

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

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

APPLICATION OF CIMAREX ENERGY COMPANY FOR A NONSTANDARD OIL SPACING  
AND PRORATION UNIT AND COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO

CASE NO. 14480

**ORIGINAL**

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID K. BROOKS, Presiding Examiner  
TERRY G. WARNELL, Technical Examiner

June 10, 2010

Santa Fe, New Mexico

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This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID K. BROOKS, Presiding Examiner, and TERRY G. WARNELL, Technical Examiner, on Thursday, June 10, 2010, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South St. Francis Drive, Room 102, Santa Fe, New Mexico.

REPORTED BY: Jacqueline R. Lujan, CCR #91  
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FOR CIMAREX ENERGY COMPANY:

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FOR LYNX PETROLEUM CONSULTANTS, INC.:

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1 EXAMINER BROOKS: We'll call at this time  
2 Case Number 14480, application of Cimarex Energy Company  
3 for a nonstandard oil spacing and proration unit and  
4 compulsory pooling, Eddy County, New Mexico. Call for  
5 appearances.

6 MR. LARSON: Gary Larson, of Hinkle,  
7 Hensley, Shanor & Martin, for Cimarex. I have three  
8 witnesses.

9 MS. MUNDS-DRY: Ocean Munds-Dry, with the  
10 law firm of Holland & Hart, here representing Lynx  
11 Petroleum Consultants this morning. I have one witness.

12 EXAMINER BROOKS: Would the witnesses  
13 please stand, identify themselves and be sworn?

14 MR. SWAIN: I'm Michael Swain, a reservoir  
15 engineer for Cimarex Energy.

16 MR. CATALANO: Lee Catalano, geologist  
17 with Cimarex Energy.

18 MR. COMPTON: Mark Compton, landman for  
19 Cimarex Energy.

20 MR. SCOTT: Larry Scott, president of Lynx  
21 Petroleum Consultants.

22 EXAMINER BROOKS: Please swear the  
23 witnesses.

24 (Four witnesses were sworn.)

25 EXAMINER BROOKS: Thank you, Ms. Reporter.

1 I take it this is going to be opposed, since  
2 you have a witness.

3 MS. MUNDS-DRY: Yes, sir.

4 EXAMINER BROOKS: Do you wish to make an  
5 opening statement?

6 MR. LARSON: I'll waive opening statement.

7 EXAMINER BROOKS: Do you wish to make an  
8 opening statement?

9 MS. MUNDS-DRY: No, sir.

10 EXAMINER BROOKS: Very good. You may  
11 proceed.

12 MR. LARSON: I'd like to call Mr. Compton  
13 as my first witness.

14 MARK COMPTON

15 Having been first duly sworn, testified as follows:

16 DIRECT EXAMINATION

17 BY MR. LARSON:

18 Q. Please state your full name for the record.

19 A. Mark Compton.

20 Q. Where do you reside?

21 A. Midland, Texas.

22 Q. By whom are you employed and in what capacity?

23 A. Cimarex Energy Company as a landman.

24 Q. How long have you been employed by Cimarex?

25 A. Almost two years.

1 Q. Could you briefly summarize your education and  
2 oil and gas employment background?

3 A. Degree in Finance from the University of  
4 Tennessee in Knoxville. I've been a landman for almost  
5 seven years, the last five years in Lea and Eddy  
6 Counties.

7 Q. Are you a Registered Professional Landman?

8 A. Yes, sir.

9 Q. Are you familiar with the land matters that  
10 pertain to Cimarex's application in this case?

11 A. Yes.

12 Q. Have you previously testified in a Division  
13 hearing?

14 A. Yes. Case Number 14418.

15 Q. And in that hearing, were you qualified as an  
16 expert in land matters?

17 A. I was.

18 MR. LARSON: Mr. Examiner, based on Mr.  
19 Compton's educational and professional experience, I move  
20 that he be qualified as an expert in land matters.

21 MS. MUNDS-DRY: No objection.

22 EXAMINER BROOKS: So qualified.

23 Q. (By Mr. Larson) Mr. Compton, what is Cimarex  
24 seeking in its application in this case?

25 A. We're seeking an order creating a standard

1 40-acre unit in the northeast half of the northwest half  
2 of Section 21, Township 19 South, Range 31 East, 2,500  
3 feet to the base of the Bone Spring formation; a 160-acre  
4 nonstandard oil spacing and proration unit in the east  
5 half of the west half of Section 21; and a pooling of all  
6 mineral interests from 2,500 to the base of the Bone  
7 Spring in the east half of the west half of Section 21.

8 Q. Who holds the surface ownership in this  
9 proposed 160-acre project?

10 A. The BLM does.

11 Q. Are you aware of any disputed title issues  
12 pertaining to the proposed project area?

13 A. No.

14 Q. Does Cimarex own ownership interests in each  
15 quarter/quarter section of the proposed 160-acre project  
16 area?

17 A. We do.

18 Q. How did you acquire those interests?

19 A. We acquired our interests in the north half of  
20 this unit with a farmout from Devon Energy, 81 percent.  
21 We then picked up a term assignment from Marbob and EGL  
22 Resources. We then picked up -- executed operating  
23 agreements with the five companies that are part of the  
24 Bass Group, who own 40 percent of the south, and also  
25 with Seven Rivers, who owns 4 percent of the south.

1 Q. Did you also reach agreement with EGL?

2 A. Yes, we have. Thomson with EGL.

3 Q. And please briefly describe the well that  
4 Cimarex proposes to drill in the project area.

5 A. We plan to drill a Penny Pincher 21 Fed. Com.  
6 Number 2 as a horizontal well in the second Bone Spring  
7 sandstone formation, with an orthodox surface location in  
8 the northeast of the northwest and an orthodox bottom  
9 hole location in the southeast of the southwest.

10 Q. Is the second Bone Spring sandstone the only  
11 target for the proposed well?

12 A. Yes.

13 Q. At this time, I'd ask you to identify Cimarex  
14 Exhibit Number 1.

15 A. It's a C-102.

16 Q. Does the plat included in Exhibit 1 depict the  
17 location of the well that Cimarex proposes to complete?

18 A. Yes, it does.

19 Q. Does it accurately identify the surface and  
20 bottom hole locations of the well?

21 A. Yes, it does.

22 Q. And are both of those locations in an orthodox  
23 location?

24 A. Yes.

25 Q. Will the entire well be in an orthodox

1 location?

2 A. Yes.

3 Q. In your role as a landman, were you  
4 responsible for identifying all uncommitted interest  
5 owners in the proposed project area?

6 A. Yes.

7 Q. How did you accomplish that?

8 A. We initially retained Shaw Interest, a  
9 brokerage firm in Midland, to determine the ownership,  
10 and then also the Chappell Law Firm to do the title  
11 paperwork.

12 Q. Do these two firms work under your direction?

13 A. Yes.

14 Q. Please identify Exhibit 2.

15 A. A list of interest owners.

16 Q. These are uncommitted interest owners?

17 A. Correct.

18 Q. And did you prepare this list?

19 A. Yes. I prepared it on information I received  
20 from both Shaw and Chappell.

21 Q. Are all of the parties listed on Exhibit 2  
22 working interest owners?

23 A. Yes.

24 Q. Are all of these listed addresses good  
25 addresses?

1 A. Yes, they are.

2 Q. Would it be correct to say that all the  
3 parties listed on Exhibit 2 are the parties that you seek  
4 to pool in this case?

5 A. They are.

6 Q. At least 30 days prior to the filing of  
7 Cimarex's application, did you attempt to obtain a  
8 voluntary joinder of all of these working interest  
9 owners?

10 A. We did.

11 Q. Please identify Exhibit Number 3.

12 A. That's a sample proposal letter that was sent  
13 to all of the working interest owners.

14 Q. You prepared and signed this letter?

15 A. Yes.

16 Q. Did you send this same identical letter to all  
17 the parties listed on Exhibit 2?

18 A. Yes.

19 Q. Did you enclose anything with this letter?

20 A. We enclosed an AFE and a proposed operating  
21 agreement.

22 Q. And if you'll next identify Exhibit Number 4.

23 A. That's the AFE that was sent with the well  
24 proposal.

25 Q. Who prepared the AFE on behalf of Cimarex?

1 A. Michael Swain, reservoir engineer.

2 Q. And he will testify later in this case?

3 A. Yes.

4 Q. After you sent the proposal letter with the  
5 AFE and proposed operating agreement, did you or anyone  
6 else at Cimarex communicate with any of the interest  
7 owners?

8 A. Yes.

9 Q. Did you personally?

10 A. Yes.

11 Q. And anyone else at Cimarex?

12 A. Yes. Jeff Goutcher who is the regional land  
13 manager of the Permian region of Cimarex.

14 Q. Were you unable to strike a deal with any of  
15 the interest owners?

16 A. No, we were not.

17 Q. In your opinion, did Cimarex make a good-faith  
18 effort to obtain the voluntary joinder of all interest  
19 owners before filing the application?

20 A. Yes.

21 Q. Please refer again to Exhibit 4. Does it  
22 identify the cost of the proposed horizontal well?

23 A. Yes. It has a dry hole cost of 1,863,990, and  
24 a completed well cost of 3,687,061.

25 Q. Does Cimarex have prior experience in the

1 drilling and completing of horizontal wells in the Bone  
2 Spring in Southeastern New Mexico?

3 A. Yes, sir. In the last 12 months, we've  
4 drilled 11 horizontal Bone Spring wells in Southeast New  
5 Mexico.

6 Q. Were you personally involved in the  
7 development of any of those wells?

8 A. Seven of them.

9 Q. And in your experience in this area, are the  
10 well costs set out in the AFE in line with the cost of  
11 other horizontal wells that Cimarex has drilled?

12 A. Yes.

13 Q. What entity are you requesting the Division to  
14 designate as the operator of the proposed well?

15 A. Cimarex Energy Company of Colorado.

16 Q. What is the relationship between Cimarex  
17 Energy of Colorado and Cimarex Energy Company which filed  
18 the application?

19 A. Cimarex Energy Company of Colorado is a  
20 wholly-owned subsidiary of Cimarex Energy Company.

21 Q. Do you have a recommendation for the Examiner  
22 for the amounts which Cimarex should be paid for  
23 supervision and administrative expenses?

24 A. We request 7,000 a month be allowed for  
25 drilling the well and 700 a month for the supervision and

1 administration after the well is completed.

2 Q. Are these amounts substantially equivalent to  
3 those previously approved by the Division for --

4 A. Yes.

5 Q. -- horizontal wells?

6 A. Yes.

7 Q. Please wait until I finish my question.

8 Is Cimarex requesting that the rates for  
9 supervision and administrative expenses be periodically  
10 adjusted, pursuant to COPAS accounting procedures?

11 A. Yes.

12 Q. And does Cimarex also seek a 200 percent  
13 charge for the risk of drilling and completing the  
14 proposed well?

15 A. Yes.

16 Q. Did Cimarex provide certified mail notices of  
17 its application and today's hearing to the interest  
18 owners listed in Exhibit 2?

19 A. Yes.

20 Q. Please identify Exhibit Number 5.

21 A. It's one of the letters to the interest owners  
22 providing notice of the application and hearing.

23 Q. Was the same notice letter sent to each of the  
24 interest owners?

25 A. Yes, it was.

1 Q. Were they all sent to good addresses?

2 A. Yes, they were.

3 Q. Please identify Exhibit Number 6.

4 A. It's a list of offset operators or working  
5 interest owners.

6 Q. Within a quarter section of the proposed  
7 160-acre project area?

8 A. Yes.

9 Q. Who prepared this list?

10 A. The Hinkle Law Firm.

11 Q. Pursuant to your direction?

12 A. Yes.

13 Q. Were certified mail letters sent to each of  
14 the offset operators and interest owners notifying them  
15 of the filing of the application and today's hearing?

16 A. Yes.

17 Q. Please identify Exhibit Number 7.

18 A. That's one of the letters to the offset  
19 operators and interest owners providing notice of the  
20 application and the hearing.

21 Q. This same letter was sent to each of the  
22 offset operators and interest owners?

23 A. Yes, sir.

24 Q. To your knowledge, does any interest owner  
25 within the proposed project area have a permit to drill a

1 well within the project area?

2 A. No.

3 Q. Are you aware of any plans to drill a well in  
4 the project area?

5 A. No.

6 Q. And in your opinion, will Cimarex's  
7 correlative rights be violated if the Division denies its  
8 application?

9 A. Yes.

10 MR. LARSON: That's all I have for Mr.  
11 Compton. I move admission of Exhibits 1 through 7.

12 MS. MUNDS-DRY: No objection.

13 EXAMINER BROOKS: Exhibits 1 through 7 are  
14 admitted.

15 (Exhibits 1 through 7 were admitted.)

16 MS. MUNDS-DRY: I have a few questions.

17 EXAMINER BROOKS: Yes, Ms. Munds-Dry, you  
18 may examine the witness.

19 CROSS-EXAMINATION

20 BY MS. MUNDS-DRY:

21 Q. Good morning.

22 A. Good morning. How are you?

23 Q. Good. After your February 8th letter, you  
24 didn't call Mr. Scott to follow up on this letter, did  
25 you?

1 A. No, ma'am, I did not.

2 Q. You didn't email him?

3 A. No, ma'am, I did not.

4 Q. So no follow up after this February 8th  
5 letter?

6 A. No. Mr. Scott, as late as last week, word got  
7 back to me that he was refusing to speak with me. So I  
8 put him in touch with my manager, who spoke with him.

9 Q. Do you know if Mr. Scott and your manager  
10 spoke?

11 A. I do.

12 Q. And did they have a conversation?

13 A. I am told they had a conversation. Yes,  
14 ma'am.

15 Q. And are you aware of whether they reached any  
16 kind of agreement?

17 A. I am assuming by the fact that we're here,  
18 they did not.

19 MS. MUNDS-DRY: Thank you. That's all the  
20 questions I have.

21 EXAMINATION

22 BY EXAMINER BROOKS:

23 Q. Mr. Compton, when you were speaking about  
24 mineral owners -- and you'll have to pardon my long-time  
25 habits of terminology which have no particular

1 significance, other than I've formed these habits. I  
2 think of mineral owners being a mineral fee owner.

3 A. Correct.

4 Q. But you're actually talking about lease  
5 owners?

6 A. Correct. Leasehold interest owners.

7 Q. You have to use the terminology that's more  
8 familiar to me. All of the people listed on Exhibit 2  
9 are owners of interests in oil and gas leases?

10 A. They are the uncommitted.

11 Q. But none of them is an owner of an unleased  
12 interest?

13 A. No, sir.

14 Q. They're all owners of interests in oil and gas  
15 leases?

16 A. They are.

17 Q. Is this a Bone Spring prospect?

18 A. Yes, sir.

19 Q. And are you seeking -- you said you're seeking  
20 a 40-acre unit in the northeast of the northwest?

21 A. Yes, sir.

22 Q. Is that to be from the surface to the base of  
23 the Bone Spring?

24 A. That's from 2,500 subsurface to the base of  
25 the Bone Spring.

1 Q. Is there a depth severance at 2,500?

2 A. Yes, sir, there is.

3 Q. 2,500 to the base of the Bone Spring. Okay.

4 And then you're seeking the lateral in the  
5 Bone Spring only?

6 A. Yes, sir.

7 EXAMINER BROOKS: Okay. Very good. I  
8 believe that's all my questions.

9 Mr. Warnell?

10 EXAMINATION

11 BY EXAMINER WARNELL:

12 Q. Mr. Compton, just for clarification, I believe  
13 you stated your only interest -- your only target was the  
14 second Bone Spring sandstone?

15 A. That's correct.

16 EXAMINER WARNELL: No other questions.

17 EXAMINER BROOKS: Do you have anything  
18 further?

19 MR. LARSON: I have nothing further.

20 EXAMINER BROOKS: The witness may stand  
21 down. Call your next witness.

22 MR. LARSON: Thank you. I call Lee  
23 Catalano.

24 LEE CATALANO

25 Having been first duly sworn, testified as follows:

## DIRECT EXAMINATION

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BY MR. LARSON:

Q. Please state your name for the record.

A. Lee Catalano.

Q. Where do you reside?

A. Midland, Texas.

Q. By whom are you employed and in what capacity?

A. I'm a senior geologist with Cimarex Energy.

Q. And how long have you been employed by Cimarex  
Energy?

A. About five years.

Q. Could you briefly summarize your professional  
experience in the oil and gas industry?A. Thirty-two years working the Permian Basin in  
New Mexico, and I have a Master's degree from Oklahoma  
State.Q. Do you personally have experience with the  
completion of horizontal wells in Southeastern New  
Mexico?A. Yes. Primarily that's all I've done for the  
last two and a half years.Q. Are you familiar with the geological aspects  
of Cimarex's application in this case?

A. I am.

Q. Have you previously testified before the

1 Division?

2 A. Yes.

3 Q. Were you qualified as an expert geologist in  
4 that case?

5 A. Yes.

6 MR. LARSON: Mr. Examiner, I move for the  
7 qualification of Mr. Catalano as an expert geologist for  
8 purposes of this hearing.

9 MS. MUNDS-DRY: No objection.

10 EXAMINER BROOKS: So qualified.

11 Q. (By Mr. Larson) Did you have a hand in  
12 Cimarex's analysis of the prognosis for the proposed  
13 Penny Pincher 21 Federal Com. Number 2 Well?

14 A. Yes.

15 Q. And I direct your attention to Exhibit Number  
16 8 and ask you to identify it.

17 A. Exhibit Number 8 is a production map  
18 surrounding the Penny Pincher area.

19 Q. Did you prepare this exhibit?

20 A. Yes.

21 Q. Within the yellow shaded area, we see four  
22 lines with numbers at the tops of the lines. What are  
23 those lines intended to depict?

24 A. The four horizontal wells that we have  
25 proposed.

1 Q. And the subject of today's hearing is the one  
2 marked Number 2?

3 A. That's correct.

4 Q. What does is this exhibit intended to depict?

5 A. This exhibit is to show the producing  
6 intervals and reservoirs in the area surrounding the  
7 Penny Pincher lease, including the Bone Spring.

8 Q. And do you agree with Mr. Compton's testimony  
9 that the target of the proposed well is the second Bone  
10 Spring sand?

11 A. Yes, it is.

12 Q. Next I'll ask you to identify Exhibit Number  
13 9.

14 A. That is a structure map on top of the second  
15 Bone Spring sandstone.

16 Q. Did you also prepare this exhibit?

17 A. I did.

18 Q. What is this exhibit intended to depict?

19 A. This exhibit is to show the structural dip of  
20 the second Bone Spring sand, which is the target interval  
21 for our horizontal proposal. It shows that the dip is  
22 off to the south/southeast.

23 Q. And when were you were analyzing the prognosis  
24 for the proposed well, did you also look at the first and  
25 third Bone Spring sands?

1 A. Yes. But our target is the second sand here.

2 Q. Next I'll ask you to identify Exhibit Number  
3 10.

4 A. Okay. Exhibit 10 is a Net Porosity Isopach  
5 Map of the second Bone Spring sand.

6 Q. Again, we have the four lines depicting  
7 proposed well locations for horizontal wells?

8 A. That's correct.

9 Q. And the one marked Number 2 is the proposed  
10 well that's the subject of the hearing today?

11 A. That's correct.

12 Q. Did you have a hand in determining the surface  
13 and bottom hole locations of the proposed well?

14 A. Yes, I did.

15 Q. How were those determined?

16 A. Those were determined based upon trying to  
17 maximize the amount of pay that the horizontal well would  
18 encounter, in addition to being the legal locations.

19 Q. Okay. Did you review well data for other  
20 wells in the vicinity?

21 A. Yes. All of them.

22 Q. All publicly-available data?

23 A. Yes.

24 Q. And directing your attention again to Exhibit  
25 Number 10, what are the parameters that you used to

1 determine the porosity of the reservoir sand?

2 A. What I used for mapping purposes is a 10  
3 percent density cutoff. That's what this map is based  
4 upon.

5 Q. In your opinion, is a 10 percent porosity  
6 cutoff a good indicator for a productive horizontal well  
7 in the second Bone Spring sand?

8 A. At this point, yes.

9 Q. In your opinion, will the proposed well  
10 encounter pay, based on this 10 percent porosity along  
11 the entire length of the wellbore?

12 A. It will.

13 Q. Next I direct your attention to Exhibit Number  
14 11.

15 A. Exhibit 11 is an east/west cross-section,  
16 structural cross-section, across the Penny Pincher area.

17 Q. Is it intended to show the productive interval  
18 and the stratigraphic target for Bone Spring horizontal  
19 wells?

20 A. Yes, it is.

21 Q. In your opinion, is the overall target  
22 interval homogeneous?

23 A. The overall interval is homogeneous across  
24 that area, yes.

25 Q. In your opinion, are all four quarter/quarter

1 sections in the proposed 160-acre project area  
2 prospective in the second Bone Spring sand?

3 A. Yes, they are.

4 Q. Do you believe your opinion is supported by  
5 your Exhibit Numbers 10 and 11?

6 A. Yes.

7 Q. Could you explain why?

8 A. As you can see on the cross-section, I've got  
9 a well -- it's actually a vertical second Bone Spring  
10 producer there in Section 20 to the west. Then our pilot  
11 hole from the Penny Pincher Number 1 contains pay, as  
12 well as the Devon well in Section 22. As you can see  
13 from the cross-section, the horizontal target interval  
14 carries across the entire lease.

15 Q. And in your opinion, will the granting of  
16 Cimarex's application serve in the interest of  
17 conservation and preservation of waste?

18 A. Yes.

19 Q. Why do you hold that opinion?

20 A. By drilling a horizontal well, we'll recover  
21 many more reserves than individual 40-acre wells.

22 Q. Vertical wells?

23 A. Vertical wells. Yes.

24 MR. LARSON: Mr. Examiner, I move the  
25 admission of Exhibits 8 through 11.

1 MS. MUNDS-DRY: No objection.

2 EXAMINER BROOKS: Exhibits 8 through 11  
3 are admitted.

4 (Exhibits 8 through 11 were admitted.)

5 MR. LARSON: I'll pass the witness at this  
6 time.

7 EXAMINER BROOKS: Ms. Munds-Dry?

8 MS. MUNDS-DRY: Can I have just one  
9 minute, please?

10 EXAMINER BROOKS: Okay.

11 (A discussion was held off the record.)

12 MS. MUNDS-DRY: Good morning. Nice to see  
13 you again this morning.

14 THE WITNESS: Good morning.

15 CROSS-EXAMINATION

16 BY MS. MUNDS-DRY:

17 Q. If we could turn to your Exhibit Number 10.  
18 If I understand your testimony this morning, you said  
19 that you used a 10 percent density cutoff; is that  
20 correct?

21 A. For mapping purposes. Correct.

22 Q. And you show your structural cutoff here -- I  
23 think that says 50; is that right? My eyes are not so  
24 great this morning. That's closest to the proposed Penny  
25 Pincher Number 2?

1 A. Are you referring to the 50-foot contour?

2 Q. Is that what it says, that there's a 50-foot  
3 contour there?

4 A. The green line. Yes.

5 Q. Is that green? I'm sorry. It looks black on  
6 my copy.

7 A. Yeah.

8 MS. MUNDS-DRY: I'm a little puzzled by  
9 this. May I approach, Mr. Examiner?

10 EXAMINER BROOKS: You may.

11 Q. (By Ms. Munds-Dry) Mr. Catalano, did you  
12 testify as the geologist in Case Number 14418?

13 A. I did.

14 Q. And is this -- what I've handed you, what's  
15 been marked as Lynx Exhibit Number 3, the Net Porosity  
16 Isopach Map that you prepared for that hearing?

17 A. Yes, it is.

18 Q. If we compare your -- I believe it was marked  
19 Exhibit Number 12 in that case and your Exhibit Number 10  
20 in this case -- I notice a few differences. For example,  
21 do you see in Section 21, which is the subject of this  
22 hearing, your contour line that's marked 50? Do you see  
23 that?

24 A. Yes.

25 Q. And that appears to have shifted down --

1 A. It has.

2 Q. -- into this section; is that correct?

3 A. That's correct.

4 Q. And I also note here that in Section 22 you  
5 have a contour line that's marked 100 that's also  
6 shifted; is that correct?

7 A. Yes.

8 Q. Just out of curiosity, there appears to be  
9 more detail on your Exhibit Number 12 than your Exhibit  
10 Number 10 in this case. Was there a reason for that?

11 A. No. This exhibit you're looking at today is a  
12 revised map based upon the results of the Penny Pincher  
13 Number 1 and my re-interpretation of the data in the  
14 area.

15 Q. I see. Are you familiar with the Marbob Top  
16 Dollar Well that's in Section 16? I believe it's in the  
17 southwest quarter.

18 A. Yes.

19 Q. In fact, I think, if I'm correct, in Case  
20 Number 14418, you used that as a control well on that  
21 map; is that correct?

22 A. And it's used on this map, too, as a control.  
23 It's 34 there in Section 16.

24 Q. Okay. But you didn't use that in your  
25 cross-section; is that correct?

1           A.     No. I didn't feel like it was pertinent. It  
2 wasn't pertinent to what we are trying to show today.

3           Q.     Are you familiar with the second sand Bone  
4 Spring test that was done in the Marbob Top Dollar Well?

5           A.     Yes.

6           Q.     But you did not feel that that was pertinent;  
7 is that correct?

8           A.     No.

9           Q.     Why is that?

10          A.     I have a well control point now that's only 40  
11 acres away from this proposed well that we're going to  
12 drill.

13          Q.     Yet you used this well here, Number 47, that  
14 is what, almost two miles away, instead of the Marbob?

15          A.     Correct. What I'm trying to show with my  
16 cross-section -- I think I testified to that -- is the  
17 continuity of the productive sand across Section 21. So  
18 an east/west cross-section was appropriate to show that.

19          Q.     I see. Mr. Catalano, do you know if it was  
20 the same sand that was tested in the Marbob Well that is  
21 the target in the Penny Pincher Well Number 1?

22          A.     It would be within the same interval.

23          Q.     So it was in the same sand; is that correct?

24          A.     It was in the same interval.

25                   MS. MUNDS-DRY: No further questions.

1 Thank you.

2 EXAMINATION

3 BY EXAMINER BROOKS:

4 Q. Okay. Mr. Catalano, Exhibit Number 12 that  
5 was tendered by Lynx, that is a previous structure --  
6 previous isopach map that you drew?

7 A. Yes, sir.

8 Q. That was admitted in evidence in the previous  
9 case involving this section?

10 A. Yes, sir.

11 Q. I had one question that I should have asked  
12 preliminary to that. Exhibit Number 9 here is your  
13 structure map. What is the significance of structure  
14 with regard to this prospect?

15 A. It's important -- as far as trapping, it  
16 doesn't matter. It's important only when you drill your  
17 directional well to have an idea of what the dip is for  
18 steering purposes.

19 Q. Okay. Would it make any difference -- would  
20 the structure make any difference in telling you whether  
21 this well would be better developed by north/south or by  
22 east/west or some other pattern?

23 A. No.

24 Q. I didn't think so. But I wanted to be sure,  
25 since I'm not a geologist.

1 A. The trap is a stratigraphic trap.

2 Q. Okay. Then looking at your Exhibit 10 and  
3 Exhibit 12 that was shown, if you -- now, the Penny  
4 Pincher Number 1 has been drilled?

5 A. The pilot hole has been drilled.

6 Q. Okay. The lateral has not been drilled?

7 A. We have a rig moving in this week, actually.

8 Q. Okay.

9 A. We're using a different rig to drill the  
10 lateral.

11 Q. You're going to be back here next week to  
12 present that case to the Commission?

13 A. Apparently.

14 Q. Okay. That's what I thought.

15 When you drilled the pilot hole-- well, first  
16 of all, these bold numbers that are on Exhibit Number 10,  
17 are those feet of pay?

18 A. Correct.

19 Q. That were encountered in particular wells?

20 A. Correct.

21 Q. So since the Penny Pincher Number 1 is within  
22 the circle that's marked 75, which, if I interpret the  
23 map correctly, that means it was predicted to be above  
24 75?

25 A. 75 or greater.

1 Q. Right. And it ended up being 32?

2 A. Right, using a 10 percent cutoff.

3 Q. I'm not surprised that you re-drew your map  
4 under these circumstances.

5 A. Correct.

6 Q. As was discussed in the previous hearing, you  
7 really don't have a lot of wells here to work with;  
8 right?

9 A. That's correct. That's the first well in  
10 Section 21 that gave us control, actually.

11 Q. So what is the basis for your drawing that 50  
12 contour line as going -- what's the basis for the hump  
13 between Section 21 and into Section 20 in that 50-foot  
14 contour line?

15 MR. LARSON: Which exhibit are you  
16 referring to, Mr. Examiner?

17 Q. If you look at Section 21, this 50-foot  
18 contour line goes across Section 21 and into Section 20;  
19 right?

20 A. Correct.

21 Q. It goes on a -- something approaching a  
22 north/northwest direction?

23 A. In Section 20 there?

24 Q. Through Section 21, and then it turns sharply  
25 southward in Section 20. That's what I'm calling the

1 hump. What's the basis for drawing that hump, as opposed  
2 to drawing it straight along, since you have a 32 point  
3 in 21 and you have a 36 point in 20?

4 A. Just bringing it in closer to that well.

5 Q. No. Further south across 21, since you  
6 obviously see it as going far south in 20, what's the  
7 basis for the particular shape that you've drawn there?

8 A. This is part of a larger regional map that I  
9 constantly update every time wells are drilled, so my  
10 interpretation changes as new data, you know, comes  
11 about. And like I said, it's part of a bigger  
12 depositional system. I have other control that is  
13 influencing this.

14 Q. I'm just curious as to why you think that  
15 the -- well, why you think that the -- because it doesn't  
16 seem to be obvious, based on the points you have, why you  
17 think that the structure becomes thicker that quickly as  
18 you move from north to south in Section 21, as opposed to  
19 being more concentrated to the south.

20 A. I don't know, frankly.

21 Q. Okay. That's a good answer.

22 A. I don't know. That's my best estimate.

23 Q. That's not an answer that you often get from  
24 geologists.

25 EXAMINER BROOKS: Okay. That's all I

1 have. Mr. Warnell.

2 EXAMINATION

3 BY EXAMINER WARNELL:

4 Q. Mr. Catalano, I just wanted to verify on the  
5 Number 1 well, you say that the vertical has been  
6 drilled?

7 A. Yes, sir.

8 Q. And you've released that rig?

9 A. Yeah. It wasn't capable of drilling the  
10 horizontal portion of the hole.

11 Q. So you drilled that well, the vertical  
12 section, you logged it. Did you plug it back then?

13 A. We set casing, and it's -- all we've got to do  
14 now is go in and cut a window and take off -- build our  
15 curve.

16 Q. And none of the other wells have been spudded  
17 or drilled?

18 A. No, sir.

19 Q. The other three wells.

20 EXAMINER WARNELL: I have no further  
21 questions.

22 EXAMINER BROOKS: Mr. Larson?

23 MR. LARSON: No further questions for Mr.  
24 Catalano.

25 EXAMINER BROOKS: Very good. You may

1 stand down.

2 MR. CATALANO: Thank you.

3 EXAMINER BROOKS: You may call your next  
4 witness.

5 MR. LARSON: Mr. Swain.

6 MICHAEL SWAIN

7 Having been first duly sworn, testified as follows:

8 DIRECT EXAMINATION

9 BY MR. LARSON:

10 Q. Please state your full name for the record.

11 A. Michael Swain.

12 Q. Where do you reside?

13 A. Midland, Texas.

14 Q. By whom are you employed and in what capacity?

15 A. Cimarex Energy as a reservoir engineer.

16 Q. And please summarize your professional  
17 experience.

18 A. I've worked eight years as a reservoir  
19 engineer in the industry.

20 Q. And how long with Cimarex?

21 A. Six years.

22 Q. And what is your focus as a reservoir  
23 geologist for Cimarex?

24 A. Reservoir engineer.

25 Q. Okay. I'm sorry.

1           A.     I do economic and reserve analysis, and I also  
2 do drilling and completed plans for wells in southeast  
3 New Mexico.

4           Q.     And did you have a role in evaluating  
5 prospects for the horizontal well proposed in this  
6 application?

7           A.     Yes, I did.

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

10          A.     Yes, I have.

11          Q.     Were you qualified as expert in petroleum  
12 engineering in that hearing?

13          A.     Yes.

14          Q.     Do you recall the case number?

15          A.     Case 14418.

16                   MR. LARSON: Mr. Examiner, I move that Mr.  
17 Swain be qualified as an expert in petroleum engineering.

18                   MS. MUNDS-DRY: No objection.

19                   EXAMINER BROOKS: So qualified.

20                   While we're interrupted here, a question that  
21 I didn't -- was Exhibit 12 admitted in evidence?

22                   MS. MUNDS-DRY: Lynx Exhibit Number 3?

23                   EXAMINER BROOKS: Yeah.

24                   MS. MUNDS-DRY: I should have moved to  
25 admit it with Mr. Catalano, but I can also wait until Mr.

1 Scott.

2 EXAMINER BROOKS: Okay.

3 MS. MUNDS-DRY: Would you like me to move  
4 to admit it?

5 EXAMINER BROOKS: Yes, since it has  
6 already come up.

7 MS. MUNDS-DRY: We move to admit Lynx  
8 Exhibit 3 into evidence.

9 EXAMINER BROOKS: Lynx Exhibit Number 3 is  
10 admitted. I'm just going to X out "Exhibit 12" on here  
11 and suggest that the reporter do the same on the original  
12 so we won't get confused.

13 Okay. You may continue then, Mr. Larson.

14 (Exhibit 3 was admitted.)

15 Q. (By Mr. Larson) Did you hear Mr. Catalano's  
16 testimony that all four quarter/quarter sections in the  
17 proposed project area will be prospective in the second  
18 Bone Spring sand?

19 A. Yes.

20 Q. Do you agree with that opinion?

21 A. Yes.

22 Q. What is the basis for your opinion?

23 A. Based on my experience, each 40-acre tract has  
24 sufficient net pay to produce hydrocarbons in economic  
25 quantity.

1 Q. I'll direct your attention to Cimarex Exhibit  
2 Number 4.

3 Mr. Compton testified that you prepared this  
4 AFE; is that correct?

5 A. Yes, I did.

6 Q. In your opinion, are the costs stated for  
7 drilling and completing the proposed well in line with  
8 the costs of other horizontal wells that Cimarex has  
9 completed in this area of New Mexico?

10 A. Yes.

11 Q. Did you also hear Mr. Compton's testimony  
12 regarding the proposed administrative and supervision  
13 costs?

14 A. Yes.

15 Q. In your opinion, are those costs reasonable  
16 and in line with the costs for similar horizontal wells  
17 that Cimarex has drilled in southeastern New Mexico?

18 A. Yes, they are.

19 Q. I direct your attention to Cimarex Exhibit  
20 Number 12. Would you identify this exhibit?

21 A. It's a drilling prognosis for the Penny  
22 Pincher 21 Fed. 2H.

23 Q. Did you prepare this?

24 A. Yes, I did.

25 Q. What was your purpose in preparing it?

1           A.     This document depicts the drilling plans for  
2 the Penny Pincher 21 2H.

3           Q.     I'd ask you to identify Exhibit Number 13.

4           A.     Yes.

5           Q.     What is this exhibit?

6           A.     This is a planned wellpath report for the  
7 Penny Pincher 2H.

8           Q.     Who prepared this exhibit?

9           A.     Baker Hughes, a directional well company.

10          Q.     Did Baker Hughes prepare this planned wellpath  
11 report at your direction?

12          A.     Yes, they did.

13          Q.     And does Exhibit 13 demonstrate that the  
14 proposed well is entirely in an orthodox location?

15          A.     Yes, it does.

16          Q.     In your opinion, will the proposed horizontal  
17 drilling technique yield higher economics than would the  
18 drilling of four vertical wells in each quarter/quarter  
19 section of the project area?

20          A.     Yes.

21          Q.     Why do you hold that opinion?

22          A.     Because you can drill one horizontal well to  
23 produce the same reserves as four vertical wells.

24          Q.     And why would it be more productive?

25          A.     Horizontal drilling, due to the exposure of

1 the reservoir, has shown to produce higher recovery  
2 factors than vertical wells.

3 Q. That's in your experience in drilling  
4 horizontal wells in Eddy County?

5 A. Yes, sir.

6 Q. And in your opinion, will the horizontal  
7 drilling technique recover oil that would not otherwise  
8 be recovered?

9 A. Yes, it would.

10 Q. If you could explain the basis for your  
11 opinion.

12 A. Horizontal drilling allows you to get much  
13 more exposure to the reservoir and allows for a lot more  
14 contact with the reservoir, thus allowing more reserves  
15 to be produced from each 40-acre tract along the  
16 wellpath.

17 Q. And in that regard, do you believe that the  
18 granting of Cimarex's application would serve the  
19 interest of conservation and the prevention of waste?

20 A. Yes, it will.

21 Q. And in your opinion, would the denial of the  
22 application violate Cimarex's correlative rights?

23 A. Yes, it would.

24 MR. LARSON: I move the admission of  
25 Exhibits 12 and 13.

1 MS. MUNDS-DRY: No objection.

2 EXAMINER BROOKS: 12 and 13 are admitted.

3 (Exhibits 12 and 13 were admitted.)

4 MR. LARSON: Pass the witness.

5 EXAMINER BROOKS: Ms. Munds-Dry?

6 CROSS-EXAMINATION

7 BY MS. MUNDS-DRY:

8 Q. Good morning, Mr. Swain. You just testified  
9 that the denial of the application would violate  
10 Cimarex's correlative rights. Could you explain the  
11 basis for that opinion?

12 A. We have interest in every spacing unit along  
13 the wellpath, and by not allowing us to drill and  
14 complete this well, we will not be able to recover those  
15 reserves underneath each 40-acre tract.

16 Q. I believe you testified, Mr. Swain, that you  
17 believe all four of the quarter/quarter sections in the  
18 proposed project area are prospective?

19 A. Yes, they are.

20 Q. Do you believe that each of the  
21 quarter/quarter sections will equally contribute to the  
22 project area?

23 A. No, ma'am, they won't.

24 Q. Why do you say that?

25 A. Based on the current mapping, wells with

1 higher net pay typically, in my experience, produce more  
2 oil than ones that have less net pay.

3 Q. What is the net pay that you're estimating to  
4 find in this proposed well?

5 A. It varies from the surface oil to the bottom  
6 hole of the well. Are you looking for the average along  
7 the wellbore?

8 Q. Let's go quarter section by quarter section.  
9 In the northwest, if we look at the northeast quarter of  
10 the northwest quarter, what do you estimate the net pay  
11 being in that quarter section?

12 A. Around 32 feet of pay.

13 Q. What about in the southwest quarter of the  
14 northwest quarter?

15 A. Somewhere between 30 and 50 feet of pay.

16 Q. Then as we go south, what about in the  
17 northeast quarter of the southwest quarter?

18 A. Over 50 feet of pay.

19 Q. And finally, in the southwest quarter of the  
20 southwest quarter?

21 A. Over 50 feet of pay.

22 Q. Cimarex plans to allocate on a straight  
23 acreage basis?

24 A. Yes.

25 Q. Did you perform any sort of volumetrics to

1 determine what the contribution will be of each  
2 quarter/quarter section?

3 A. Did I perform those?

4 Q. Did you prepare any volumetrics?

5 A. Not for this hearing, I did not.

6 Q. But did you prepare them?

7 A. Yes.

8 Q. But you did not provide them in this hearing?

9 A. No.

10 MS. MUNDS-DRY: No further questions.

11 Thank you.

12 EXAMINATION

13 BY EXAMINER BROOKS:

14 Q. Your estimates that you gave to Ms. Munds-Dry  
15 with regard to the feet of pay thickness in various  
16 quarter sections, is that based on Mr. Catalano's  
17 mapping?

18 A. Yes.

19 Q. Is it based on anything else?

20 A. No, sir.

21 EXAMINER BROOKS: Thank you. That's all I  
22 have.

23 EXAMINER WARNELL: I have no questions.

24 EXAMINER BROOKS: Mr. Larson?

25 MR. LARSON: I have no further questions

1 for Mr. Swain. I'd like to reserve the opportunity to  
2 call any of my witnesses back on rebuttal.

3 EXAMINER BROOKS: Okay. You may stand  
4 down.

5 You may call your witnesses for rebuttal.

6 Ms. Munds-Dry, would you like to make a  
7 statement?

8 MS. MUNDS-DRY: No, sir. We'd like to  
9 call our first and only witness.

10 EXAMINER BROOKS: Okay. You may call your  
11 witness.

12 MS. MUNDS-DRY: We'd like to call Mr.  
13 Scott, please.

14 LARRY SCOTT

15 Having been first duly sworn, testified as follows:

16 DIRECT EXAMINATION

17 BY MS. MUNDS-DRY:

18 Q. Good morning. Please state your full name for  
19 the record.

20 A. Larry R. Scott.

21 Q. And where do you reside?

22 A. Hobbs, New Mexico.

23 Q. And by whom are you employed?

24 A. Lynx Petroleum Consultants, Incorporated.

25 Q. What is your position with Lynx?

1           A.     I am the president and a part owner of the  
2 company.

3           Q.     Have you previously testified before the  
4 Division, and were your credentials made a matter of  
5 record and accepted?

6           A.     On numerous occasions.

7           Q.     Were you qualified as a petroleum engineer in  
8 the past?

9           A.     As well as a practical oilman.

10          Q.     Are you familiar with the application that has  
11 been filed by Cimarex in this case?

12          A.     Yes.

13                   MS. MUNDS-DRY: Mr. Examiner, we tender  
14 Mr. Scott as an expert witness in petroleum engineering.

15                   MR. LARSON: And not as a practical  
16 oilman?

17                   MS. MUNDS-DRY: We can throw that in, too.

18                   MR. LARSON: No objection.

19                   EXAMINER BROOKS: He is so qualified.

20                   MS. MUNDS-DRY: Thank you.

21          Q.     (By Ms. Munds-Dry) Mr. Scott, would you  
22 briefly summarize for the Examiners the basis for Lynx's  
23 objection to Cimarex's application today?

24          A.     Well, this is a continuation of their Penny  
25 Pincher project we objected to in a hearing back in

1 March. We felt like the subsurface control for data in  
2 the area was insufficient to determine an accurate  
3 allocation of the contributions of each 40-acre tract to  
4 the total recovery of the well.

5 They presented I guess what's now called  
6 Exhibit 12-3, and I presented my own map at that hearing,  
7 and they were awarded compulsory pooling. I believe that  
8 the additional data that has been made available to us by  
9 the Penny Pincher Number 1 vertical well and the  
10 associated electronic log essentially confirms my earlier  
11 case and comments with regard to the Penny Pincher Number  
12 1, and I believe that that inequity is greater than ever.

13 Q. Mr. Scott, what is Lynx's ownership in the  
14 proposed project area?

15 A. Well, we own interest in both the north half  
16 of Section 21, if I recall, about 4 percent, and  
17 approximately 9 percent in the south half of 21, and  
18 represent a large group of partners that essentially  
19 owned approximately 60 percent of the mineral leases in  
20 the south half of 21 in the Bone Spring.

21 Q. If you'll turn to what's been marked as Lynx  
22 Exhibit Number 1. Do you have that in front of you?

23 A. Yes.

24 Q. Identify and review that for the Examiners.

25 A. That is a structure map on the third Bone

1 Spring sand top and isopach sand contours on the second  
2 Bone Spring sand showing cross-plot porosity greater than  
3 10 percent.

4 Q. And I believe you identified the Penny Pincher  
5 Number 1 and the proposed Penny Pincher Number 2, 3 and  
6 4?

7 A. As we come west to east across Section 21, the  
8 Penny Pincher Number 1 is the westernmost well. The 2 is  
9 the next one to the east. The 3 is the next one to the  
10 east. And the 4 is the one on the far east side.

11 Q. If you would explain, first of all, your  
12 structural contour lines on the map here for the  
13 Examiners.

14 A. The control points, for example, one in  
15 Section 28 that indicates a minus 6,291, that  
16 substantially is similar to the structural contours  
17 provided by Cimarex on the second Bone Spring sand.

18 I mapped on the third sand in the area because  
19 I believe that that's a little more consistent pick  
20 available to us. But those are structural lines at the  
21 top of the third sand. The contour lines that are marked  
22 10, 20, 30, 40, 50, 60, are second sand isopach lines  
23 based on control points in the area.

24 Q. Do you generally agree with the structure map  
25 provided by Cimarex?

1 A. Yes.

2 Q. And what about their isopach map?

3 A. Well, I strongly disagree with the isopach  
4 that they've provided. A log on the Penny Pincher Number  
5 1 well using cross-plot --

6 MR. LARSON: Mr. Examiner, I object to any  
7 testimony about the log, and we request the opportunity  
8 to ask Mr. Scott about it.

9 EXAMINER BROOKS: Ms. Munds-Dry?

10 MS. MUNDS-DRY: I'm not sure I understand  
11 the basis for the objection that they object to the log.

12 MR. LARSON: It's proprietary information.

13 EXAMINER BROOKS: Well, I'm going to  
14 overrule the objection. You may continue. You may  
15 proceed. Perhaps it's a hearsay objection, but that's  
16 not admitted in any case. We need to get this testimony  
17 on the record, and we can appraise its value. You may  
18 proceed.

19 A. We provided a log section of the compensated  
20 neutron density log for the second Bone Spring sand in  
21 the Penny Pincher Federal Number 1. It's a little larger  
22 scale of the one that they provided.

23 Q. (By Ms. Munds-Dry) Mr. Scott, if I can  
24 interrupt you, is that marked as Lynx Exhibit Number 2?

25 A. Correct. And that log indicates neutron

1 density cross-plot porosity greater than 10 percent,  
2 which is admittedly somewhat perhaps more conservative  
3 than the Cimarex density porosity of 10 percent. That  
4 log indicates cross-plot porosity greater than 10 percent  
5 of only eight feet.

6 It would be my professional opinion that  
7 Cimarex has, in effect, drilled a dry vertical hole to  
8 the second Bone Spring sand at the Penny Pincher Number  
9 1.

10 Q. Now, you say that, even out of all fairness,  
11 understanding that that was their pilot hole?

12 A. Absolutely. That well would not be commercial  
13 in that 40-acre tract as a vertical well in the second  
14 Bone Spring sand.

15 I can offer some additional data with regard  
16 to a well that is just a northeast, offset to the Penny  
17 Pincher 2, that is the subject of this hearing.

18 Marbob, with me as a working interest, tested  
19 28 feet of density neutron cross-plot porosity greater  
20 than 10 percent with perforation and breakdown acid. The  
21 well was noncommercial in the second Bone Spring sand.  
22 The swab report on day two, after recovering tubing  
23 volume, was 500 feet of fluid entry with a skim of oil on  
24 the fluid.

25 The well was plugged back to higher zones with

1 no further stimulation. That well was very conveniently  
2 left off their cross-sections, but it is, in fact, the  
3 direct northeast offset to the surface location of the  
4 Penny Pincher Number 2.

5 Q. Mr. Scott, were you present for Mr. Catalano's  
6 testimony this morning?

7 A. Yes.

8 Q. Did you hear his testimony regarding why he  
9 did not use the Marbob Top Dollar Well in his analysis?

10 A. I am an engineer, not a geologist, and I tend  
11 to believe the datapoints that are closer to the spot  
12 where I'm considering drilling a well than those a mile  
13 and a half distant. That's why I consider the Top Dollar  
14 to be a significant data point. It's a diagonal offset.

15 Q. Let's go back to your Exhibit Number 1, if we  
16 could, for a moment. You indicated that the Penny  
17 Pincher Number 1 is shown in Section 21, I believe?

18 A. Yes.

19 Q. And I think you also indicated that that well  
20 has been force pooled?

21 A. Yes. Penny Pincher 1 was drilled pursuant to  
22 a force pooling order or compulsory pooling order  
23 R-13228, which was issued on March the 18th after a  
24 hearing.

25 MS. MUNDS-DRY: Mr. Examiner, I'd ask you

1 to take administrative notice of Order R-13228.

2 MR. LARSON: No objection.

3 EXAMINER BROOKS: So noticed.

4 Q. (By Ms. Munds-Dry) Mr. Scott, I have a copy  
5 of that order, and I can -- I have copies, if anyone is  
6 interested.

7 Would you review paragraph 11 on page 4 of  
8 that order?

9 A. Well, I believe that this is a legitimate  
10 statement. Few wells were drilled in the area. Control  
11 points were sparse. But the Division deemed, after the  
12 hearing, that Cimarex's technical presentation was the  
13 more convincing of the two presentations that were  
14 offered at that hearing.

15 Q. Mr. Scott, do you have in front of you what's  
16 been marked as Lynx Exhibit Number 3?

17 A. Yes, I do. That's their isopach map on the  
18 second sand that required revision as a result of the  
19 drilling and logging of the Penny Pincher Number 1.

20 I'd like to put also in the record that while  
21 my Exhibit 1 contains more detail than the map that was  
22 presented at that Number 1 compulsory pool hearing, it  
23 required no revision with regard to Bone Spring sand  
24 thickness.

25 Q. And on that Lynx Exhibit Number 3, what was

1 the feet of pay that was indicated by Cimarex in that  
2 former hearing?

3 A. Greater than 75 feet through all four  
4 quarter/quarter sections in the west half/west half.

5 Q. I believe you've testified to this, but just  
6 to make it clear for the record, on your Exhibit Number  
7 2, how much feet of pay does that log indicate?

8 A. Eight.

9 Q. I'm Sorry. Eight feet?

10 A. Eight feet.

11 EXAMINER WARNELL: What depth are you  
12 basing that on?

13 Q. (By Ms. Munds-Dry) Mr. Scott, for the  
14 Examiners, if you could show the depth.

15 A. The sand in question would be right across  
16 8,900 feet.

17 EXAMINER WARNELL: Okay.

18 Q. (By Ms. Munds-Dry) Based on your review of  
19 Exhibit Number 1, Exhibit 2 and Exhibit 3, what is your  
20 technical opinion as to the commerciality of the second  
21 Bone Spring in the north half of Section 21?

22 A. A strong case can be made with the best data  
23 that's available, being the Penny Pincher 1 log and the  
24 Top Dollar test, that the north half of Section 21 is  
25 barren or very nearly barren of cross-plot Bone Spring

1 second sand porosity greater than 10 percent, and that is  
2 is so shown on my isopach map.

3 Q. Were you present this morning for Mr. Swain's  
4 testimony?

5 A. Yes.

6 Q. And I believe Mr. Swain testified -- and I  
7 don't mean to try to characterize his testimony -- that  
8 he believed all four quarter/quarter sections were  
9 prospective. Do you agree with his testimony?

10 A. The vertical hole in the Penny Pincher Number  
11 1 is a dry hole. The vertical hole in the northeast of  
12 the northwest is between the Penny Pincher Number 1 and  
13 the Top Dollar Number 1, which tested the second Bone  
14 Spring sand as noncommercial.

15 I have to believe that there is a strong  
16 technical argument to be made for that quarter/quarter  
17 section to also be barren or very nearly so.

18 Q. Mr. Scott, what opinion do you have in terms  
19 of Cimarex's application for forced pooling in this  
20 nonstandard spacing unit, if it were granted, what effect  
21 would it have on Lynx's correlative rights?

22 A. I can understand why Cimarex wants -- looking  
23 at my map and the data available to us, I can certainly  
24 understand why Cimarex is wanting to go north to south  
25 with this horizontal, as opposed to east to west, because

1 it appears as though the north half may be marginally  
2 productive, at best.

3 But the flip side of that is the compulsory  
4 pooling order on the Number 1 well pooled on a straight  
5 acreage basis. And that is an egregious infringement of  
6 correlative rights because it does not appear from the  
7 technical data that those 40s are anywhere near  
8 comparable in productivity.

9 Q. What is your opinion on the Division granting  
10 the application to form a nonstandard spacing unit in  
11 this case?

12 A. The Division formed -- took four 40-acre  
13 proration units and formed a 160-acre nonstandard  
14 proration unit utilizing very limited data to allocate  
15 production on a straight acreage basis.

16 This is more in tune -- rather than the  
17 compulsory pooling statute, it is more in tune with the  
18 unitization statutes, where multiple individual proration  
19 units are combined to form a single unit. And, in fact,  
20 the word "unit" was used several times in the order that  
21 was issued for the Penny Pincher Number 1.

22 Unitization statutes do -- now, under  
23 compulsory pooling, there is no provision for allocation  
24 of production on any other than a straight acreage basis.  
25 Under unitization, the best available geological data is

1 utilized to determine participation factors for each  
2 tract. And in this case, that is certainly more  
3 applicable than allocation on straight acreage.

4 Q. Mr. Scott, in Case 14418, what did Lynx  
5 request in terms of allocating production?

6 A. We asked for individual well tests. We asked  
7 for each separate interval to be tested to determine its  
8 total contribution to the horizontal well.

9 Q. How did the Division respond to that request?

10 A. The Division found in their order that that  
11 was not practicable. The Cimarex folks sort of ad hoc  
12 estimated that individual tests along that horizontal  
13 interval would cost somewhere on the order of a million  
14 dollars.

15 Now, I dispute that number, but I don't have  
16 any hard facts to dispute it because I don't know that  
17 it's ever been done. But it's possible, given my  
18 experience with Cimarex as a very high-cost operator,  
19 that they could spend the million dollars getting those  
20 individual 40s tested. That is a possibility that I have  
21 to conceive.

22 There are other remedies that might be  
23 available to us. I mean, Cimarex has proposed four wells  
24 in here. If we set the surface location of one of these  
25 in the south half and log it, they can determine porosity

1 feet of pay in the south half of the section and the  
2 north half of the section at no additional cost, and  
3 allocate on the basis of interpolated data between the  
4 points that are available to us.

5           It's important for me to note that I stand to  
6 lose here, possibly either way, because I own interest in  
7 the north half also. What I'm interested in is, win or  
8 lose, the most accurate allocation that we can come to on  
9 these projects.

10           Q.     Mr. Scott, what you propose as an alternative  
11 here this morning, do you recommend that be a condition  
12 of any order that results in this case if the application  
13 is granted?

14           A.     Absolutely.

15           Q.     Based on the information and the testimony  
16 that you provided here today, what are your engineering  
17 conclusions?

18           A.     Well, my engineering conclusions are that  
19 Cimarex's original maps are inaccurate. They  
20 misrepresented what they found on the ground, and that  
21 the maps that I prepared for that first hearing and that  
22 are presented here certainly did not need to be modified,  
23 other than to add additional detail. And there's simply  
24 not a sufficient amount of data to even reasonably ensure  
25 that correlative rights are being protected.

1 Q. With that, I'll ask you to put your practical  
2 hat on and provide for the Examiners your summary of what  
3 alternative or option you recommend be made a condition  
4 of the order.

5 A. Let's drill a vertical hole in the south half  
6 and log it.

7 Q. What cost do you estimate for that option?

8 A. None. They're going to do that anyway. Maybe  
9 some paperwork to change the location.

10 Q. Mr. Scott, were Lynx Exhibits 1 and 2 either  
11 prepared by you or under your direct supervision?

12 A. Yes.

13 MS. MUNDS-DRY: Mr. Examiner, we move the  
14 admission into evidence of Lynx Exhibits 1 and 2.

15 MR. LARSON: Same basis for my objection  
16 on the proprietary nature of the exhibit. I object to  
17 it. I have no objection to Exhibit 1.

18 EXAMINER BROOKS: I believe that at this  
19 point, any objection in proprietary has been effectively  
20 waived by the use of this log data in preparation of  
21 evidence that has been presented to us at the instance of  
22 Cimarex, so I will overrule the objection.

23 MR. LARSON: Mr. Examiner, Cimarex did not  
24 release this data.

25 EXAMINER BROOKS: But clearly Mr. Catalano

1 used this in preparation of his exhibit, and it was  
2 furnished, apparently, to Lynx. Perhaps it was furnished  
3 to Lynx under a protective order, although I didn't sign  
4 one. But anyway --

5 THE WITNESS: I can explain, if that  
6 helps.

7 EXAMINER BROOKS: It probably would help  
8 for the record.

9 THE WITNESS: Several people that normally  
10 are in my group of working interest owners, Mr. Examiner,  
11 participated in this well and requested the technical  
12 data that they were entitled to with that participation.  
13 They forwarded that to me for review for these additional  
14 projects that have been proposed because they are  
15 considering participating in them also.

16 EXAMINER BROOKS: Does anybody have any  
17 follow-up questions for Mr. Scott, in view of his  
18 response to my question?

19 MS. MUNDS-DRY: Mr. Brooks, I would just  
20 add -- and I can't tell what portion of the log -- but  
21 there was a portion of the log that Cimarex used in it's  
22 Exhibit Number 11.

23 EXAMINER BROOKS: That is what I thought.  
24 but I wasn't sure.

25 Mr. Larson. did you have any questions to ask

1 this witness?

2 MR. LARSON: Which parties provided you  
3 with this information?

4 THE WITNESS: Am I obligated to say?

5 MS. MUNDS-DRY: I think you have to answer  
6 that question.

7 EXAMINER BROOKS: Yes, I believe you do.

8 THE WITNESS: Mr. Gil Moutray provided  
9 that.

10 MR. LARSON: What company is he associated  
11 with?

12 THE WITNESS: Seven Rivers, Inc.

13 MR. LARSON: Did Mr. Moutray tell you that  
14 Cimarex gave him permission to give the data to you?

15 THE WITNESS: He did not.

16 MR. LARSON: That's all I have.

17 EXAMINER BROOKS: I believe that Mr.  
18 Scott's testimony establishes a further basis for waiver  
19 in that one of the owners of the alleged proprietary  
20 information has, in fact, made it available to a third  
21 party, so I will again overrule the objection. Lynx  
22 Exhibits 1 and 2 will be admitted.

23 (Exhibits 1 and 2 were admitted.)

24 MS. MUNDS-DRY: That concludes my direct  
25 examination of Mr. Scott.

1 EXAMINER BROOKS: Mr. Larson?

2 MR. LARSON: Can I have about five  
3 minutes?

4 EXAMINER BROOKS: Let's take a 15-minute  
5 recess.

6 (A recess was taken.)

7 EXAMINER BROOKS: Are we ready to resume?

8 MR. LARSON: I am, Mr. Examiner.

9 EXAMINER BROOKS: Back on the record in  
10 Case Number 14480. I believe that we had tendered Mr.  
11 Scott for cross-examination by Mr. Larson.

12 MR. LARSON: Thank you, Mr. Examiner.

13 CROSS-EXAMINATION

14 BY MR. LARSON:

15 Q. Good morning, Mr. Scott. What is the basis  
16 for your use of a 10 percent cross-plot porosity cutoff,  
17 instead of Mr. Catalano's 10 percent density cutoff?

18 A. It's a little more conservative. And I have  
19 25 years of experience with vertical Bone Spring wells in  
20 the area, and that appears to be a pretty reasonable  
21 number.

22 Q. I believe you mentioned that you testified in  
23 Case 14418?

24 A. Um-hum.

25 Q. And during that case, Mr. Catalano also used a

1 10 percent density cutoff; did he not?

2 A. In reviewing that documentation today, I do  
3 see that he did.

4 Q. Did you object to his use or disagree with his  
5 use --

6 A. I don't guess I realized that he wanted to  
7 disregard that compensated neutron log data when -- in  
8 that first round of testimony, I guess I assumed that he  
9 was using cross-plot porosity, apparently incorrectly.

10 Q. Did he have the data back in February, during  
11 that hearing?

12 A. I didn't look at any logs back in that  
13 hearing. No, sir. I believe it was noted on his  
14 exhibits, though, that it was density porosity.

15 Q. To your knowledge, had the well been drilled  
16 before the hearing in February? The vertical well.

17 A. No.

18 Q. So you'd agree with me that he didn't have  
19 that data at that time?

20 A. I would agree.

21 Q. To your knowledge, you don't recall  
22 disagreeing with Mr. Catalano's use of the 10 percent  
23 density cutoff in that hearing?

24 A. I don't recall disagreeing with it.

25 Q. I'm going to refer you now to -- I'm sorry.

1 I've got too much paper. It's Cimarex Exhibit Number 10.  
2 It's the isopach. The exhibit number is down in the  
3 lower right-hand corner of the exhibit.

4 A. Got it.

5 Q. Okay. Are you familiar with the Federal  
6 Hanson Number 1 well in Section 20?

7 A. Yes.

8 Q. And on Mr. Catalano's isopach exhibit, he  
9 shows 36 as the number of pay on that well. Do you think  
10 that's a reasonable number?

11 A. My map had 34 feet, so he's certainly in the  
12 ballpark.

13 Q. Are you aware that that vertical well produced  
14 100,000 barrels?

15 A. Yes.

16 Q. So you reviewed that data?

17 A. Yes, I have.

18 Q. And I'd next refer you to Number 32 on Exhibit  
19 10.

20 A. Got it.

21 Q. And using the 10 percent density cutoff  
22 utilized by Mr. Catalano --

23 A. I would have to --

24 MS. MUNDS-DRY: Please wait until he's  
25 done.

1 THE WITNESS: Okay.

2 Q. (By Mr. Larson) Using the 10 percent density  
3 cutoff utilized by Mr. Catalano, do you think the 32 is a  
4 reasonable number?

5 A. Yes, I would.

6 Q. And has Lynx or any of its partners submitted  
7 a permanent application to drill a well in the proposed  
8 project area?

9 A. No.

10 Q. Have you ever attempted to drill a well?

11 A. It's an area we have some interest in. I have  
12 one well immediately to be drilled in that area. But  
13 we're taking a somewhat different approach with regard to  
14 prevention of waste than are the folks at Cimarex, in  
15 that we are not convinced that the horizontal technology  
16 is the panacea that it's being made out to be.

17 Q. When you say, "the area," do you mean the  
18 160-acre project area?

19 A. No, no, not in this immediate vicinity. We're  
20 back to the north and east.

21 Q. If I understand correctly, if Cimarex's  
22 application is granted, you would ask that reserves be  
23 allocated based solely on each quarter section's  
24 contribution, rather than acreage within the project  
25 area?

1           A.       What I'm asking for is that this horizontal  
2 project allocate the production to each 40-acre proration  
3 unit on the basis of the best available data that's out  
4 there.

5           Q.       Okay. You wouldn't have it based on  
6 production? You'd have it based on available data now?

7           A.       Well, obviously if we could get tests of each  
8 individual 40, we'd base the allocation on production.

9           Q.       And are you aware of any provision in the Oil  
10 and Gas Act that would give the Division the authority to  
11 require that kind of allocation?

12          A.       The unitization statute does, in fact, allow  
13 that kind of allocation.

14          Q.       Anything in the Division's rules?

15          A.       I'm not an expert on the Division's rules.

16          Q.       I understand you're not an attorney. Are you  
17 aware of any Division order that's required that type of  
18 allocation?

19          A.       With regard to unitization, yes.

20          Q.       With regard to compulsory pooling?

21          A.       I'm not aware of any.

22          Q.       And I believe you testified you had a -- is it  
23 a 60 percent legal interest in the south half of the  
24 160-acre project area?

25          A.       No, sir. People that I would normally

1 represent have approximately a 60 percent interest.

2 That's correct.

3 Q. Who you would normally represent? Could you  
4 explain what you mean by that?

5 A. I've been operating in southeast New Mexico  
6 for 30 years now with a group of local businessmen and  
7 independent producers that I would normally consider my  
8 group. A large number of these people are people that I  
9 brought into this acreage position and that have been  
10 participating with me for -- since I've been in business.

11 Q. And have any of those people informed Cimarex  
12 that they want to participate in this well?

13 A. Yes. A couple of them.

14 Q. Who's that?

15 A. I think Marbob did, Wes Perry, Gil Moutray.  
16 There may be a couple of others that I'm not aware of.

17 Q. Do you know the percentage of their interest  
18 in the south half?

19 A. Generally it would be very small.

20 MR. LARSON: Pass the witness.

21 EXAMINATION

22 BY EXAMINER BROOKS:

23 Q. Okay. I don't know much about log  
24 interpretation. Fortunately, I have a Technical Examiner  
25 who's an expert on it.

1           But the difference between the 32 feet that  
2 Mr. Catalano came up with from the log data in the  
3 vertical pilot hole of the Penny Pincher Number 1 and the  
4 eight feet that you came up with, I gather, is a  
5 difference in the method used to interpret the logs; is  
6 that correct?

7           A.     That log that you have in front of you has two  
8 curves on it, Mr. Examiner.

9           Q.     Okay.

10          A.     One curve is the compensated neutron log.

11          Q.     Okay. Now --

12          A.     And the neutron porosity would be the dashed  
13 line, according to that legend at the bottom.

14          Q.     Now, you're referring to Lynx Exhibit Number  
15 2?

16          A.     That is correct.

17          Q.     And the dashed line -- it looks to me like  
18 there's a dashed red line that goes up and down.

19          A.     No, no. We are over on the far right-hand  
20 side. There are three curves.

21          Q.     Yeah, I see the three curves.

22          A.     One of those is --

23          Q.     These are all blue; right? No. Well, you're  
24 talking about -- are you talking about the three curves,  
25 the red one that appears to be real straight, and then

1 the wavy red one and then the blue one?

2 A. No, sir.

3 Q. Are you talking about the three blue ones that  
4 appear to be --

5 A. There's a blue and a couple of blacks over on  
6 the far right-hand side.

7 Q. They appear to be intertwined. They sometimes  
8 coincide and sometimes depart from --

9 A. That is correct. There are two different  
10 tools measuring porosity on those curves. And then the  
11 third curve is the cross-plot of those two tools, which  
12 is generally accepted to give a more accurate  
13 representation of the actual porosity than either of the  
14 tools by themselves.

15 Q. And the cross-plot is what you used to develop  
16 your -- to come up with your feet of pay --

17 A. Yes, sir.

18 Q. -- conclusion?

19 But you used the same cutoff, 10 percent  
20 porosity cutoff?

21 A. That is correct, both in the last hearing and  
22 this hearing and on all of the maps that I've presented.

23 Q. Did Mr. Catalano use only one of those  
24 tracers?

25 A. That's correct. He used the density curve

1 only, apparently.

2 Q. And you believe, I take it, that using the  
3 cross-plot produces a more accurate result?

4 A. Yes, I do.

5 Q. Okay. Now, you referred to a well -- was it  
6 the Top Dog or the Top Dollar?

7 A. Top Dollar.

8 Q. Okay. Looking at Mr. Catalano's Cimarex  
9 Exhibit Number 10, there are a couple of well symbols up  
10 in Section 16 that are above -- you said the Top Dollar  
11 was an offset to the proposed Number 2; is that correct?

12 A. Yes, sir. In fact, it's the gas well symbol  
13 immediately to the left of the 34 foot number on the  
14 exhibit.

15 Q. The 34 foot -- yeah. Okay. That's a little  
16 ambiguous because there's several spots on here. I want  
17 to be sure I know where I'm talking about.

18 Is it in the southeast of the southwest of 16,  
19 or is it in the northeast of the -- I mean the southwest  
20 of the southeast?

21 A. That's correct, southwest/southeast of Section  
22 16.

23 Q. It's in the southwest of the southeast of  
24 Section 16. So that would be the spot that looks to be  
25 south of the 34 number?

1           A.     No, sir. I believe it's the gas well symbol  
2 immediately to the left of the 34.

3           Q.     It's actually closer to the 34 number than  
4 that other spot is?

5           A.     That's correct.

6           Q.     And the other one, is that the one that the 34  
7 plot refers to?

8           A.     I'm not sure. I think that's a shallow well.  
9 It might be a Delaware test. I'm not positive.

10          Q.     Where is the well that the 34 number applies  
11 to?

12          A.     It's the gas well symbol immediately to the  
13 left of the 34.

14          Q.     So that 34 is Mr. Catalano's plot for the Top  
15 Dollar well?

16          A.     I believe that's correct.

17          Q.     What was your plot for the Top Dollar well?

18          A.     It's 28.

19          Q.     So as far as the porosity plot -- I mean the  
20 feet of pay plot, you weren't that far off from Mr.  
21 Catalano on that?

22          A.     Well, those logs will occasionally overlay.  
23 And when they do --

24          Q.     I understand. And down to 20, you were even  
25 closer?

1 A. Yes, sir. I believe that's correct.

2 Q. But you were quite far apart in the Penny  
3 Pincher Number 1?

4 A. That is also correct.

5 Q. You said the Top Dollar at 28 -- you plotted  
6 it at 28, and you said it was not commercial?

7 A. That is correct.

8 EXAMINER BROOKS: I think that really is  
9 all the questions I have for you. I have some questions  
10 for your attorney, but I think that's all the questions I  
11 have for you. Thank you.

12 Mr. Warnell may have some questions.

13 EXAMINATION

14 BY EXAMINER WARNELL:

15 Q. Let's go back again to the log.

16 A. Yes, sir.

17 Q. Around 8,900 feet?

18 A. That is correct.

19 Q. That's the second Bone Spring sand that's in  
20 question here?

21 A. Yes, sir. The top of that sand would be up  
22 there at approximately 8,734, and the base of the sand at  
23 9,146.

24 Q. In your view, what's causing that crossover in  
25 the density neutron?

1           A.       Generally, that is interpreted to be the  
2 hydrocarbon effect.

3           Q.       Gas effect?

4           A.       Yes.

5           Q.       If there was no gas there, strictly oil, then  
6 there wouldn't be a crossover effect and, indeed, you  
7 would normally expect --

8           A.       Not exactly correct, no. I've seen oil sands  
9 with crossover present also. It's a function of mud  
10 properties, the settings on the logging tools. There are  
11 some other factors that go into that.

12          Q.       But normally, would you say that neutron reads  
13 higher than the density in an oil-bearing sand?

14          A.       The neutron reads -- well, a gas effect or  
15 hydrocarbon effect tends to suppress the neutron log,  
16 thus creating the crossover.

17          Q.       So there are some old-timers out there that I  
18 know that probably don't rely that much on cross-plot  
19 porosity because of that negative gas effect on the  
20 neutron. So it's not uncommon for some of the old-timers  
21 to look at a density neutron and steer away from using  
22 cross-plot porosity and just go with the density?

23          A.       I guess the only answer that I would have for  
24 that is for years we've had density logs available and  
25 we've had neutron logs available, and no one runs an

1 individual tool without running the other in tandem.  
2 Cross-plot porosity has proven to be a very accurate  
3 predictor of being able to produce a sand. And that goes  
4 not only for the Bone Spring, but the Delaware down to  
5 Morrow.

6 Q. Is that the bottom of this log, 9,150 and a  
7 little bit deeper? How would you interpret that?

8 A. Which interval are we talking about here?

9 Q. At the bottom of the sand, 9,150. You see  
10 it's a lot tighter, but you've got a crossover.

11 A. Were they even logging at that point?

12 Q. It looks like their tool picked up way down  
13 there, about 9,200.

14 A. I would have no explanation. That's typically  
15 a limestone bank, occasionally productive.

16 Q. Do you know if this log was run on a limestone  
17 matrix or sandstone?

18 A. Almost all of the logs in this area would be  
19 run on limestone matrixes.

20 EXAMINER WARNELL: I have no further  
21 questions.

22 EXAMINER BROOKS: Ms. Munds-Dry, do you  
23 have anything?

24 MS. MUNDS-DRY: I have no redirect.

25 EXAMINER BROOKS: Mr. Larson?

1 MR. LARSON: Nothing further.

2 EXAMINER BROOKS: Very good. The witness  
3 may stand down.

4 Do you have a summation?

5 MR. LARSON: Actually, I'd like to call  
6 two rebuttal witnesses.

7 EXAMINER BROOKS: Very good. Call your  
8 witness.

9 MR. LARSON: First I'd like to call Mr.  
10 Compton.

11 REBUTTAL EXAMINATION

12 BY MR. LARSON:

13 Q. Mr. Compton, on your direct I neglected to ask  
14 you the percentage of the interest that Cimarex has  
15 throughout this 160-acre project area. And I'd like you  
16 to start at the northernmost quarter/quarter section and  
17 work your way south and tell me the percentage of  
18 interest Cimarex has in each quarter/quarter section.

19 A. We currently, as I sit here, own 81 percent of  
20 the northern quarter. We own 81 percent of the quarter  
21 below that. Moving into the south half, we own -- and  
22 the south half is all the same. The ownership is the  
23 same throughout the half section. We currently own 8.2  
24 percent, which was assigned to us by Marbob and EGL, and  
25 another 44 percent of the south half have signed

1 operating agreements.

2 So as we sit here today, 66.6 percent of the  
3 owners in the spacing unit have committed to the well,  
4 and that includes 52.2 percent of the south half owners.

5 Q. Kind of responding to the Hearing Examiner's  
6 question earlier, what do you mean by "ownership"?

7 A. The leasehold percentage ownership throughout  
8 the entire 160-acre spacing unit, currently 66.6 percent  
9 of it has been committed to the well, either by term  
10 assignments directly to us or by executing operating  
11 agreements with us, and that include 52.2 percent of the  
12 south half. The biggest member of the south half of that  
13 member being the Bass Group, who owns 40 percent of the  
14 south half.

15 Q. And when you say, "the Bass Group," that's a  
16 number of entities collectively referred to as the Bass  
17 Group?

18 A. Yeah. They change names fairly regularly.

19 Q. Basically under the control of Bass?

20 A. That's correct.

21 MR. LARSON: That's all I have, Mr.  
22 Examiner.

23 MS. MUNDS-DRY: I have no questions.

24 EXAMINER BROOKS: Okay. Just to clarify,  
25 the percentages you've just given are gross working

1 interest percentages?

2 THE WITNESS: That's correct.

3 EXAMINER BROOKS: That was my  
4 understanding. Thank you.

5 MR. LARSON: I'd like to call Mr. Swain.

6 REBUTTAL EXAMINATION

7 BY MR. LARSON:

8 Q. Mr. Swain, did you hear Mr. Scott's testimony  
9 that in his opinion, the vertical well drilled on the  
10 west half/west half of Section 21 is a dry well?

11 A. Yes, I did.

12 Q. Do you agree with that?

13 A. No, I do not.

14 Q. Can you explain why?

15 A. If you refer back to exhibit -- the net  
16 porosity isopach.

17 Q. Exhibit 10?

18 A. Yes, sir.

19 Q. -- you can see the Federal Hanson Well to the  
20 southwest, which has approximately 36 feet of pay and  
21 produced 100,000 barrels. And you can see how the Penny  
22 Pincher Number 1 location has 32 feet of pay, using a 10  
23 percent density cutoff, which is -- four feet of pay  
24 between the two wells is almost identical.

25 In my estimate, this vertical location should

1 be able to produce almost as much oil as the vertical  
2 location of the Hanson Federal.

3 Q. That's Number 36 in Section 20?

4 A. Yes, sir.

5 Q. And did you testify in Case 14418, which  
6 addressed the west half/west half as a project area, that  
7 the reserves were basically identical in each  
8 quarter/quarter section of the 160 acres?

9 A. Yes.

10 Q. As you sit here today, has that opinion  
11 changed?

12 A. No, sir, it has not.

13 Q. So based on this subsequently acquired log,  
14 you still believe that the reserves are functionally  
15 equivalent in each of those 40-acre sections?

16 A. Based on the data today, yes, I do.

17 MR. LARSON: Pass the witness.

18 EXAMINER BROOKS: Ms. Munds-Dry?

19 MS. MUNDS-DRY: I just have one or two  
20 questions.

21 EXAMINATION

22 BY MS. MUNDS-DRY:

23 Q. Mr. Swain, I believe you just testified that  
24 that Hanson Well in Section 20 has produced 100,000  
25 barrels?

1 A. 98,000 barrels.

2 Q. Roughly speaking?

3 A. Yes, ma'am.

4 Q. For the Penny Pincher Number 1, you also  
5 testified, I believe, that you are now estimating 32 feet  
6 of pay in that well?

7 A. Yes.

8 Q. And how many barrels of oil for the Penny  
9 Pincher Number 1 are you estimating per quarter/quarter  
10 section will be produced?

11 A. It's hard to predict, until the well is  
12 actually drilled and completed, how much they actually  
13 will produce.

14 Q. Do you recall the testimony in Case 14418?

15 A. Yes.

16 Q. And at that time, how much oil was being  
17 predicted per quarter/quarter section would be produced?

18 A. Around 75,000 barrels per quarter/quarter.

19 Q. You're saying at 36 feet of pay, the Federal  
20 Hanson produced 100,000, but in the Penny Pincher Number  
21 1, at the time you predicted 74,000 with 32 feet of pay?

22 A. Yes, I did.

23 MS. MUNDS-DRY: Thank you. No further  
24 questions.

25 EXAMINER BROOKS: Mr. Warnell, do you have

1 any questions?

2

EXAMINATION

3 BY EXAMINER WARNELL:

4 Q. Mr. Swain, I would be curious -- there seems  
5 to be a bit of a discrepancy between you and Mr. Scott on  
6 the porosity, whether it's density or cross-plot  
7 porosity. Do you have any comments on that?

8 A. Yes, sir. In our experience of drilling 15  
9 second Bone Spring horizontals and studying the other 35,  
10 plus second Bone Spring horizontal wells drilled in  
11 southeast New Mexico, and using extensive core data that  
12 we have acquired in other areas, a 10 percent density  
13 cutoff is a conservative indicator of porosity. Our  
14 analysis to date shows somewhere around an 8 to a 9  
15 percent density cutoff is probably the best porosity  
16 cutoff for this sandstone in this area.

17 Q. Do you have core data on the Number 1 well?

18 A. No, sir, we did not get core data on the  
19 Number 1. I have core data on offset wells in the same  
20 formation, the same second Bone Spring sand.

21 Q. That core porosity is pretty much in line with  
22 density porosity?

23 A. Yes, sir. We have oil saturations and  
24 sufficient perm in core plugs with density porosities as  
25 low as 8 percent to produce hydrocarbons.

1 EXAMINER WARNELL: I don't have any other  
2 questions. Thank you.

3 EXAMINER BROOKS: Ms. Munds-Dry, do you  
4 have any -- well, it's your witness. Do you have  
5 anything --

6 MR. LARSON: Nothing further.

7 EXAMINER BROOKS: Okay. Did you have  
8 anything in light of Mr. Warnell's questions?

9 MS. MUNDS-DRY: No, sir.

10 EXAMINER BROOKS: Okay. You may step  
11 down.

12 Now do you want to present a closing?

13 MR. LARSON: A brief closing,  
14 Mr. Examiner.

15 EXAMINER BROOKS: Go ahead.

16 MR. LARSON: Based on the evidence  
17 presented during today's hearing, I would submit that  
18 Cimarex has met its burden of proof, establishing its  
19 entitlement to all of the relief requested in this  
20 application.

21 I would further state that there is no basis  
22 in any statutory or regulatory provision for Mr. Scott's  
23 recommendation that the allocation of reserves be done on  
24 a percentage of ownership basis, rather than an acreage  
25 basis.

1 EXAMINER BROOKS: Okay. Ms. Munds-Dry,  
2 before you respond -- I assume you want to respond.

3 MS. MUNDS-DRY: Yes.

4 EXAMINER BROOKS: Before you respond, I am  
5 very concerned about the question if you are urging, as  
6 Mr. Scott did on the stand and as he did in the previous  
7 case, that the Division consider, in the event that it  
8 does issue a compulsory pooling order in this case,  
9 ordering the distribution of production in a method other  
10 than an acreage basis, I'd be very concerned about  
11 whether the Division would have the authority to do that.  
12 So with that, I'll let you respond.

13 MS. MUNDS-DRY: Mr. Brooks, I've been  
14 sitting here thinking about what I would say in closing,  
15 and I'll respond to your question briefly. But I think  
16 it might be helpful if you would allow us to submit  
17 written closing statements, because we are dealing with  
18 some fairly detailed legal positions.

19 EXAMINER BROOKS: I believe that's  
20 correct, that we're hearing intricate legal issues.

21 Would there be any objection to Ms. Munds-Dry  
22 submitting her closing in writing?

23 MR. LARSON: I would have no objection, if  
24 I have the opportunity to respond in writing.

25 EXAMINER BROOKS: You would have that

1 opportunity. If you wish to submit something in writing  
2 post-hearing, that's fine.

3 MS. MUNDS-DRY: I'll just say briefly that  
4 it has been Lynx's position, not only in the previous  
5 case but in this case, that the pooling statute addresses  
6 pooling for a spacing unit and not a project area, and  
7 that is where we go far afield. Because for whatever  
8 reason, the Division has allowed the formation of a  
9 nonstandard spacing unit, rather than a voluntary unit or  
10 some other mechanism, that would allow for appropriate  
11 allocation of production.

12 And we do not believe there is a basis for  
13 pooling if the applicant cannot prove that it would  
14 protect correlative rights and would prevent the waste of  
15 oil and gas, and we believe that has not been met in this  
16 case.

17 EXAMINER BROOKS: Obviously I don't  
18 disagree that that's a requirement for pooling, but go  
19 ahead.

20 MS. MUNDS-DRY: I would just say that the  
21 alternative that Mr. Scott has presented today in terms  
22 of drilling a vertical well and logging it and  
23 interpolating the data, as he suggested, which would be  
24 at no cost, as he testified, to Cimarex, adding that  
25 condition would protect correlative rights, which we

1 believe the Division has that duty to do.

2 In the previous hearing, as you may recall,  
3 the reason why Mr. Scott brought up the \$1 million figure  
4 was because in that Division order it was indicated that  
5 that would be a waste issue by being required to spend  
6 that much more money.

7 Now, Mr. Scott is requesting something that  
8 will be no extra cost and that could not, therefore, be  
9 considered a waste issue.

10 That's, in very brief summary, why we think  
11 there's a basis for denial of this application.

12 EXAMINER BROOKS: In terms of the powers  
13 of the Division, I assume you would comment in your  
14 written remarks on the impact of the Rutter & Willbanks.

15 MS. MUNDS-DRY: As you like to refer to as  
16 the Bartles and Jaymes case.

17 EXAMINER BROOKS: That's one of the  
18 reasons I took a recess, was to check and be sure I was  
19 calling the case correctly. Okay. If there's nothing  
20 further, then Case Number 14480 will be taken under  
21 advisement.

22 \* \* \*

23 I do hereby certify that the foregoing is  
24 a complete record of the proceedings in  
25 the Examiner hearing of Case No. \_\_\_\_\_,  
heard by me on \_\_\_\_\_.

\_\_\_\_\_, Examiner

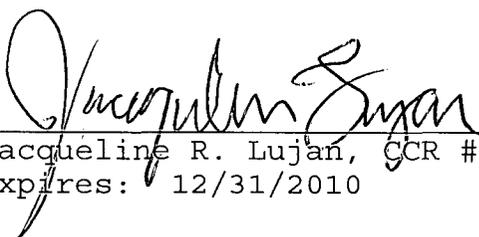
REPORTER'S CERTIFICATE

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I, JACQUELINE R. LUJAN, New Mexico CCR #91, DO  
HEREBY CERTIFY that on June 10, 2010, proceedings in the  
above captioned case were taken before me and that I did  
report in stenographic shorthand the proceedings set  
forth herein, and the foregoing pages are a true and  
correct transcription to the best of my ability.

I FURTHER CERTIFY that I am neither employed by  
nor related to nor contracted with any of the parties or  
attorneys in this case and that I have no interest  
whatsoever in the final disposition of this case in any  
court.

WITNESS MY HAND this 23rd day of June, 2010.

  
Jacqueline R. Lujan, CCR #91  
Expires: 12/31/2010