Crow
3 Flats Fed. Com No. 1, which was 48,228 barrels, that
4 calculates to a 57 acre radius -- 57 acre drainage, which
5 is a radius of 888 feet ultimate cum. That radius would
6 extend out to be 1,278 feet in those completed intervals.

7 And all the backup documentation follows behind
8 it, including the logs, the spreadsheet analysis of the
9 porosity. Then, of course, the top page was just a
10 graphical representation of the drainage radius.

11 Q. Let's go through this now that you've shown us
12 the calculations that you used for this drainage map here.

13 Walk us through this map, if you would,
14 Mr. Baldridge. Where is Crow Flats No. 1 located on this?

15 A. Crow flats Fed. Com. Unit No. 1 is in the center
16 of the radius, which is that 1,980 to 1,980 south and the
17 west line. And then we have the Lucky -- the proposed
18 horizontal is just to the north of it. And their area of
19 interest -- and it runs through that area of current
20 drainage, and of course, they turn it back slightly to the
21 south to the terminus.

22 Q. And it shows two circles here around the Crow
23 Flats, one is sort of a gray shaded color. What does that
24 represent?

25 A. The smaller of the two circles represents that

1 calculated radius of drainage based on cumulative
2 production; and the large circle, again, is the calculated
3 radius of drainage for cumulative production of our
4 current well.

5 Q. Okay, thank you. And you indicated that the
6 additional documents in here are the backup documentation
7 that you used for the calculations.

8 If you could just quickly identify each of these
9 documents so that when the examiners are reviewing the
10 record, they can have some idea of what they're looking at
11 here. You have the summary, here, I believe, and that's
12 what you just discussed?

13 A. That's correct.

14 Q. And what is the next document?

15 A. The next document is the completion report that
16 was submitted to the BLM by Schlumberger Resources. This
17 is the current completion of the Crow Flats Fed. Com. Unit
18 No. 1, and it shows the intervals that are perforated was
19 6,429 and 6,472, 15 perforations. Those were actually
20 listed on the following documentation.

21 Q. Okay. What is the next document?

22 A. This is the compensated neutron-formation
23 density log for the same well that was performed by Eagle
24 Oil and Gas when the well was drilled.

25 And from this, the density -- the porosity for

1 density and neutron were pulled off of these logs for the
2 calculations. The log following that is the lateral log,
3 which gives us the resistivity data, water saturation
4 data.

5 Q. And the next document?

6 A. That is just a simple Excel analysis of that
7 data with the course, the depth of the areas highlighted
8 in yellow with the current completion intervals in Crow
9 Flats Fed. Com. Unit No. 1. And we're using a 4 percent
10 porosity cut off.

11 You can see the depths, the neutron porosity,
12 density porosity, cross-plot porosity, your total
13 resistivity and calculated SW, your bulk volume water.
14 And of course also, based on cross plotting, gives you an
15 idea of the matrix.

16 And their calculations are actually shown to the
17 right of the page. So it's those based on PHI in the
18 first area, and the second area, saturation of water, 30
19 percent, BLI ultimate recovery, oil, gas, BOE. It will
20 give your -- That's for ultimate recovery. The lower box
21 shows the current recovery.

22 Q. And the next document?

23 A. That's the cross-plot calculation.

24 Q. And then you have a graph here, the next
25 document?

1 A. That's the cross plot. It's a graphical
2 representation of cross-plot porosity and our cutoffs at 4
3 percent.

4 Q. Okay. Next document?

5 A. Again, this is where we're getting to volumetric
6 reservoir, volumetric tracker.

7 Q. And the next document I have here, which is the
8 third to the last, shows the rate versus time frame?

9 A. That's rate versus time. It's calculated out to
10 cum production.

11 Q. And then the final two documents here?

12 A. That's just to give an idea of where the well
13 is.

14 Q. Okay. Thank you, Mr. Baldridge. In your
15 opinion, will RSC's proposed well impede on Three Span's
16 correlative rights and its well bore?

17 A. We do believe it will.

18 Q. And in your opinion after conducting this
19 engineering study, is more than one well necessary in this
20 spacing unit?

21 A. Our drainage calculations clearly indicate the
22 Crow Flats Fed. adequately drains the 40 acre unit.

23 Q. And after reviewing the reservoir in this area,
24 what are your engineering conclusion?

25 A. Again, we believe that the Crow Flats Fed. Com.

1 Unit Well No. 1 adequately drains the 40 acre unit.

2 Q. And what are your concerns in terms of the
3 proximity of the horizontal well to the Crow Flats well?

4 A. We're very concerned about potential damage
5 during drilling and completion to our well bore and loss
6 of correlative rights.

7 Q. In your opinion, will the granting of RSC's
8 application be in the best interest of conservation, the
9 prevention of waste, and the protection of correlative
10 rights?

11 A. No, it would not.

12 Q. Were Exhibits A, B, and C prepared by you or
13 compiled under your direct supervision?

14 A. Yes, they were.

15 MS. MUNDS-DRY: Mr. Brooks, we move the
16 admission into evidence Three Span's Exhibits A, B, and C.

17 MR. BRUCE: No objection.

18 HEARING EXAMINER: A, B, and C are admitted.

19 MS. MUNDS-DRY: And that concludes my direct
20 examination of Mr. Baldridge.

21 HEARING EXAMINER: Mr. Bruce?

22 CROSS-EXAMINATION

23 BY MR. BRUCE:

24 Q. Mr. Baldridge, with respect to the Crow Flats
25 Fed. Com. No. 1 well, Three Span's well, that was acquired

1 under a well-bore only assignment, correct?

2 A. I am not a land mineral lawyer, but I do believe
3 that's correct.

4 Q. And the farmout you gave as amended to Peregrine
5 Production covers your interests, your acreage over on the
6 east half of the east half, correct?

7 A. That's correct.

8 Q. Or at least some of it. And also in the
9 northeast quarter of the southwest quarter?

10 A. That is correct.

11 Q. Did you receive cash consideration for that
12 farmout?

13 A. We did receive cash consideration in that
14 farmout.

15 Q. How long has Three Span owned its interest in
16 Section 30?

17 A. Approximately ten years.

18 Q. During that time, has Three Span ever proposed a
19 Wolf Camp test to any interest owners in Section 30?

20 A. No, we have not.

21 Q. Have you participated in any horizontal wells in
22 this township or in any other township in which Three Span
23 owns a working interest?

24 A. Can I ask that the question be a little more
25 defined?

1 Q. Has Three Span Oil and Gas participated as a
2 working interest owner in any horizontal well in southeast
3 New Mexico?

4 A. Not in southeast New Mexico, no.

5 Q. I'm look at -- I think this is part of
6 Exhibit C.

7 A. Yes, sir.

8 Q. Mr. Baldridge, are you saying your log analysis
9 shows only 15 feet of net pay in the Wolf Camp, in your
10 well?

11 A. In completed intervals in the Crow Flats Fed.
12 Com. Unit No. 1 using a 4 percent porosity cutoff, that is
13 what we believe.

14 Q. Okay. Now, do you recall what Mr. Cate
15 testified with respect to the net pay?

16 A. Vaguely.

17 Q. Just roughly, if you could --

18 A. It was slightly larger.

19 Q. If there is more net pay, is the drainage area
20 smaller?

21 A. Yes, sir, the calculations would be smaller.

22 Q. Now, one of the reasons Three Span is opposing
23 this, you believe it will harm Three Span's correlative
24 rights; is that correct?

25 A. Yes, sir.

1 Q. Could you define correlative rights for me?

2 MS. MUNDS-DRY: Objection. Mr. Baldrige is not
3 a lawyer.

4 HEARING EXAMINER: Well, he's given an opinion
5 about correlative rights so he must have some idea of a
6 definition that he's relying on. I was going to ask him
7 if he was familiar with it the way it's defined in the New
8 Mexico Oil and Gas Act.

9 I will overrule the objection because I assume
10 the question refers to his opinion and what definition
11 he's using.

12 MR. BRUCE: And I would just ask what his
13 practical definition of it is or his understanding of
14 correlative rights under the New Mexico statutes.

15 HEARING EXAMINER: Okay. I'll overrule the
16 objection.

17 A. My understanding of correlative rights in
18 New Mexico is the right -- again, I have -- I'm not a
19 lawyer nor a landman, my knowledge of it is very thin, but
20 it's my right to produce reserves in this well bore.
21 Period. I mean, that's just more or less my understanding
22 of it.

23 Q. Now, spacing out here for the Wolf Camp
24 formation is 40 acres, do you agree?

25 A. Yes, sir.

1 Q. In looking at your drainage area map, hadn't
2 Three Span already -- based on your calculations or the
3 calculations of your fellow engineer in your office,
4 already drained all of the reserves under the northeast
5 quarter of the southwest quarter of Section 30?

6 A. That would be the calculation in the completed
7 intervals, yes.

8 Q. You're not asserting it, but it shows based on
9 your calculated estimated ultimate here showing that it
10 would extend into almost every adjoining 40 acre tract,
11 correct?

12 A. That's what this would indicate, yes.

13 Q. Okay. Do you think Three Span's entitled to
14 produce other people's reserves?

15 MS. MUNDS-DRY: Same objection, Mr. Brooks.

16 HEARING EXAMINER: Yeah. I will overrule the
17 objection for the same reason, that he's giving opinions,
18 so he's entitled to give a basis for his opinion.

19 A. Rephrase the question, we're --

20 Q. In your opinion, is Three Span entitled to
21 produce reserves from other tracts in which Three Span
22 does not own an interest?

23 A. That's a legal question that I just don't
24 understand the basis to -- Based on proration in New
25 Mexico, you're allowed to produce the reserves within that

1 unit -- or contributed to the well in -- on the proration
2 units.

3 Q. Let me ask you this -- Okay, Mr. Baldridge, I
4 won't harass you anymore on that. But looking at your
5 map, would you say if a well is drilled to the south, in
6 the south half of the south half, your map shows that you
7 would be draining reserves from the south half of the
8 south half, does it not?

9 A. That's what it would indicate, yes, sir.

10 Q. Does that give you the right to object to
11 drilling a well in the south half of the south half?

12 A. Not to my knowledge, no, sir.

13 Q. Do you agree that this is a tight reservoir?

14 A. Yes, sir, this is type matrix rock.

15 Q. Do you think this drainage area accurately
16 reflects the area of drainage in such a tight reservoir?

17 A. The calculations and resulting graphical
18 representation takes into account quite a few assumptions,
19 i.e., homogeneity, non-fracturing.

20 Many tight reservoirs have secondary
21 permeability. It would not exactly match this graphical
22 representation, it would be more odd shaped; different
23 higher perm intervals would be larger, lower perm
24 intervals would be smaller.

25 Q. In your opinion, does the resistivity log, is

1 that a good indicator of permeability?

2 A. Resistivity log can indicate potential existence
3 of near well permeability, yes.

4 Q. And does this log show a significant section
5 starting just about 6,400 feet and going down to just
6 about 6,500 feet?

7 A. There does appear to be invasion on the log. As
8 to whether that indicates secondary or primary
9 permeability, I'm unable to tell.

10 Q. Okay, but that indicates the reservoir is a
11 larger volume than you are projecting on your drainage
12 calculations?

13 A. It is our opinion that those areas would be
14 under the cross-plot porosity cutoff.

15 Q. So you're saying that the intervals that you did
16 not perforate, you're not draining those?

17 A. Yes, sir, that would be my indication.

18 Q. So those could still be tested by another
19 operator?

20 A. Yes, sir.

21 MR. BRUCE: I think that's all I have,
22 Mr. Examiner.

23 HEARING EXAMINER: Thank you. Mr. Hall?

24 MR. HALL: No questions.

25 HEARING EXAMINER: Okay. Mr. Baldridge, this is

1 going to be a little bit tedious, but we don't, at this
2 point, have this exhibit organized so that we're going to
3 get a record that is going to be intelligible.

4 So I'm going to go through all of these
5 documents that I believe constitute Exhibit C with you
6 again and I'm going to try to clarify this.

7 The document that's actually marked Exhibit C,
8 that is the document that has the colored circle on it,
9 correct?

10 THE WITNESS: Yes, sir.

11 HEARING EXAMINER: Okay. Now, this is your
12 calculation of the supposed drainage radius for the Crow
13 Flats Fed. Com. No. 1?

14 THE WITNESS: It's a graphical representation of
15 drainage given the assumptions of the calculations, yes.

16 HEARING EXAMINER: Okay. Now, the next two
17 pages, which I'm going to mark as Pages 2 and 3 because
18 they're Pages 2 and 3 of Exhibit C, are your actual
19 drainage calculations, they're actually marked "1 Page"
20 and "2 Page" in the lower left-hand corner, right?

21 THE WITNESS: Yes, sir.

22 HEARING EXAMINER: And the document marked "1
23 Page" is entitled "Drainage Calculations for Crow Flat
24 Fed. Com. Unit No. 1," correct?

25 THE WITNESS: Yes, sir.

1 HEARING EXAMINER: Okay, so that's the second
2 page of Exhibit C. And the next has the same document and
3 has the same title and it has "2 Page." Now, is that the
4 third page of Exhibit 3?

5 THE WITNESS: Yes, sir.

6 HEARING EXAMINER: Okay. The next document
7 appears to me to be a United States Department of Interior
8 Bureau of Land Management Well Completion or Recompletion
9 Report and Log, correct?

10 THE WITNESS: Yes, sir.

11 HEARING EXAMINER: And that is on the Crow Flats
12 Fed. Com. Unit No. 1, right?

13 THE WITNESS: Yes, sir.

14 HEARING EXAMINER: And that is the fourth page
15 of Exhibit C?

16 THE WITNESS: Yes, sir.

17 HEARING EXAMINER: Now, the fifth page of
18 Exhibit C is entitled "Schlumberger Compensated
19 Neutron-Formation Density." Is that right?

20 THE WITNESS: Yes, sir.

21 HEARING EXAMINER: And I'm just going to
22 identify these documents because I don't understand them.
23 The people that do may have some questions for you about
24 them, but...

25 On the third -- the third page is printed in

1 landscape but it has a title that's in portrait at the
2 bottom, and the title in portrait says, "Crow Flat Fed.
3 Com. Unit No. 1," correct?

4 THE WITNESS: Yes, sir.

5 HEARING EXAMINER: And the portion in landscape
6 is entitled "Parameters," correct?

7 THE WITNESS: Yes, sir.

8 HEARING EXAMINER: And that is the sixth page of
9 Exhibit C. Okay, now we have a log that's on legal size
10 paper, and that's the seventh page of Exhibit C?

11 THE WITNESS: Yes, sir.

12 HEARING EXAMINER: And to be sure we can
13 distinguish it -- there's only one other log in here, this
14 one is entitled "Compensated Neutron Formation Density,"
15 correct?

16 THE WITNESS: Yes, sir.

17 HEARING EXAMINER: Okay. That's the seventh
18 page. Now we come to the eighth page. And the eighth
19 page is the header from the log, and it -- for another
20 log. And that one is entitled "Dual Laterolog Micro-SFL,"
21 correct?

22 THE WITNESS: Yes, sir.

23 HEARING EXAMINER: Then the ninth page again is
24 printed in landscape and it has "Gamma Ray" and
25 "Resistivity" up at the top, right?

1 THE WITNESS: Yes, sir.

2 HEARING EXAMINER: All right. Then the tenth
3 page is another log which is entitled "Dual laterol Log,"
4 right?

5 THE WITNESS: Yes, sir.

6 HEARING EXAMINER: And that's the tenth page.
7 Okay, and the 11th page is entitled "Log Analysis of Crow
8 Flats Federal Com Unit No. 1," and that's the one that you
9 said was the Excel analysis, correct?

10 THE WITNESS: Yes, sir.

11 HEARING EXAMINER: That's the 11th page. Okay,
12 the 12th page is entitled "Porosity and Lithology
13 Determination." And how did you characterize that in your
14 previous testimony? I forgot.

15 THE WITNESS: It is the Schlumberger's
16 calculation for cross-plot porosity based upon formation
17 of neutron porosity.

18 HEARING EXAMINER: Okay. And then the next
19 page, the 13th page is the one that has the green colored
20 lines, correct?

21 THE WITNESS: Yes, sir.

22 HEARING EXAMINER: It's entitled "Crow Flats
23 Federal Com. Unit No. 1, Wolfcamp Interval." Now, what
24 does that depict?

25 THE WITNESS: That is graphical representation

1 of the cross-plot porosity and it's cutoff.

2 HEARING EXAMINER: Okay. And then we go to the
3 14th page of Exhibit C entitled "Practical Petroleum
4 Reservoir Engineering Methods." What is that?

5 THE WITNESS: That is the calculation for the
6 volumetric factor.

7 HEARING EXAMINER: Okay. Then we go to the 15th
8 page of Exhibit C, and that is in landscape, and it's
9 entitled "Crow Flats Federal Com. Dog Canyon," and it has
10 green lines and I guess magenta or purple lines, whatever
11 you call them, right?

12 THE WITNESS: Yes, sir.

13 HEARING EXAMINER: And what is that?

14 THE WITNESS: That is the historic production
15 and the projected project to the ultimate recovery based
16 on current decline.

17 HEARING EXAMINER: For the Crow Flats Federal
18 Com. No. 1 well?

19 THE WITNESS: Yes, sir.

20 HEARING EXAMINER: Okay. And then the 16th page
21 is a C-102 for the Crow Flats Fed. Com. Well No. 1?

22 THE WITNESS: Yes, sir, it is.

23 HEARING EXAMINER: And the 17th page is the
24 C-102 for the proposed Lucky Wolf 30 Fed. Com. No. 2,
25 correct?

1 THE WITNESS: Yes, sir.

2 HEARING EXAMINER: Okay. Now I think we'll be
3 able to identify all the instructions by the record.

4 The statement has been made in the testimony of
5 RSC's witnesses that following the farmout agreements,
6 Three Span owns no interest in this unit -- or in this
7 proposed unit other than the well bore interests that it
8 owns in the Crow Flats Fed. Com. Well No. 1; do you
9 disagree with that?

10 THE WITNESS: I'm very unclear as to Three
11 Span's and the working interest owners' rights in this
12 area. We own the well bore rights. But it is my
13 understanding there were other rights that we also owned.
14 Again, I'm not a landman nor a title attorney.

15 HEARING EXAMINER: Yeah, I understand that, and
16 because you're speaking on behalf of the corporation is
17 the only reason I'm asking you this question.

18 But my understanding of the testimony was that
19 Three Span formerly did own other interests in this unit,
20 but by virtue of farmout agreements, it has an amendment
21 to the farmout agreement that it has divested itself of
22 all interests except for the well bore interest.

23 And what I'm trying to get to is, do you
24 disagree with that -- or does Three Span disagree with
25 that?

1 THE WITNESS: Sir, I'm unable to answer the
2 question. I don't mean to -- I don't understand the
3 rights of Three Span or the working interest owners in
4 this quarter section.

5 HEARING EXAMINER: Okay, I'll accept that. I
6 think, then, I will pass you to Mr. Ezeanyim.

7 MR. EZEANYIM: Okay. Mr. Baldridge, what is the
8 current production rate of this Crow Flats -- or what is
9 it making?

10 THE WITNESS: Crow Flats Fed. Com. Unit No. 1
11 makes approximately six barrels of oil a day, nine barrels
12 of gas, no water.

13 MR. Ezeanyim: And that is what it is currently
14 doing?

15 THE WITNESS: Yes, sir.

16 MR. EZEANYIM: I thought the testimony was four
17 to five --

18 THE WITNESS: It was slightly higher.

19 MR. EZEANYIM: Okay. All right. How did you
20 calculate your estimated recovery, did you calculate it
21 volumetrically or did you calculate it by decline of --
22 how did you calculate it?

23 THE WITNESS: We backed the acreage out of the
24 calculation using ultimate recovery in current cum from
25 decline analysis. The rest -- the volumetric equation was

1 used to back the area drainage out.

2 MR. EZEANYIM: So you used the volumetric
3 equation to calculate the --

4 THE WITNESS: Right.

5 Mr. EZEANYIM: Okay. And right now your
6 recoverable rights are for 8,258?

7 THE WITNESS: Through November of 2008, yes,
8 sir.

9 MR. EZEANYIM: When was this well drilled?

10 THE WITNESS: Eagle Oil and Gas drilled this
11 well originally in 1980 as a Marrow well.

12 MR. EZEANYIM: You said 1990?

13 THE WITNESS: August of 1980 as a Morrow
14 prospect.

15 MR. Ezeanyim: Okay. And then what happened,
16 they didn't find anything?

17 THE WITNESS: I would assume not. It was
18 transferred to Cheyenne -- either sold, transferred, I'm
19 not clear on how that transaction occurred. Cheyenne
20 recompleted with its working interest partners to the Wolf
21 Camp.

22 MR. EZEANYIM: Okay. Do you know when that
23 recompleted happened?

24 THE WITNESS: Based on Exhibit C -- I'm not
25 clear on the page numbers, I apologize, it was in May of

1 1980.

2 MR. EZEANYIM: It was recompleted in May of
3 1980?

4 THE WITNESS: Hold on, sir, that's incorrect.
5 The completion report that was submitted to the BLM was
6 submitted in October of 1990.

7 MR. EZEANYIM: Okay, so that's when they
8 completed the Wolf Camp?

9 THE WITNESS: Yes, sir.

10 MR. EZEANYIM: Do you know when the APD was
11 completed in the Wolf Camp?

12 THE WITNESS: According to the form 3164, it was
13 a flowing well producing 38 barrels of oil, 20 MCF gas on
14 a ten -- on a -- it was a three-quarters inch choke.

15 MR. EZEANYIM: Okay. And it's currently, as you
16 said now, producing six barrels a day?

17 THE WITNESS: Yes, sir.

18 MR. EZEANYIM: Okay. And we understand that
19 your are granted -- well, not granted yet, how you got
20 your estimated ultimate recovery is by volumetric
21 calculations, not by decline?

22 THE WITNESS: It was by decline, yes. The
23 ultimate recovery was calculated by decline analysis.

24 MR. EZEANYIM: And the decline rate was what?

25 THE WITNESS: Is 3.5 percent.

1 MR. EZEANYIM: Okay, a difference of 1.5 from
2 1.24. What is your average height in your calculations in
3 this drainage area?

4 THE WITNESS: The average drainage area for the
5 total height?

6 MR. EZEANYIM: Yes, the average height, because
7 I know you average them out, I think.

8 THE WITNESS: Yes. The height is actually in
9 the Excel spreadsheet, those areas in yellow. So 6429,
10 6437, 6456, 6461.

11 MR. EZEANYIM: Okay, so average that out to --

12 THE WITNESS: And then he shows a calculation of
13 the porosity feet of 1.5679 for the bottom interval, and
14 .7398 in the bottom hole.

15 MR. EZEANYIM: Okay. So now, did you calculate
16 -- you think you are going to get 9,000 barrels from
17 there. And now, how long will it take you to recover
18 that?

19 THE WITNESS: Fifty years.

20 MR. EZEANYIM: Fifty years?

21 THE WITNESS: Yes, sir.

22 MR. EZEANYIM: Okay, good. It takes you 50
23 years to recover that?

24 THE WITNESS: Yes, sir. That decline analysis,
25 you have to base it on economics and --

1 MR. EZEANYIM: Yeah. So it's 50 years to get
2 the additional 51,000?

3 THE WITNESS: Yes.

4 MR. EZEANYIM: Okay. Explain to me again how
5 your correlative rights are going to be impaired by giving
6 the other, the Lucky Wolf --

7 THE WITNESS: The Lucky Wolf horizontal will
8 clearly drain -- we'll see significant drainage at our
9 location.

10 MR. EZEANYIM: Okay. What did you say?

11 THE WITNESS: I said it is our belief that given
12 the proximity, though, we would see significant drainage
13 and reduced production at the Crow Flats Fed. Com. Unit
14 No. 1.

15 MR. EZEANYIM: In this process, we do a lot of
16 assumptions, and sometimes these assumptions can kick off
17 anywhere, plus or minus.

18 When I look at Exhibit C, your drainage in this
19 area there, it appears to me that you are not draining
20 your 40 acres, you are encroaching on other people's -- or
21 that acreage that -- you know, you drained all the -- I
22 thought you said 57, which means you're encroaching on
23 other acreage to that 40 acres. So I begin to wonder
24 where the assumptions in the calculations are.

25 THE WITNESS: As I explained earlier, there are,

1 of course, many assumptions that are used, homogeneity
2 being the largest of the assumptions. Homogeneity of
3 matrix. It also assumes that no secondary for fracturing
4 permeability. It's assuming drainage equally at -- It's
5 averaged all of the drain -- The calculations across
6 completion intervals, and there have been quite a few
7 assumptions that were put into it.

8 In reality, the drainage radius would be a very
9 irregular figure.

10 MR. EZEANYIM: Yeah. Very good. You agree that
11 the permeability is .1 to .5 millidarcy?

12 THE WITNESS: I do not have that data. It is
13 high. I do know that.

14 MR. EZEANYIM: And there, the drilling would
15 also be tight?

16 THE WITNESS: Yes, sir.

17 MR. EZEANYIM: Okay. And you alluded to the
18 completion methods on there. You said something about
19 these completion methods. I didn't write it down. If you
20 look at that page you have there, you think you're
21 competing with Donnor Well No. 3, and that's what -- Why
22 are you talking about that, saying that the acid that is
23 used is going to affect your well?

24 THE WITNESS: It's a large volume of acid, but
25 it's a significantly large fracturing in each of these

1 stages. Again, given the proximity of their well to our
2 well -- I do not have access to their stem designs or
3 treatment procedures, or what have you, you would imagine
4 -- you would more than imagine, you assume that the
5 fracture would extend far beyond the distance of our well.

6 MR. EZEANYIM: That you think it will affect
7 your well?

8 THE WITNESS: Yes, sir. Were they to fracture
9 into our well bore, it would potentially catastrophically
10 destroy our well bore itself.

11 MR. EZEANYIM: Okay. I would like to ask you
12 one more question, but I forgot what it was. Go ahead.

13 MR. WARNELL: Okay, yeah, I do have a question,
14 Mr. Baldridge. I think it's a question, or at least you
15 can help me clarify in my mind what's going on.

16 I went in yesterday into in GoTech and looked
17 into production, and I went in and looked at Section 30,
18 16 South, 28 East up top to the Three Span well called
19 Crow Flats A Federal No. 1.

20 THE WITNESS: Yes, sir. That is the well that
21 is in the northeast quarter. There are two Three Span oil
22 and gas wells in Section 30, Crow Flats A Federal No. 1,
23 and then, of course, the Crow Flats Fed. Com. Unit No. 1.

24 MR. WARNELL: All right. Thank you.

25 MR. EZEANYIM: So there are two different wells?

1 THE WITNESS: Yes, sir.

2 HEARING EXAMINER: Are you finished,
3 Mr. Ezeanyim?

4 MR. EZEANYIM: Yes, I am.

5 HEARING EXAMINER: Mr. Bruce, any redirect?

6 MS. MUNDS-DRY: Mr. Brooks, this is my witness.

7 HEARING EXAMINER: Oh, I'm sorry.

8 Ms. Munds-Dry, do you have anything further?

9 MS. MUNDS-DRY: I don't have any further
10 questions.

11 HEARING EXAMINER: Mr. Bruce, did you have
12 anything further for this witness?

13 MR. BRUCE: I don't, but I would like to recall
14 Mr. Cate to answer one question.

15 HEARING EXAMINER: Okay, you may do so.

16 REDIRECT EXAMINATION

17 MR. RANDALL CATE

18 BY MR. BRUCE:

19 Q. Mr. Cate, you sat here and listened to
20 Mr. Baldridge's testimony, did you not?

21 A. Yes, I did.

22 Q. And you heard him express concern about the size
23 of the frac in the horizontal well?

24 A. Yes, sir, I did.

25 Q. In your opinion, and if you could discuss this,

1 is there any danger to Three Span's well from the -- from
2 how the Lucky Wolf 30 2 well will be drilled, completed,
3 and fraced?

4 A. No, there's no danger. Exhibit B does reflect
5 what COG pumped in their fracture treatment simulation,
6 and RSC does plan to do a similar treatment.

7 The completion technology is called Peak
8 Isolated Packer Completion, but it's peak completion for
9 short. Basically, you have an open hole -- it's not
10 cemented -- the entire lateral.

11 And then the 4 1/2 inch casing is run the entire
12 length with packers every 500 or 600 feet along the
13 lateral, so you'll have nine, maybe ten stages. Now this
14 was a short lateral, so they only had seven stages. But
15 if you drill the entire section, you'll have eight or nine
16 stages.

17 There is a port next to each packer and then
18 they drop balls, medal balls that are larger and larger
19 and larger in diameter that will set each of these stages.

20 So, number one, you're in an open hole
21 essentially. The port opens and you do frac each stage as
22 is shown here. There's approximately 3,00 barrels or so.
23 But it is designed to stay within about 100 foot
24 intervals.

25 By the way, I've discussed with Halliburton and

1 B.J. actually the frac design that we're talking about
2 here. It being an open hole completion, and these wells
3 being drilled east-west along primary stress directions,
4 the fracs stay entirely along the lateral, they would not
5 go toward -- tangentially toward the Three Span well.

6 So each stage is designed to stay entirely
7 within the Wolf Camp interval within that stage and -- I'm
8 not sure what else to say. But there is very little risk.
9 There's no evidence at all that the fracs go out of zone
10 or --

11 Q. Are you saying the fracs grow vertically?

12 A. The fracs grow vertically. And that's proven.
13 That's elementary engineering. You don't lift the burden
14 of the earth, you frac up and down. That's why we have
15 frac height logs. And so, yes, any growth is going to be
16 in a vertical direction, not toward -- horizontally over
17 toward his well.

18 Q. Okay. And will the horizontal well access, what
19 you hope for, most of the producible zone in the Wolf
20 Camp?

21 A. Yes. Which -- Every zone, Mr. Baldrige's
22 testimony indicated they did not complete. That is the
23 beauty of the horizontals. They are the most efficient
24 method to recover the reserves.

25 Q. Thank you.

1 MR. BRUCE: That's all I have, Mr. Examiner.

2 HEARING EXAMINER: Ms. Munds-Dry?

3 MS. MUNDS-DRY: No questions from me.

4 HEARING EXAMINER: Mr. Hall?

5 MR. HALL: No questions.

6 MR. EZEANYIM: I want to make some
7 clarification. Is COG your partner?

8 THE WITNESS: Well, COG also owns a very small
9 interest in the well, but COG has about a quarter, yes.

10 Mr. EZEANYIM: Okay. Do you have an agreement
11 with COG that they agree to participate in this well?

12 THE WITNESS: Yes.

13 MR. EZEANYIM: Because we had a presentation but
14 they didn't -- COG didn't --

15 THE WITNESS: We do not actually have, I think,
16 a signed JOA yet, but --

17 MR. EZEANYIM: Okay. But they agreed to
18 participate --

19 THE WITNESS: Verbally they've indicated they
20 would join in the 2-H, yes.

21 MR. EZEANYIM: Okay. That's all I wanted to
22 know.

23 HEARING EXAMINER: Okay, you may step down.

24 MR. BRUCE: I rest my case.

25 HEARING EXAMINER: Okay. Well, I think we have

1 a legal issue here and I'm interested if any of the
2 lawyers want to address it. There are very few cases that
3 I'm aware of on the subject of well bore assignments, and
4 I believe it was you, Mr. Bruce, that after the last
5 hearing provided me with an extensive article on the
6 subject and it doesn't cite very many case.

7 MR. BRUCE: I'm afraid it doesn't.

8 HEARING EXAMINER: Okay. There is one case, a
9 recent one from Texas, PetroPro Limited versus Upland
10 Resources, Inc. And that's not yet in the Reporter, but
11 its citation is 2007 Westlaw, 1717178.

12 And the judge who wrote that opinion attempts to
13 set everything out in great -- he's following the judicial
14 inclination to try to settle the law in an unsettled
15 area.

16 But of course, it's a Texas case and I was
17 admonished this last week inadvertently referring to the
18 Inspection of Records Act and the Open Records Act, and in
19 order to excuse my fault when it was called to my
20 attention, I mentioned that's what it was called in Texas.
21 And it was suggested to me that that made my fault worse
22 rather than...

23 But anyway, the reasoning that this Court uses
24 is very much in line with the testimony of your land
25 witness, Mr. Bruce, who testified that in his opinion, as

1 I understand, Three Span has no correlative rights.

2 This case is reasoned on the idea that you have
3 a right of capture. As a well bore owner, you don't own
4 any subsurface rights except in the well bore itself,
5 8 inches or 14 inches or whatever it is, but the oil that
6 comes into that well bore you own by virtue of the rule of
7 capture.

8 If that were true, it would be very questionable
9 to me whether or not the owner of a well bore assignment
10 owns any correlative rights.

11 And certainly we have an issue that's been
12 presented here about -- as correlative rights are defined
13 in the New Mexico Oil and Gas Act. So -- I'm not saying
14 that's the case, I'm just saying the question arises
15 because of the nature of well bore assignments and because
16 of the logic that the Amarillo Court of Appeals used in
17 this case.

18 Of course, we also have another issue of
19 possible damage to the well. And we know we have that
20 issue, but does anybody have any thoughts they would like
21 to add on the issue of correlative rights, whether there
22 even is a correlative right here, and if so, how do you
23 define it when it's within the same spacing unit?

24 MR. BRUCE: Well, Mr. Examiner, I -- I won't set
25 forth my whole closing, but that was going to be my point,

1 was that Three Span owns no correlative rights. They own
2 the right to produce that well bore as long as the other
3 working -- and, you know, under Rule -- well, I have a
4 couple of handouts. These are not marked as exhibits, but
5 they're...

6 Mr. Examiner, under Rule 19.15.15.9A, up to four
7 wells are allowed on a 40 acre well unit.

8 HEARING EXAMINER: Right.

9 MR. BRUCE: And the second handout I handed to
10 you is the rule -- just so you have it in the case file --
11 about two operators on a well unit.

12 And I think the other attorneys in here would
13 probably concur, this originally came up when people
14 started drilling into Morrow wells and there were two
15 operators on a well unit.

16 And I believe originally, the state's on guard
17 system at that point was not set up to handle two
18 operators on a well unit and recording production -- and
19 especially with respect to our near and dear Taxation and
20 Revenue Department. And that finally got corrected, and
21 so two operators were allowed on a well unit.

22 But here we are today now, especially over the
23 last couple years, there have been more and more --
24 especially Wolf Camp and Bone Spring and some Delaware oil
25 units where there are going to be two operators on a well

1 unit.

2 The thing is, the undisputed testimony from
3 Mr. Smith is that Three Span owns well bore rights only,
4 and the assignment by which Three Span derives its
5 interest reserves to the assignors, who are now RSC and
6 Peregrine Production, the right to any other -- to develop
7 acreage outside of that well bore.

8 If you'll allow Three Span to deny the right of
9 RSC to drill this well, you're giving them rights they
10 never had. And therefore, it's my point that Three Span
11 owns no correlative rights. Somewhere down the road,
12 Three Span could have acquired these rights and -- and
13 that might be another issue.

14 But that's not what we have here today. They
15 did acquire some rights, but then they farmed them out,
16 for value received, to RSC, and I believe RSC has the
17 right to develop those rights.

18 HEARING EXAMINER: Okay. Ms. Munds-Dry?

19 MS. MUNDS-DRY: Mr. Brooks, the challenge that
20 Three Span has with that argument is that I'm afraid we're
21 encroaching on a station of the OCD in determining the
22 extent of what those well bore rights are and what that
23 assignment really means. This is a question, quite
24 frankly, for a court of law.

25 And the question, I believe, originally was, do

1 they have any correlative rights? As you pointed to the
2 Texas law case, it helps to try to answer that. We don't
3 have any New Mexico law on this issue.

4 HEARING EXAMINER: I'm not aware of any.

5 MS. MUNDS-DRY: And neither am I. And so we are
6 in a little bit of an open territory here.

7 Now, Three Span is the operator of the Crow
8 Flats No. 1 well and does have the right to operate that
9 well and produce from the Wolf Camp in that well. I would
10 argue then that in our opinion, they do have correlative
11 rights, they do have a right there to produce the well.

12 But that's just my opinion and I don't think we
13 have any law or any prior OCD history of orders that helps
14 us answer that question.

15 Now -- and I agree with Mr. Bruce that this rule
16 was developed for multiple operators in a different
17 situation in a different time, not only dealing with
18 Morrow wells when you had three 220 acre spacing units,
19 but also when you had vertical wells.

20 So if you go back a little further and you're
21 discussing spacing units and how they are determined and
22 drainage patterns, well, that works fine and good when you
23 have vertical wells, but when you get into this kind of
24 situation, again, I think we're in a unique situation
25 where you have horizontal wells and vertical wells and

1 what's appropriate for drainage patterns and whether you
2 need more than one operator on that spacing unit.

3 So again, I think the question is open. This
4 rule unfortunately does not address that because it did
5 not contemplate these issues at the time.

6 HEARING EXAMINER: Right.

7 MS. MUNDS-DRY: So I am throwing a lot more
8 questions back your way, because I think it is open-ended.
9 And I would just mostly caution you, Mr. Brooks, to not
10 get too far down the path of what the well bore assignment
11 really means in terms of Three Span's rights, because I do
12 think that's beyond your jurisdiction.

13 Now, to the extent we're talking about waste and
14 correlative rights, obviously, that's appropriate. But I
15 think we have to be careful to limit our examination of
16 it, and that's why we did not get into the issues of what
17 these well bore assignment conveyances mean in terms of
18 Three Span's rights, because we do not believe that's
19 appropriate and it's beyond the jurisdiction of the OCD.

20 HEARING EXAMINER: Well, you know, there are
21 limitations on the jurisdiction of the OCD that -- and I
22 understand that. But we've got something of a problem, it
23 seems to me here, because if we're being asked to make a
24 judgment as to whether or not the granting of an
25 application impairs correlative rights, we have to form

1 some working notion of what the party's correlative rights
2 are in order to make that determination.

3 So it seems to me that while we may not have the
4 right to determine what, as a matter of real estate law,
5 this conveyance conveys, we do have to make some kind of
6 determination of what correlative rights are involved.

7 That may involve at least a -- for the purpose
8 of that determination, construing this assignment to some
9 extend. But anyway, the bottom line is, nobody has any --
10 nobody's aware of any authority that needs to be
11 considered other than what Mr. Bruce has submitted and
12 what I've come up with.

13 MR. BRUCE: I would note, Mr. Examiner, that
14 with respect to general oil and gas law, not conservation
15 law, but there is a New Mexico Supreme Court case which I
16 could probably dig up that does state that with respect to
17 general oil and gas law, New Mexico does follow Texas law.

18 HEARING EXAMINER: Well, there's, of course, the
19 famous case of Continental Oil Company versus MNOCD which
20 seems to say exactly the opposite with regard to
21 conservation law. But..

22 MR. BRUCE: But my client's point is -- I mean,
23 they don't care to harm Three Span, obviously.

24 HEARING EXAMINER: Yeah.

25 MR. BRUCE: If it does have correlative rights,

1 it's limited to, like you say, virtually the right to
2 capture out of that well bore.

3 HEARING EXAMINER: Okay, what you're saying
4 about they don't desire to harm Three Span raises the
5 second issue that I want to ask you about. I guess I
6 shouldn't have allowed you to use your own closing in your
7 own way, but --

8 MR. BRUCE: That's okay.

9 HEARING EXAMINER: It seems to me we have to
10 come up with a practical solution if -- and I'm making no
11 prejudgment as to how we decide this case. But if we were
12 to decide that we were to allow this well, and basically,
13 I understand Terry's position is, we shouldn't allow the
14 well at all, and if that's the decision, then this part
15 doesn't arise.

16 But if we allow the well, I was trying to think
17 how we could get a practical solution to this given what
18 we call a unit and how we deal with units in New Mexico.

19 And it seems to me we need to -- if we get to
20 that point in the other case, in deciding the other case,
21 what we're going to need to do is take advantage of the
22 language in the New Mexico Supreme Court case that -- I
23 always call it the Bartels and James case, and I've called
24 it that so long I can't remember the real name of it.

25 But it's the one that says a spacing unit and

1 proration unit are different things. We can have a
2 spacing unit that's one way and a proration unit that's
3 another way.

4 It seems to me we have to -- what we want to do
5 then is to define a staking unit that excludes the Three
6 Span well but leaves the proration unit as included in
7 there. That seems to me to be the practical solution.
8 Does anybody have any comments on that?

9 MR. BRUCE: I'd agree with you. Obviously,
10 we're not -- my clients are not making any claim of title
11 to the Three Span well nor production therefrom.

12 HEARING EXAMINER: You're not claiming that's
13 going to be rolled into the unit?

14 MR. BRUCE: Correct. It has its own 40 acre
15 unit and it is owned by Three Span and I don't know if it
16 has any working interest partners, but we're not making
17 any claim to that.

18 HEARING EXAMINER: Well, I don't think it can be
19 -- can stay on that 40 acre unit, because it's going to --
20 we have an allowable issue. But I don't think that's --
21 from the testimony, I don't think that will become an
22 issue. Because even if you say that the allowable is
23 computed on 120 acre basis --

24 MR. BRUCE: 160.

25 HEARING EXAMINER: 160 acre basis, the Three

1 Span well is not going to come anywhere near even
2 one-fourth of that well, according to the testimony,
3 correct?

4 MR. BRUCE: The Three Span well --

5 HEARING EXAMINER: The Three Span well is not
6 going to produce anywhere even -- even the allowable for a
7 40 acre unit.

8 MR. BRUCE: Correct.

9 HEARING EXAMINER: So it's not going to -- it
10 can be rolled into the 120 acre allowable without causing
11 any issues between the two of you?

12 MR. BRUCE: That is correct.

13 HEARING EXAMINER: Again, assuming we allow the
14 Lucky Wolf well to be drilled. Okay, any further
15 comments, Ms. Munds-Dry?

16 MS. MUNDS-DRY: No. I don't disagree with that.

17 HEARING EXAMINER: Okay. I will quit talking
18 and let either of the attorneys say anything else they
19 want to say.

20 MR. BRUCE: Well, the only other issue -- and
21 I'll be very brief on it, is I think Mr. Cate's testimony
22 shows there is virtually no issue with respect to RSC's
23 well hitting and damaging Three Span's well.

24 And the last thing I handed you was just a
25 portion of a Midland Map Company map showing -- and I

1 could give you any number of land plats, but this one
2 shows parts of Township 21 South, 37 East, and 22 South,
3 37 East.

4 Up in 21 South, 37 East, there's testimony in
5 the record of a case -- several cases involving Apache
6 unitizations in that area where there are, I believe -- I
7 forget the total number, but somewhere in excess of 3,500
8 to 4,000 well bores in that one township alone.

9 If you just look at this, you see any number of
10 areas where there's two, three, even four wells virtually
11 on the same well pad. And I've never heard any report or
12 statement or reporting to the OCD where one well bore has
13 hit another.

14 Obviously, the well density -- just looking at
15 the land plats, is substantially less, again, 16 South, 28
16 East, than it is here. If all of these years there's
17 never been any report of one well bore hitting another, I
18 think -- I just think it's baseless to say there's going
19 to be any harm to the well bore.

20 HEARING EXAMINER: Ms. Munds-Dry?

21 MS. MUNDS-DRY: Mr. Brooks, we would just
22 respectfully disagree, that given the proximity of these
23 two wells to each other and the fact that they're drilling
24 a horizontal well where you do have design and plans but
25 you're not able to control that 100 percent, it's not

1 baseless to say that there is a risk.

2 And Three Span, as operator, has obligations to
3 its working interest owners to protect that well bore. So
4 that is our concern, that there is a risk.

5 HEARING EXAMINER: Okay. Very good. If there's
6 nothing further, than Case No. 14308 will be taken under
7 advisement.

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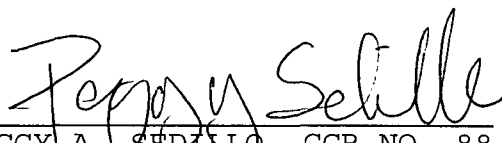
I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 14308
heard by me on 4-16-2009
Daniel K. Brant
Oil Conservation Division

1 STATE OF NEW MEXICO)
 2) ss.
 3 COUNTY OF BERNALILLO)
 4

5 REPORTER'S CERTIFICATE

6
 7 I, PEGGY A. SEDILLO, Certified Court
 8 Reporter of the firm Paul Baca Professional
 9 Court Reporters do hereby certify that the
 10 foregoing transcript is a complete and accurate
 11 record of said proceedings as the same were
 12 recorded by me or under my supervision.

13 Dated at Albuquerque, New Mexico this
 14 25th day of April, 2009.
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