

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 CASE NO. 14507  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
CHAVES COUNTY, NEW MEXICO

APPLICATION OF CIMAREX ENERGY COMPANY CASE NO. 14508  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
CHAVES COUNTY, NEW MEXICO

APPLICATION OF COG OPERATING, LLC, CASE NO. 14500  
FOR DESIGNATION OF A NON-STANDARD SPACING  
UNIT AND FOR COMPULSORY POOLING, CHAVES  
COUNTY, NEW MEXICO

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: WILLIAM V. JONES, Technical Examiner  
MARK E. FESMIRE, Legal Examiner

July 22, 2010

Santa Fe, New Mexico

This matter came on for hearing before the  
New Mexico Oil Conservation Division, WILLIAM V. JONES,  
Technical Examiner, and MARK E. FESMIRE, Legal Examiner,  
on Thursday, July 22, 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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WITNESSES:

PAGE

Jan Spradlin:

Direct examination by Mr. Hall	9
Cross-examination by Mr. Bruce	25

Ted Gawloski:

Direct examination by Mr. Hall	28
Cross-examination by Mr. Bruce	38
Examination by Examiner Jones	38
Examination by Examiner Fesmire	44
Redirect examination by Mr. Hall	46
Rebuttal examination by Mr. Hall	71
Rebuttal cross-examination by Mr. Bruce	73

Barbara Slaton:

Direct examination by Mr. Hall	47
Cross-examination by Mr. Bruce	57
Examination by Examiner Jones	61
Examination by Examiner Fesmire	65

1	WITNESSES (Continued):	PAGE
2	Justin Zerkle:	
3	Direct examination by Ms. Munds-Dry	76
	Examination by Examiner Jones	86
4	Examination by Examiner Fesmire	87
	Redirect examination by Ms. Munds-Dry	87
5	Further examination by Examiner Fesmire	89
6	Robert Martin:	
7	Direct examination by Ms. Munds-Dry	90
	Cross-examination by Mr. Bruce	97
8	Examination by Examiner Jones	97
	Examination by Examiner Fesmire	100
9	Hayden Tresner:	
10	Direct examination by Mr. Bruce	101
11	Cross-examination by Mr. Hall	116
	Cross-examination by Ms. Munds-Dry	121
12	Examination by Examiner Jones	123
	Redirect examination by Mr. Bruce	124
13	Ralph Worthington:	
14	Direct examination by Mr. Bruce	126
15	Cross-examination by Mr. Hall	135
	Examination by Examiner Jones	137
16	Examination by Examiner Fesmire	142
17	Jason Lautenschleger:	
18	Direct examination by Mr. Bruce	143
	Cross-examination by Mr. Hall	149
19	Cross-examination by Ms. Munds-Dry	151
	Examination by Examiner Jones	152
20	Examination by Examiner Fesmire	158
	Recross examination by Mr. Hall	161
21		
22	INDEX	PAGE
23	COG EXHIBITS 1 THROUGH 7 WERE ADMITTED	25
	COG EXHIBITS 8 THROUGH 13 WERE ADMITTED	38
24	COG EXHIBITS 14, 15 AND 16 WERE ADMITTED	57
	COG EXHIBIT 17 WAS ADMITTED	75
25	COG EXHIBIT 18 WAS ADMITTED	164

		PAGE
1	INDEX (Continued)	
2		
3	CHESAPEAKE EXHIBITS 1, 2 AND 4 WERE ADMITTED	85
4	CHESAPEAKE EXHIBIT 3 WAS ADMITTED	96
5		
6	CIMAREX EXHIBIT 1	
7	TABS 1 THROUGH 6 WERE ADMITTED	116
8		
9	CIMAREX EXHIBITS 2, 3 AND 4 WERE ADMITTED	116
10		
11	CIMAREX EXHIBIT 1	
12	TABS 8 AND 9 WERE ADMITTED	135
13		
14	CIMAREX EXHIBIT 1	
15	TABS 10 THROUGH 12 WERE ADMITTED	149
16		
17	REPORTER'S CERTIFICATE	166
18		
19		
20		
21		
22		
23		
24		
25		

1 EXAMINER JONES: Let's go back on the  
2 record this afternoon. We have three cases left on the  
3 docket. Let's call three cases and commingle the cases.  
4 Let's call Case Number 14507, application of Cimarex  
5 Energy Company for a non-standard oil spacing and  
6 proration unit and compulsory pooling, Chaves County,  
7 New Mexico.

8 Let me call all three of them. Let's call  
9 Case 14508, application of Cimarex Energy Company for a  
10 non-standard oil spacing and proration unit and  
11 compulsory pooling, Chaves County, New Mexico; and Case  
12 14500, application of COG Operating, LLC, for designation  
13 of a non-standard spacing unit and for compulsory  
14 pooling, Chaves County, New Mexico.

15 Call for appearances.

16 MR. HALL: Mr. Examiner, Scott Hall,  
17 Montgomery & Andrews, Santa Fe, appearing on behalf of  
18 COG Operating, LLC, and we have three witnesses this  
19 afternoon.

20 MS. MUNDS-DRY: Good afternoon,  
21 Mr. Examiners. Ocean Munds-Dry, with the law firm of  
22 Holland & Hart, LLP, here representing Chesapeake  
23 Operating, LLC, this afternoon. We have two witnesses.

24 MR. BRUCE: Mr. Examiner, Jim Bruce of  
25 Santa Fe, representing Cimarex. I have three witnesses.

1 EXAMINER JONES: Will all eight  
2 witnesses please stand and state your names for the  
3 record, please.

4 MR. TRESNER: Hayden Tresner.

5 MR. LAUTENSCHLEGER: Jason Lautenschleger.

6 MR. WORTHINGTON: Ralph Worthington.

7 MR. ZERKLE: Justin Zerkle.

8 MR. MARTIN: Robert Martin.

9 MS. SPRADLIN: Jan Spradlin.

10 MS. SLATON: Barbara Slaton.

11 MR. GAWLOSKI: Ted Gawloski.

12 (Eight witnesses were sworn.)

13 EXAMINER JONES: We've got three cases,  
14 and we're combining those cases. Maybe we'll start with  
15 Attorney Scott Hall. Do you have a synopsis of what  
16 you're going to --

17 EXAMINER FESMIRE: Jim, do you have any  
18 objection to comingling?

19 MR. BRUCE: No.

20 MR. HALL: Mr. Examiners, this case, we  
21 think, is fairly simple, two competing compulsory pooling  
22 cases. Cimarex has filed applications to establish four  
23 non-standard spacing and proration units consisting of  
24 four contiguous 40-acre tracts for four wells, each in a  
25 stand-up configuration.

1 COG, in their case, 14500, is proposing  
2 lay-down configuration for their well consisting of the  
3 south half/south half of Section 3, Township 15 South,  
4 31 East.

5 The applications for a permit to drill, the  
6 pooling applications, are in obvious conflict. We don't  
7 believe that the pooling issues themselves are  
8 necessarily complex, but there is a dispute between the  
9 parties about the proper development of Section 3. So  
10 granting one party's application necessarily entails  
11 denying the others.

12 There are some notice issues among the parties  
13 we will apprise you of through the course of the hearing,  
14 but we thought it would be appropriate to present to you  
15 primarily the geologic, the fundamentals of the  
16 compulsory pooling applications, and then we will ask  
17 that the record be held open for an additional period so  
18 that the parties may publish proper notice and send  
19 additional well proposals to additional unjoined parties  
20 whose identities were only recently discovered.

21 EXAMINER FESMIRE: Mr. Bruce, would you  
22 like to give an opening statement now?

23 MR. BRUCE: Just very briefly. Cimarex  
24 does have four well proposals in this section, but we're  
25 only here today for two of them. I think Scott said

1 four. I think the only company that has an APD is COG.  
2 They filed quite some time ago for an APD, and,  
3 therefore, pursuant to Division policy, Cimarex could not  
4 obtain APDs. They have staked their wells, but they have  
5 not filed for APDs.

6 And I agree with Scott that there needs to be  
7 a continuance of this matter, although we think that's  
8 minor, because the parties who will be drilling the well  
9 are all here today.

10 And, yeah, there will be -- we think this  
11 isn't -- we also believe this is not too complicated. We  
12 will present geology and engineering, as well as land  
13 testimony, and we'll be -- I think we would like to be  
14 fairly brief, I know, in our presentation and continue  
15 the case. I don't think there will be need for  
16 additional witnesses coming in at some point in the  
17 future. We think everything can be handled by affidavit  
18 subsequent to this.

19 EXAMINER FESMIRE: Ms. Munds-Dry, since  
20 you don't have an application, what's your position in  
21 this case?

22 MS. MUNDS-DRY: Why are we here?

23 EXAMINER FESMIRE: That's the question I'm  
24 trying to ask.

25 MS. MUNDS-DRY: Chesapeake is here because



1 Cimarex is seeking to pool Chesapeake in their Boxer 3  
 2 Fee Number 3 well. Chesapeake opposes that application.  
 3 In fact, they have already joined in the well proposed by  
 4 COG. So we are here to not only support COG's  
 5 application, but oppose to Cimarex's application.

6 EXAMINER FESMIRE: So you're basically  
 7 allying with Mr. Hall's client?

8 MS. MUNDS-DRY: Yes, sir.

9 EXAMINER FESMIRE: What we'll do is go  
 10 ahead and let Mr. Hall present his case, let you present  
 11 your additional case, and let Mr. Bruce present his case,  
 12 and then give you all a break.

13 MR. HALL: If I may approach and  
 14 distribute exhibits? We'll ask Ms. Spradlin to come to  
 15 the stand.

16 JAN SPRADLIN

17 Having been first duly sworn, testified as follows:

18 DIRECT EXAMINATION

19 BY MR. HALL:

20 Q. For the record, please state your name.

21 A. Jan Spradlin.

22 Q. Ms. Spradlin, where do you live and by whom  
 23 are you employed?

24 A. Midland, Texas. I'm employed by COG  
 25 Operating, LLC.

1 Q. What do you do for them?

2 A. I'm a senior landman.

3 Q. You have previously testified before the  
4 Division and the Commission and had your credentials as a  
5 petroleum landman established as a matter of record; is  
6 that correct?

7 A. That's correct.

8 Q. Are you familiar with the applications filed  
9 in these cases and the lands that are the subject of the  
10 applications?

11 A. Yes.

12 MR. HALL: Mr. Examiner, we would offer  
13 Ms. Spradlin as an expert petroleum landman.

14 EXAMINER JONES: So qualified.

15 Q. (By Mr. Hall) If you would, please, give the  
16 Hearing Examiner a brief synopsis of what COG is  
17 proposing by its application.

18 A. We're seeking an order consolidating four  
19 40-acre spacing units into a south half/south half  
20 proration unit designating those consolidated units as a  
21 160 non-standard unit to pool in the lower Abo/Wolfcamp  
22 Formation.

23 Q. Let's look at Exhibit 1. What does that show  
24 us?

25 A. That is our permit.

1 Q. And for the record, let's state the lands  
2 you're seeking to designate as a non-standard unit.

3 A. Yes, it is.

4 Q. Could you state those lands, please?

5 A. The south half of the south half of Section 3,  
6 15 South, 31 East.

7 Q. Is Exhibit 1 Concho's APD for the well?

8 A. Yes.

9 Q. If we look at the second and third pages of  
10 Exhibit 1, does it show us the surface and bottomhole  
11 locations?

12 A. Yes.

13 Q. Could you indicate those for the record?

14 A. We have standard locations 330, 660 for  
15 bottomhole location, and the surface is 430, 660. Our  
16 project area is within the production rules for producing  
17 out of the lower Wolfcamp.

18 Q. And is this a Wildcat Wolfcamp oil pool for  
19 this area?

20 A. Yeah, it is.

21 Q. In each of the 40-acre tracts you are  
22 designating as your non-standard unit for your drilling  
23 project, does COG have the right to drill in each of  
24 those tracts?

25 A. Yes, we do.

1 Q. Let's look at Exhibit 2, please. Would you  
2 tell us what that shows?

3 A. It indicates the entirety of the south half of  
4 Section 3, 15 South, 31 East, in the southwest quarter.  
5 COG and Chesapeake own 100 percent of that tract, 50-50  
6 each. They agreed to join with us in drilling of the  
7 locations. In the west half of the southeast quarter,  
8 Chesapeake owns a 12-and-a-half percent, and Pure Energy,  
9 an unleased mineral interest, has joined us, agreed to  
10 join us, and signed an operating agreement for their  
11 interest under that tract.

12 EXAMINER FESMIRE: Could you say that  
13 again. Who?

14 THE WITNESS: You've got Thomas -- we have  
15 the right under contract for Chesapeake and Pure Energy  
16 for the west half of the southeast quarter. The other  
17 owners listed there are Thomas Jennings, Chisos, Blanco  
18 and First Roswell. And they were noticed, but they have  
19 not -- Chisos is joining Cimarex, and we have not heard  
20 from Blanco, First Roswell or Thomas Jennings.

21 EXAMINER FESMIRE: I'm a little confused  
22 here. Chesapeake has joined you in that half-quarter  
23 section?

24 THE WITNESS: Yes. In the west half of  
25 the southeast quarter, Chesapeake owns 12-and-a-half

1 percent interest.

2 EXAMINER FESMIRE: And they joined you  
3 there?

4 THE WITNESS: Yes. So has Pure Energy,  
5 who owns a quarter.

6 EXAMINER FESMIRE: Okay.

7 THE WITNESS: Then in the east half of the  
8 southeast, COG owns 29 -- basically, 29.44 interest from  
9 fee leases we have acquired. We have acquired by farmout  
10 OXY's interest, which is 31.8. And we have -- it came to  
11 light that New Mexico Boys and Girls Ranch Foundation was  
12 unleased, and we acquired a lease from them yesterday.

13 Q. (By Mr. Hall) For clarification, the  
14 ownership you're showing, everything highlighted in  
15 yellow is committed to Concho?

16 A. COG.

17 Q. And the ownership is also reflected for the  
18 entire south half there; correct?

19 A. Correct.

20 Q. Is ownership consistent with the south  
21 half/south half of the unit you're proposing?

22 A. Yes.

23 Q. Could you tell the Examiner, do you know how  
24 long COG held its interest in the south half/south half?

25 A. We acquired the lease from Heyco in July. I

1 think it was July of 2007.

2 Q. When, approximately, did COG begin its  
3 geologic evaluation of the acreage?

4 A. When we bought the acreage.

5 Q. Let's look at Exhibit 3. What does Exhibit 3  
6 show us?

7 A. It gives you a timeline for the development  
8 and how we started this project after we acquired the  
9 Heyco acreage.

10 Q. Could you run through those for the record,  
11 please?

12 A. We did ownership reports from Continental  
13 Land.

14 Q. When was that?

15 A. May of 2007. Then we acquired the leases in  
16 July. In November of 2007, we received proposals from  
17 Chesapeake on the Pegasus Well, which was in the south  
18 half of Section 3. After that, we did have hearings on  
19 that. We came to agreements, and we both operate jointly  
20 in different areas within -- which is covered by a BLM  
21 lease.

22 We've continued to develop that area. We  
23 entered into the operating agreement in November of 2008.  
24 We submitted a permit for these particular wells. The  
25 south half/south half was submitted to the BLM in March

1 of 2009.

2 We had a surface -- this is a split estate.  
3 The southwest quarter is split estate. We have an  
4 agreement with the surface owner, but over this period of  
5 time, he has asked us to amend it for -- increase what we  
6 were paying him over the period. So we entered in, and  
7 it was finalized -- the second amendment to the notice of  
8 memorandum and what we would be paying him -- in January  
9 of 2010.

10 In February, the APD was approved by the BLM  
11 and, five days later, the OCD. And we've been drilling  
12 wells. We've drilled -- I believe Chesapeake has drilled  
13 several wells. We're developing what we call the Taurus  
14 area, the Hercules, Andromeda. Wells have been drilled  
15 out there. Most of them have been very good. We've been  
16 successful, including Cimarex's wells. We noticed that  
17 on April 4th, Marshall P&A'd the first well in this play.

18 Q. April 4th of this year?

19 A. Right.

20 Q. Where was that as well?

21 A. That well is in Section 35, 14 South, 30 East.

22 Q. Is that located immediately to the north of  
23 Section 3?

24 A. It's a little northeast. I have to look at my  
25 map.

1 EXAMINER FESMIRE: Why did they plug that  
2 well? Was it depleted?

3 THE WITNESS: It was the only -- I'll let  
4 the geologist and engineers talk to you, but it was dry.

5 Q. (By Mr. Hall) After that well was plugged,  
6 what happened next?

7 A. I received, on April 9th, four Boxer Well  
8 proposals from Cimarex.

9 Q. Explain to the Hearing Examiner, when you say,  
10 "the four Boxer Wells," where are they located? What's  
11 their unit configuration?

12 A. They were going from the north to the south.

13 Q. They're all in Section 3?

14 A. They're all in Section 3. And we received  
15 four, and we didn't own any acreage in one of the -- the  
16 west half of the east half. We have no working interest  
17 in that particular tract. Their proposal included an AFE  
18 and that an operating agreement would be sent under  
19 separate cover, which we didn't receive until June.

20 We, in turn, sent out a well proposal on the  
21 south half of the south half. And the tracking sheet on  
22 those notices and who was noticed is an attachment to  
23 this exhibit.

24 We then contacted the Hinkle Law Firm in  
25 Roswell to prepare a title opinion. In May, the Hinkle



1 law firm conflicted out because both Cimarex and Concho  
2 were their clients. Hayden and I attempted to work out  
3 something, which was not approved by his management.

4 Q. For the record, who is Hayden?

5 A. Hayden Tresner is the landman for Cimarex.

6 So as a result, we both had to go get separate  
7 counsel, and that's when I contacted Jeff Bowman to  
8 prepare us a drilling title opinion. And on July 17th, I  
9 received a preliminary title report, indicating that  
10 there were multiple unleased mineral owners and  
11 discrepancy in working interest ownership, and have since  
12 contacted and gotten commitments from some of those  
13 people.

14 Q. Let me walk you back a little bit. How did  
15 COG go about determining the surface and bottomhole  
16 location for this well, the Boxer Well -- the Leo. I'm  
17 sorry.

18 A. How did we determine it? By geology.

19 Q. How did you locate the surface and bottomhole  
20 locations?

21 A. By the rules set out by the Commission, that  
22 we needed to be 430 off in our offset.

23 Q. Are both the surface and bottomhole locations  
24 orthodox locations?

25 A. Yes, they are, and our setbacks are, also,

1 within the project area.

2 Q. In the course of establishing the surface  
3 location, did you confer with the surface occupant, the  
4 rancher?

5 A. Yes, we did. Mr. Medlin was there. He  
6 approved our right-of-ways, the various ways in that we  
7 were going to be coming in and using the surface.

8 Q. Was there a site visit by a Concho landman  
9 with Mr. Medlin?

10 A. Noel Olivas is the landman that was handling  
11 our surface use agreements now.

12 Q. And was it pursuant to that process whereby  
13 you conferred with the surface owner that led to the  
14 BLM's approval of your APD?

15 A. That's correct. They would not approve it  
16 until Mr. Medlin had signed off on everything.

17 Q. Let me ask you, is the east/west orientation  
18 that COG is proposing for its Leo 3 well consistent with  
19 the established prevailing development pattern in this  
20 area?

21 A. Yes, it is.

22 Q. Look back to Exhibit 2, just briefly. Can you  
23 tell the Hearing Examiner what is COG's working interest  
24 control in the entire non-standard unit 160 acres?

25 A. We have 127 acres out of the 160 acres in our

1 control.

2 Q. Roughly, 80 percent?

3 A. Yes.

4 Q. Are you asking the Division to pool the  
5 unjoined working interest owners and mineral interest  
6 owners?

7 A. Yes.

8 Q. And there are still some remaining unleased  
9 mineral interest owners?

10 A. There are. And unnotified mineral interest  
11 owners.

12 Q. Is COG seeking the imposition of a 200 percent  
13 risk penalty against the unjoined interests?

14 A. Yes.

15 Q. And COG is asking to be designated operator of  
16 the Leo well?

17 A. Yes.

18 Q. In your opinion, has COG made a good-faith  
19 effort to negotiate and obtain the voluntary  
20 participation from the unleased mineral interest owners  
21 or the working interest owners that you know of?

22 A. Yes.

23 Q. Will COG require additional time to make well  
24 proposals or obtain leases from the interest owners whose  
25 identity you recently discovered?

1 A. Yes.

2 Q. Let's turn to what we've marked as Exhibit 4.  
3 What I'd like you to do is identify that exhibit for us  
4 and give us a summary of all of your efforts to obtain  
5 voluntary participation of all the interest owners in  
6 your south half/south half unit.

7 A. Okay. We sent out those proposal letters  
8 asking people to either -- depending on what type of  
9 interest they have --

10 Q. Let me ask you this way: Is Exhibit 4 a  
11 compilation of your well proposal letters that went out  
12 to all of the interest owners you're seeking to pool?

13 A. Known at that particular time, based on the  
14 information. There is some parties that were not  
15 notified properly.

16 Q. I'm sorry. Go ahead and walk us through the  
17 history of that.

18 A. Of the --

19 Q. Of your well proposal.

20 A. We always send Fed Ex. We hand-delivered to  
21 Cimarex because they're in town. And it gives you a  
22 choice of joining. We tell where our well is going to  
23 be, the location. We provide an AFE, and we also  
24 furnish, at the time we send the proposals, an  
25 executeable operating agreement, and ask people to sell

1 to us, join us, you know, give us a lease.

2 Some of the letters are a little different,  
3 depending whether it's a mineral interest or if people  
4 have acquired leases from other parties.

5 Q. If we walk through the contents of Exhibit 4,  
6 does it consist of an April 22, 2010, well proposal  
7 letter sent to Cimarex?

8 A. Yes.

9 Q. Underneath that, is there a well proposal of  
10 that same day that went to Chisos Limited?

11 A. Correct. And one to the Blanco Company, which  
12 was returned, and we Fed Ex'ed it back out again. They  
13 didn't have their current address on the state site. We  
14 sent one to Thomas Jennings. We sent one to First  
15 Roswell Company.

16 Q. Were you successful in obtaining the  
17 commitment of those interests to your well proposal?

18 A. Unless it went to Chesapeake, but I don't --  
19 yes. Pure Energy has joined, and Chesapeake joined in  
20 the drilling of the well.

21 Q. So we're clear, all the interest owners who  
22 received the letters that comprise Exhibit 4 did not  
23 elect to participate in the well?

24 A. I never did hear back from them.

25 Q. And let's look at Exhibit 5 quickly. What is

1 Exhibit 5?

2 A. Our AFE for the Leo 3 Fed Com 1.

3 Q. Is this the AFE that went out with each of  
4 your well proposals?

5 A. Yes, it is.

6 Q. And turn to Exhibit 6. What is that?

7 A. That's the front page of our operating  
8 agreement showing what acreage will be covered under this  
9 OA and also what well is being proposed on page 5.

10 Q. And so is Exhibit 6 an excerpt from the  
11 operating agreement you sent with your well proposals?

12 A. Yes, it is.

13 Q. Now, let's look at Exhibit 7. Would you  
14 identify that, please?

15 A. This is a preliminary title report from my  
16 attorney, Jeff Bowman, which was sent Saturday evening,  
17 late -- I didn't receive it until Monday -- setting forth  
18 the title in the south half of Section 3.

19 Within this title there are several parties  
20 that were totally unknown to us through even our  
21 take-offs that we had done. And also some of the  
22 ownership was very different from the standpoint it names  
23 OXY as an owner. It also had unleased mineral owners  
24 that we were not -- had not seen before.

25 Q. Look at page 2 of that exhibit. Does that

1 summarize the leasehold ownership in the southeast  
2 quarter of Section 3?

3 A. Yes, as far as I know. And I didn't know  
4 Penroc. I had never seen anything on Penroc in this  
5 area.

6 Q. And you received this report when?

7 A. It was sent Saturday evening, and I received  
8 it on Monday.

9 Q. All right. And if we look at subparagraph  
10 B(1)(a), it reflects an interest for OXY NM LP?

11 A. Yes.

12 Q. Do we know where those interests came from?

13 A. From the Bold merger, a name change that OXY  
14 acquired.

15 Q. And the last entry under that category B(1)(a)  
16 shows unleased --

17 A. Unleased, but 19 percent of that, which is the  
18 New Mexico Boys Ranch, I have under lease now.

19 Q. When did you get that lease?

20 A. It was effective July 21st, and I have a  
21 commitment from OXY for a farmout.

22 Q. And can you tell us who the remaining unleased  
23 mineral interest owners --

24 A. The person's name is A.D. Jones and Patricia

25 A. Jones. I found out through my attorney that they live

1 in Roswell -- which they will begin contacting.

2 Q. Will it be necessary to send them a well  
3 proposal letter?

4 A. Yes.

5 Q. In your opinion, Ms. Spradlin, has COG acted  
6 diligently to develop the reserves that it owns in the  
7 south half/south half of Section 3?

8 A. Yes, sir.

9 Q. And has Cimarex proposed a well unit that is  
10 in conflict with yours?

11 A. Correct.

12 Q. In your opinion, would the granting of COG's  
13 application and the denial of the two Cimarex  
14 applications be in the interest of conservation, the  
15 prevention of waste, and the protection of correlative  
16 rights?

17 A. Yes, I believe so, in my opinion.

18 Q. Were Exhibits 1 through 7 prepared by you or  
19 at your direction?

20 A. Yes.

21 MR. HALL: At this point, Mr. Examiner, we  
22 move the admission of Exhibits 1 through 7, and I pass  
23 the witness.

24 EXAMINER JONES: Any objection?

25 MS. MUNDS-DRY: No.



1 MR. BRUCE: No objection.

2 EXAMINER JONES: Exhibits 1 through 7 will  
3 be admitted.

4 (COG Exhibits 1 through 7 were admitted.)

5 EXAMINER FESMIRE: Ms. Munds-Dry, do you  
6 have any questions of this witness?

7 MS. MUNDS-DRY: I don't have any questions  
8 of Ms. Spradlin.

9 EXAMINER FESMIRE: Jim?

10 MR. BRUCE: Just a few.

11 CROSS-EXAMINATION

12 BY MR. BRUCE:

13 Q. Ms. Spradlin, looking at your Exhibit 1, the  
14 APD, the few pages from the federal APD, I'm guessing  
15 there's about 50 additional pages?

16 A. Yes. It's just a portion of it.

17 Q. The surveyor certificate was September 9th,  
18 2007. Is this the first APD that was filed on this  
19 acreage?

20 A. Yes. It was filed in -- it was submitted  
21 March 26th, but we did all our surveying back in 2007,  
22 when we were doing the Chesapeake -- all in that. But  
23 the permit was not actually sent for permitting, but we  
24 did a lot of work with the surface owner. Because  
25 Mr. Medlin owns in that entire area. It is split estate.

1 His Section 3 was in our original surface use agreement,  
2 so we did pick locations.

3 But I'm going by that the permit was not sent  
4 in until March, when it was submitted. I couldn't tell  
5 you if there was another one or not.

6 Q. I just want to be clear. You sent to the  
7 Blanco Company. Are you telling me that the one sent to  
8 Ruidoso came back?

9 A. There was one that was sent back.

10 Q. Because it's currently in Albuquerque now;  
11 right?

12 A. I would have to -- where is that tracking  
13 sheet? Yes. It came back, and then it went to  
14 Albuquerque.

15 Q. And your JOA proposes your particular well in  
16 the south half/south half, but this JOA proposed to  
17 Cimarex and the others covers the entire south half;  
18 correct?

19 A. Right. Because the ownership was common  
20 between the two wells, I tried to do operating agreements  
21 where you're not having to come back on a well-by-well  
22 basis if the ownership is common.

23 Q. Looking at your Exhibit 7, I wasn't quite  
24 clear on who you said COG still needs to give notice to.

25 A. We have not given notice to Merch. Penroc, we

1 did not notify. We did not notify the unleased owner,  
2 the A.D. Jones, by virtue of calling OXY and getting a  
3 commitment. And, also, the unleased interest with  
4 New Mexico Boys Ranch, those people don't -- I have  
5 leases with them.

6 Q. Title in this fee land in Southeast New Mexico  
7 is getting increasingly difficult, isn't it?

8 A. Yes.

9 Q. So you have to do two parties at this point?

10 A. Yes, I do.

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

13 MR. HALL: Nothing further.

14 EXAMINER JONES: Can you restate your  
15 relationship to Chesapeake in this area? Do you have a  
16 JOA with them in this area for developing these  
17 horizontal wells?

18 THE WITNESS: We have a joint operating  
19 agreement that covers the majority of this specific lease  
20 in this area. The south half of Section 3 was not  
21 included in that, and we entered into a separate OA for  
22 just the south half.

23 EXAMINER JONES: That's all.

24 EXAMINER FESMIRE: Mr. Hall?

25 MR. HALL: Nothing further.

1 EXAMINER FESMIRE: Mr. Bruce?

2 MR. BRUCE: Nothing.

3 MR. HALL: Thank you, Ms. Spradlin.

4 At this time we would call Ted Gawloski to the  
5 stand.

6 EXAMINER FESMIRE: Mr. Gawloski, you've  
7 been previously sworn in this case; correct?

8 MR. GAWLOSKI: Yes, sir.

9 EXAMINER FESMIRE: Take the witness stand.

10 TED GAWLOSKI

11 Having been first duly sworn, testified as follows:

12 DIRECT EXAMINATION

13 BY MR. HALL:

14 Q. For the record, please state your name.

15 A. Ted Gawloski.

16 Q. And where do you reside, and by whom are you  
17 employed?

18 A. I live in Midland, Texas, and I work for COG  
19 or Concho Resources. If you hear both of them, they're  
20 the same thing.

21 Q. How are you employed?

22 A. I'm a senior geologist in the Exploration  
23 Group.

24 Q. You testified before the Division and the  
25 Commission a number of times and had your credentials

1 accepted as a matter of record as an expert petroleum  
2 geologist?

3 A. Yes, sir.

4 Q. Are you familiar with the lands in the  
5 applications that are the subject of this hearing today?

6 A. Yes, sir.

7 MR. HALL: At this point, Mr. Examiner,  
8 we'd offer Mr. Gawloski as an expert petroleum geologist.

9 EXAMINER JONES: Any objection?

10 MS. MUNDS-DRY: No objection.

11 MR. BRUCE: No.

12 EXAMINER JONES: Mr. Gawloski is qualified  
13 as an expert petroleum geologist.

14 Q. (By Mr. Hall) Mr. Gawloski, you have some  
15 experience in the lower Abo/Wolfcamp play that we're  
16 talking about here today?

17 A. Yes, sir.

18 Q. Why don't you give us an overview of your  
19 experience?

20 A. I've been working the play ever since the  
21 beginning of -- over two years, exclusively. And I've  
22 been the geologist responsible for the recommendation of  
23 17 wells, operated wells, and another 12 non-operated  
24 wells. And we had three wells approved to drill this  
25 year.

1           Q.     Have you conducted a geologic investigation to  
2 determine whether each of the 40-acre tracts that Concho  
3 proposes to dedicate to its lay-down non-standard unit  
4 are each prospective for production?

5           A.     Yes.

6           Q.     What did you conclude?

7           A.     The COG locations will effectively drain the  
8 reservoir with two wells, as opposed to four wells that  
9 Cimarex has proposed.

10          Q.     And are each of the 40-acre tracts in the  
11 south half/south half of Section 3 prospective for  
12 production?

13          A.     Yes.

14          Q.     Let's look at some of the exhibits you  
15 prepared to discuss today. Let's look at Exhibit 9. If  
16 you would identify that.

17          A.     Exhibit 9, basically, it's a tally sheet that  
18 I keep of the play. There's some dynamics to it. Some  
19 people may have more wells or less wells. But I have 319  
20 total horizontal wells permitted, drilled or completed so  
21 far. 77 have been completed, approximately. 308 of  
22 these wells are oriented east to west or west to east,  
23 and 11 are oriented north/south or south/north. About  
24 96-and-a-half percent of the wells are oriented east/west  
25 or west/east.

1 Q. I misidentified an exhibit for you. Were you  
2 referring to Exhibit 8?

3 A. This is Exhibit 8 here. This is the exhibit I  
4 was referring to here.

5 Q. My mistake. Let's turn to Exhibit 9.

6 EXAMINER FESMIRE: In the play, there are  
7 only, basically, two sets of north/south wells in Section  
8 18 and Section 3?

9 THE WITNESS: This displays for a certain  
10 township. There's many more locations besides this.  
11 This township has 95 locations, and the remaining are in  
12 different townships and ranges.

13 This exhibit here is essentially the play map  
14 of the Township 15 South, 31 East, where the Leo Federal  
15 and the Boxer wells are located. They're up in Section  
16 3. If you refer to the legend down here, the green wells  
17 are Cimarex permitted locations or stake locations, and  
18 some of them haven't been permitted.

19 Cimarex completed wells are shown in gray.  
20 The other completed horizontal wells are shown in black.  
21 COG permitted wells are shown in red that haven't been  
22 drilled. Then the black wells, again, are already  
23 completed wells. The blue wells are wells staked by  
24 other companies that have not been completed yet.

25 To date, I have 95 locations in the township,

1 87 oriented in the east to west or west to east. Cimarex  
2 had, in my count, 61 locations, with 53 oriented east to  
3 west or west to east, and eight oriented north/south, the  
4 four Boxer wells and the four wells in Section 18.

5 EXAMINER FESMIRE: As a geologist, do you  
6 have a theory as to why the east/west oriented wells have  
7 been more successful than the north/south?

8 THE WITNESS: Basically, the play started  
9 that way when we drilled our initial well a couple of  
10 years ago. And subsequent to that, most -- almost every  
11 well has been staked in that direction. There's been  
12 some studies done, but they had conflicting results as to  
13 orientation.

14 So most of the operators just kept it going  
15 the way it was, because there's been a great track record  
16 in this play. Basically, there's only one well drilled  
17 that -- a lateral that has been drilled that's actually  
18 been plugged.

19 There's been a couple others that some pilot  
20 holes have been abandoned, but only one well -- this  
21 Marshall Winston well up here in Section 35 is the only  
22 one I'm aware of that was drilled as a lateral and  
23 actually plugged.

24 Q. (By Mr. Hall) Mr. Gawloski, let me ask you,  
25 is Cimarex's proposal to develop Section 3 with stand-up



1 units advisable in your opinion?

2 A. No, it's not.

3 Q. Why not?

4 A. Well, I can explain with the next exhibit  
5 here.

6 Q. All right. Turn to Exhibit 10. Would you  
7 identify that and explain that to us?

8 A. This is an isopach of a dolomite pay zone in  
9 the lower Abo pay interval. Basically, it shows a thick  
10 that runs kind of diagonally and across Sections 17 and  
11 18, upwards, towards the southeast quarter of Section 3,  
12 where the Leo Federal locations are, and back down to the  
13 southwest there.

14 It also shows a pinch-out line, basically,  
15 where that blue is shown on the contour map of the  
16 pinch-out of the zone. And this is based upon  
17 information on this new well that we've been referring  
18 to, this Marshall & Winston well, which was abandoned at  
19 a TD of 12,267. And I'll have further displays that go  
20 into detail on that.

21 But, basically, they only had a three-foot  
22 drilling break in the pilot hole and the mud log on it.  
23 That's where I got the number. They ran an electric log,  
24 but it was only an induction log, so I used the mud log  
25 for the number, and I have that included here.

1 But, essentially, that is the main control  
2 point for the north to show, as you go from that  
3 direction, that you're drastically thinning. The Cimarex  
4 well in Section 2, the Wasp state well, has 76 feet of  
5 pay, and you go to three feet right there.

6 And to show that that can happen, if you look  
7 over in Section 8, you'll see these Marshall & Winston  
8 wells, the Medlins, it goes from 42 feet to 14 in one  
9 proration unit right there. They did make a well like  
10 that, because they took the lateral and got into the pay.  
11 You can see how they went back to the west. So the  
12 abrupt thinning is definitely documented in here.

13 So we feel -- you know, looking at this  
14 isopach, it's much more feet of pay in the south half of  
15 Section 3, and it can certainly be better developed by  
16 two east to west or west to east wells on here.

17 Q. Based on your geologic mapping, including  
18 Exhibit 10, do you have an opinion whether each of the  
19 40-acre tracts that comprise Cimarex's proposed stand-up  
20 well units are prospective for production? I'm talking  
21 about the Cimarex tracts now.

22 A. Yeah. I believe that the north half would be  
23 extremely risky drilling for this Abo pay zone.

24 Q. Do you have an opinion whether a spacing and  
25 proration unit comprised of the south half/south half in

1 a lay-down configuration is better situated to produce  
2 the reserves underlying Section 3?

3 A. Very much so, yes.

4 Q. Would you refer to Exhibits 11 and 12 and  
5 identify those for us? And if you would also refer those  
6 locations back on Exhibit 10.

7 A. Okay. The next exhibit is part of the mud log  
8 of the Marshall & Winston Caprock 35 State well. It's  
9 located in Section 35 in the north end of the map,  
10 14 South, 31 East, just to the north and east of  
11 Section 3.

12 EXAMINER FESMIRE: This is the plugged  
13 well; right?

14 THE WITNESS: Yes. This is the pilot hole  
15 mud log that they had. And, basically, there's three  
16 feet of drilling break, and I think I was generous in  
17 giving it three feet.

18 They ran seven-inch casing and drilled their  
19 lateral. They drilled about 3,162 feet of lateral, and  
20 within the lateral there were only two intervals that  
21 total 180 feet that had a mud log show, so less than 6  
22 percent of the entire lateral had a mud log show.  
23 Therefore, when they were drilling this, they got,  
24 basically, tired of drilling a bunch of hard rock and  
25 abandoned the well and plugged it. They were 902 feet

1 shy of their final TD, but they still drilled over 3,000  
2 feet of lateral.

3 Q. (By Mr. Hall) Do you know what date that well  
4 was abandoned?

5 A. They TD'd the well on April 4th, and there is  
6 no official data released on this. But I'm pretty sure  
7 they would have plugged it the next day or two, because  
8 they had the rig out there, so April 5th or 6th,  
9 somewhere in there.

10 Q. Look at Exhibit --

11 A. The next exhibit is, basically, an example of  
12 a good mud log. It's one of the Cimarex wells down in  
13 Section 11, the Enterprise Number 1. It's 32 feet of  
14 drilling break in this mud log. It has really good shows  
15 in it. Actually, 89 percent of the lateral here had good  
16 shows in it, and it's a productive well, about 60,000  
17 barrels in 14 months. That's an example of what a good  
18 well looks like and what you had up here in this Caprock  
19 State well.

20 Q. Mr. Gawloski, developing Section 3 with two  
21 lay-down units in the south half of the section, will  
22 allow us to avoid the drilling of unnecessary wells?

23 A. Yes.

24 Q. And as a result, will project economics be  
25 improved when you drill two wells versus four wells?

1 A. Absolutely.

2 Q. And in your opinion, will granting COG's  
3 application, approving of the lay-down unit  
4 configuration, be in the interest of conservation, the  
5 prevention of waste, and the protection of correlative  
6 rights?

7 A. Yes.

8 Q. Were Exhibits 8 through 12 prepared by you or  
9 at your direction?

10 A. Yes.

11 Q. Look at one more exhibit that we don't have  
12 marked. Let's call it 12A.

13 Do you need to take a break?

14 A. No. I'm fine.

15 This exhibit here essentially states what we  
16 just mentioned, that it's just, basically, a blowup of  
17 Section 3, just showing that our two Leo wells will  
18 effectively drain the lower Abo reservoir and prevent  
19 waste. The pay thickens to the south, and there's much  
20 more pay developed in the south, and two wells could  
21 effectively drain this reservoir.

22 MR. HALL: I misspoke. We've marked this  
23 as Exhibit 13.

24 Q. (By Mr. Hall) I'll ask you again, were  
25 Exhibits 8 through 13 prepared by you or at your

1 direction?

2 A. Yes, they were.

3 MR. HALL: We move the admission of  
4 Exhibits 8 through 13, and pass the witness.

5 MS. MUNDS-DRY: No objection.

6 MR. BRUCE: No objection.

7 EXAMINER JONES: Exhibits 8 through 13  
8 will be admitted.

9 (COG Exhibits 8 through 13 were admitted.)

10 MS. MUNDS-DRY: No questions.

11 EXAMINER FESMIRE: Mr. Bruce?

12 MR. BRUCE: Really, just one question.

13 CROSS-EXAMINATION

14 BY MR. BRUCE:

15 Q. Mr. Gawloski, you said that -- I think your  
16 final statement was that two wells would effectively  
17 drain the reservoir in this section. Including reserves  
18 in Section 3, in the north half of Section 3?

19 A. No. The two wells in the south half of  
20 Section 3.

21 MR. BRUCE: Okay. That's all I have.

22 EXAMINATION

23 BY EXAMINER JONES:

24 Q. I forgot to ask, is this a regular section, do  
25 you know? I should have asked Jan Spradlin.

1           A.     Yes. I believe it is just a regular section.

2           Q.     This Abo/Wolfcamp business, I notice you're  
3 calling it the Abo.

4           A.     Right. Actually, in these displays I put  
5 "Abo/Wolfcamp." I believe Cimarex uses that terminology,  
6 as well, because the OCD -- different places, they call  
7 it the Wolfcamp, and another place, they'll call it Abo.  
8 So we put both names to it, to just identify it as the  
9 pay zone that we're looking at.

10          Q.     You're showing the Wolfcamp top has got some  
11 limestone in it on these -- I'm sorry. This is the mud  
12 log shows. That's just a coincidence, I guess?

13          A.     That's a mud logger's interpretation there.  
14 This is mostly dolomite he's showing on both of these mud  
15 logs. But there's lime mixed in, probably, a limey  
16 dolomite.

17          Q.     So it's pretty clear where the Wolfcamp is?

18          A.     Yes, it is. There's a distinct break in the  
19 top seal to this, where there's anhydritic dolomite.  
20 Then you come into either dolomite or limestone just  
21 right below that. And that pay is, basically, 150 feet  
22 below that.

23          Q.     Below the top of the Abo?

24          A.     No. It would be a lower marker in the Abo.  
25 It's a lithology -- distinct lithology difference, where

1 if you have a density neutron log, it will show  
2 anhydrite. The density will be reading minus 10, and  
3 then an abrupt change right below that, and that's where  
4 the pay is. That top is the seal for the reservoir.

5 Q. Does that anhydrite explain how you can keep  
6 your bit in it, below it?

7 A. It helps you steer it. If you get into that,  
8 you know you want to get away from that and move down.

9 Q. Do you lose many of those wells drilling them?

10 A. No, we haven't lost any. But I can tell you  
11 it's very difficult to stay in the pay. You have to  
12 watch it 24 hours.

13 Q. Watch it in the samples?

14 A. Steering the well, to keep it in the pay.

15 Q. With what aid do you do that, with gamma  
16 rays --

17 A. Yeah.

18 Q. -- or logging well drilling? Gamma ray?

19 A. Yes, sir, and a good mud logger.

20 Q. And a mud logger?

21 A. Yeah.

22 Q. That gamma ray, is it one joint back?

23 A. Yeah. I think it gets roughly 30, 40 feet,  
24 somewhere in there. I'm not exactly sure, but it's  
25 close.



1 Q. So you're a ways back from your bit when you  
2 see it?

3 A. Yeah. When you react to it, you're a little  
4 late, of course.

5 Q. How many feet a day do you drill in a  
6 horizontal section?

7 A. Depending upon your configuration, we use a  
8 rotary steerable assembly, and you can make a lot, up to  
9 from 70 feet an hour, even more than that sometimes. So  
10 they can drill fast, so you have to react quickly if you  
11 get out of the pay zone.

12 Q. So a foot a minute?

13 A. Yeah. It's not uncommon. If you have PDC  
14 bits in there, they can chew it up.

15 Q. So you see your samples -- mud loggers, are  
16 they pretty definitive samples?

17 A. Yeah. They get pretty small, but they get  
18 enough rock to where they can get good samples and good  
19 shows of gas, enough to know that you're in a pay zone or  
20 not.

21 Q. Do you guys always drill vertical wells and  
22 log them?

23 A. No, sir. Based upon -- like an area like  
24 this, you know, if we drilled in, like, the south  
25 half/south half of 15, we might drill a pilot hole. But

1 if we were drilling up where we have well control and  
2 that pilot hole is going to be next to another well, we  
3 will do it without it. It's tricky, but we can save a  
4 substantial amount of money, \$200,000, something like  
5 that. So my engineers are always all over me. I prefer  
6 to have a pilot, because it gives me the control to feel  
7 comfortable when I drill the lateral.

8 Q. If you drill where you're proposing to drill  
9 here, do you need to drill a pilot hole?

10 A. It depends if I get the log on the Cimarex  
11 well. If I had that, then I'd be able to -- or have more  
12 of it, I guess, I'd be able to use it for the control I  
13 need because it's close enough where I can land it.  
14 We've done that enough to where we feel comfortable doing  
15 it.

16 Q. So if you drilled where Cimarex is proposing  
17 to drill, starting --

18 A. If I started way up there to the north?

19 Q. Would you have to drill a pilot hole?

20 A. Sure I would, because that may be out of the  
21 pay zone up there, up that far north. I don't even know  
22 if I'd find pay in that well.

23 Q. What control did you have to draw these  
24 structure maps?

25 A. It's an isopach map. It's a thickness map of

1 the pay, essentially.

2 Q. Okay.

3 A. I had the well in Section 2, and then, again,  
4 that Marshall & Winston Caprock well. When you see a red  
5 number by the wells is where I had control. So there's  
6 quite a bit of well control in here.

7 Q. To the south?

8 A. To the south. Then, basically, on strike to  
9 that, those wells in Section 8 I referred to, Medlin  
10 Wells and Marshall & Winston, you can see that company  
11 likes to play this pinch-out. When you do that, you get  
12 the risk of doing what they did up in 35. They were  
13 really close to missing it in that Medlin well in Section  
14 8.

15 Q. You're basing a lot on this well in Section 35  
16 to the north, that three feet?

17 A. Yes, sir. Like I said, it's the only well I'm  
18 aware of that was drilled in a lateral and was actually  
19 abandoned.

20 Q. Isn't it true if you did spud a well to the  
21 north half of Section 3, you would obtain more  
22 information that might help you to actually extend this  
23 reservoir out to the north? Is it possible?

24 A. If you wanted to drill that. I certainly  
25 wouldn't want to take that risk.

1 Q. So you're totally sure of your map here?

2 A. I feel very confident in the map, yes, sir.

3 Q. Okay.

4 A. I've been working this play since it started  
5 exclusively. Yeah, if that was me, I wouldn't be doing  
6 it.

7 EXAMINER JONES: I don't have any more  
8 questions.

9 EXAMINATION

10 BY EXAMINER FESMIRE:

11 Q. Geologically, what's happened here? What  
12 causes this state of development?

13 A. There's many factors. We've taken some core  
14 with some of this stuff, and it is an extremely  
15 complicated rock system here. The best reservoirs are on  
16 the dolomites. They have the best porosity and  
17 permeability. There's intermix of lime, little bits of  
18 chert and other things like that. But you really want to  
19 be in the dolomite, because you get better porosity and  
20 permeability.

21 Q. So secondary mineralization is sort of  
22 critical to that porosity development?

23 A. Yes. The dolomitization process is probably the  
24 biggest. There is some dissolution of fossils and  
25 interparticle porosity in the limestones, but it's not

1 connected, so you get really low permeability numbers.

2 Q. Anybody given any thought to how the dolomite  
3 would respond to a water flood with the horizontal wells  
4 the way they're in there?

5 A. Yeah. There's been some thought to that, and,  
6 basically, that's about it, because there hasn't been  
7 enough -- I think you're going to have to wait until this  
8 whole area gets developed before you start seeing how  
9 that works. But if you were to do that, you'd certainly  
10 want the wells oriented in one direction. And certainly  
11 the prevailing direction in this whole play is on  
12 lay-down units, east to west or west to east.

13 Q. That's the point I was making. But on the  
14 other side, don't you think Cimarex's proposal for the  
15 marginal reserves up on the northern tip of Section 3,  
16 don't you think their proposal would probably better  
17 develop those reserves?

18 A. I don't think that there's very much reserves  
19 to be found up there, to be quite honest with you. If  
20 they wanted to do that, they can drill a south half to  
21 the north half on their own. And you'd have more pay in  
22 that than you would in any of the north/south.

23 Q. That's the point I'm making, that probably --  
24 you know, oriented this way, that probably would be a  
25 marginal, if not a losing well. Whereas developed this

1 way, those reserves -- developed the way they propose,  
2 those reserves would probably be captured, don't you  
3 think?

4 A. With four wells, as opposed to two. That's  
5 what preventing waste is all about, I believe.

6 Q. Your argument is that the drilling four wells,  
7 while it might capture more oil, would not be as  
8 economically viable?

9 A. Correct.

10 Q. How would the ownership change -- well, you're  
11 the wrong one to ask.

12 A. Yeah

13 EXAMINER FESMIRE: Any more questions,  
14 Mr. Hall?

15 MR. HALL: Briefly.

16 REDIRECT EXAMINATION

17 BY MR. HALL:

18 Q. In response to a question from Mr. Fesmire, I  
19 understood you to say that there was nothing preventing  
20 Cimarex from drilling north to south. Is it more  
21 accurate to say there's nothing preventing them from  
22 drilling east to west lay-down units?

23 A. No.

24 MR. HALL: Nothing further.

25 EXAMINER FESMIRE: Ms. Munds-Dry?

1 MS. MUNDS-DRY: Nothing, no.

2 EXAMINER FESMIRE: Mr. Bruce?

3 MR. BRUCE: No, sir.

4 EXAMINER JONES: Okay.

5 MR. HALL: That concludes our examination  
6 of this witness.

7 We would call Barbara Slaton to the stand.

8 EXAMINER JONES: Can we take a break for  
9 about 10 minutes?

10 EXAMINER FESMIRE: Sure.

11 (A recess was taken.)

12 EXAMINER FESMIRE: The record should  
13 reflect that the Hearing Examiners have returned and that  
14 we've gone back on the record.

15 I believe, Mr. Hall, you had one more witness?

16 MR. HALL: Yes, sir. We call Barbara  
17 Slaton to the stand.

18 EXAMINER FESMIRE: Ms. Slaton, you've been  
19 previously sworn in this case?

20 MS. SLATON: Yes.

21 BARBARA SLATON

22 Having been first duly sworn, testified as follows:

23 DIRECT EXAMINATION

24 BY MR. HALL:

25 Q. For the record, please state your name.

1           A.     Barbara Slaton.

2           Q.     Ms. Slaton, where do you live, and by whom are  
3     you employed?

4           A.     I live in Midland, Texas, and I'm employed by  
5     COG Operating, LLC.

6           Q.     In what capacity?

7           A.     Senior reservoir engineer.

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

10          A.     I have not.

11          Q.     Why don't you give the Examiners a brief  
12     overview of your educational background and work  
13     experience.

14          A.     I have a B.S. in chemical engineering from the  
15     University of Pittsburgh. I have 29 years' industry  
16     experience, primarily with Marathon Oil, Burlington  
17     Resources, Conoco Phillips, and now COG Operating.

18          Q.     Are you familiar with the lands and the  
19     proposed wells that are the subject of the applications  
20     we're hearing today?

21          A.     Yes, I am.

22                   MR. HALL: At this point, Mr. Examiner,  
23     we'd offer Ms. Slaton as a qualified expert in petroleum  
24     engineering.

25                   EXAMINER FESMIRE: Mr. Bruce, any



1 objection?

2 MR. BRUCE: No, sir.

3 EXAMINER FESMIRE: Ms. Slaton, are you a  
4 licensed petroleum engineer?

5 THE WITNESS: I am not.

6 EXAMINER FESMIRE: Notwithstanding that, I  
7 think her qualifications be accepted as an expert in  
8 petroleum engineering.

9 Q. (By Mr. Hall) Ms. Slaton, have you conducted  
10 an engineering evaluation to reach an opinion whether the  
11 reserves underlying Section 3 can be efficiently and  
12 economically recovered with two wells drilled on lay-down  
13 units in the south half/south half of the section?

14 A. Yes, I have.

15 Q. Tell us what your opinion is.

16 A. I believe that the most effective way to  
17 develop the reserves in Section 3 is by the drilling of  
18 two east/west lay-down units on 160-acre spacing.

19 Q. And do you have an opinion whether developing  
20 Section 3 with four stand-up unit wells would result in  
21 the drilling of unnecessary wells?

22 A. Yes, I believe so.

23 Q. And would waste result?

24 A. Yes, it would.

25 Q. From a petroleum engineering perspective, have

1 you compared the potential relative drainage areas of the  
2 stand-up non-standard units being proposed for Cimarex  
3 wells versus the lay-down units that COG is proposing?

4 A. Yes.

5 Q. Tell us about the results of your comparison.  
6 Let's look at Exhibit 14.

7 A. Exhibit 14 shows that the proposed development  
8 by COG Operating showing that two lay-down units would  
9 effectively cover all -- every -- all portions of that  
10 lateral is within effective, productive reservoir rock.  
11 So those two wells would fully develop what we believe to  
12 be productive reservoir rock in that section.

13 Q. And let's look at Exhibit 15. What does this  
14 show us?

15 A. This is what the proposed Boxer Federal wells  
16 would look like. If we honor the pinch-out, we do honor  
17 that pinch-out, I believe that those four wells would not  
18 be fully drilled within producing reservoir rock. And  
19 I've assigned some expected drainage areas to those.  
20 Moving from east to west, the first well would drain 90,  
21 then the next two wells would drain 100 acres, and the  
22 last well would drill 80 acres. So you compare the 320  
23 acres drained by two wells versus four wells that it  
24 would take to drain 370 acres.

25 Q. Now, did you take your drainage areas for both

1 the lay-down and stand-up wells and apply an economic  
2 analysis to that?

3 A. Yes.

4 Q. And tell us about that. Let's look at  
5 Exhibit 16.

6 A. Yes. What I did for this was I just took a  
7 type-curve well that's sort of an average for this play,  
8 applied drainage area of 160 acres to the base well, and  
9 then reduced the recoverable reserves based on the  
10 percentage of acreage being drilled.

11 I ran cases, economic cases. I did it both at  
12 Cimarex's AFE costs and at Concho's because they are  
13 different. What you can see very clearly is the  
14 economics of 160-acre well with a 49.6 rate of return is  
15 very, very robust economics. But as you move down and  
16 decrease what you actually recover in those wells, your  
17 economic -- your rate of return is destroyed very quickly  
18 to the point where, in my opinion, it's not economic to  
19 drill those wells.

20 Q. Why don't you run through the rates of return  
21 for each of those perspective drainage areas.

22 A. 160-acre well at Cimarex's AFE cost is a  
23 49.6 percent rate of return. The hundred-acre well would  
24 be a 12.2 percent. A 90-acre drainage area, 7.4 percent.  
25 And finally, the 80-acre drainage radius would get you

1 2.2 percent rate of return.

2 Q. Does Concho utilize a minimum rate of return  
3 economic criterion to decide whether it goes forward with  
4 the project?

5 A. Yes, we do. We have a bare-bones minimum, if  
6 you will, of 20 percent rate of return. But when we have  
7 competing projects for our money, we certainly prefer  
8 something closer to 40 percent rate of return for our  
9 money.

10 Q. And if we applied that economic criterion to  
11 the four well proposals of Cimarex, would all of them get  
12 drilled?

13 A. None of them would get drilled.

14 Q. Is Cimarex's proposal to establish stand-up  
15 drilling units consistent with the prevailing development  
16 pattern in the area?

17 A. No, it is not.

18 Q. Is this a concern?

19 A. It's very much a concern for us. We feel like  
20 it introduces an element of risk. When you move away  
21 from what's the standard analogous way of developing a  
22 reservoir, you greatly introduce risk into that equation,  
23 certainly magnified by the risk of the dryhole that's  
24 directly offsetting this acreage.

25 Q. Is Concho a publicly-traded company? Is that

1 right?

2 A. Yes, we are.

3 Q. Is inconsistent development a concern to a  
4 publicly-traded company?

5 A. Let's talk about it through the lens of how we  
6 deal with the SCC on our reserve bookings for horizontal  
7 wells. The SCC will only allow a proved offset if it is  
8 parallel to an existing producing well. When you go  
9 perpendicular, they no longer see that as a proved  
10 reserve. They downgrade your reservoir category. And  
11 they do that because that's how they quantify risk in the  
12 SCC world, is based on your reserve category.

13 So by drilling off the analogous way of doing  
14 things, where you're not parallel to the producing well,  
15 you're not going to be able to call that offset well a  
16 proved location. Because we're a publicly-traded  
17 company, our value is tied into our proved reserves that  
18 we're able to book. So we would see that as definitely a  
19 destruction in value.

20 EXAMINER FESMIRE: That's only if you hold  
21 that in inventory as an undeveloped location; right? The  
22 proposal here is to drill it, is it not?

23 THE WITNESS: Well, once you drill it,  
24 certainly you can. As long as it's on your books, you  
25 definitely prefer a proved reserve on your book as

1     opposed to a non-proved.

2           Q.     (By Mr. Hall)   What are the relative impacts  
3     to the surface when you compare developing Section 3 with  
4     two lay-down wells versus four stand-up?

5           A.     We believe that it would have much more -- or  
6     less impact on the surface area, the footprint, if you  
7     will.   We can develop the same reserves with two pads for  
8     drilling location.   And because there's common ownership  
9     in the south half of that section, we would only need to  
10    build one tank battery.   So that reduces the number of  
11    flow lines, roads, things like that.   The two wells go to  
12    one common battery under the east/west development.

13                   It's my understanding that when you drill the  
14    four wells, not only will you have four pads of  
15    footprint, but will be multiple batteries because of some  
16    ownership issues.   So you'll probably have twice the  
17    impact, if not more, on the surface with the four-well  
18    multibattery completion, as opposed to our two-well,  
19    single battery development.

20           Q.     Let's refer back to Exhibit 5.   Could you  
21    review those dryhole and completed well costs for the  
22    Hearing Examiner shown in Exhibit 5?

23           A.     Yes.   This is for Leo 3 Number 1.   The dryhole  
24    cost is \$2.1 million, and the completed cost is \$4.5  
25    million.

1 Q. And are these costs in line with what other  
2 operators are charging in the area?

3 A. Yes, they are.

4 Q. Has COG made an estimate of the overhead and  
5 administrative costs while drilling and producing the  
6 well?

7 A. Yes. The overhead administrative cost while  
8 drilling are \$6,500 a month, and while producing, \$650 a  
9 month.

10 Q. And are those overhead charges in line with  
11 what's being charged in the area by other operators?

12 A. Yes.

13 Q. Are you recommending that those producing and  
14 drilling overhead rates be incorporated into the  
15 Division's order from this hearing?

16 A. Yes.

17 Q. Are you asking the Division to enter an order  
18 that provides for adjustment to those rates in accordance  
19 with the then current COPUS bulletin?

20 A. Yes.

21 Q. If you look back at some of the area activity  
22 maps or even the isopach map, do you see any impediment  
23 to Cimarex's geology, notwithstanding to their drilling  
24 lay-down unit wells in the north half of Section 3?

25 A. No.

1 Q. Your Exhibit 16 reflects the AFE costs for  
2 both Cimarex and COG. If you want to refer back to those  
3 numbers, they are somewhat different, are they not?

4 A. Yes, they are.

5 Q. Can you compare those rates for the --

6 A. Yes, I think I can. When you lay the AFEs  
7 side by side, you see a lot of minor differences.  
8 Probably the significant major differences in AFE costs  
9 are in the rotary steerable equipment that we use, that  
10 Mr. Gawloski referred to earlier, which greatly helps us  
11 steer and reduce our time in drilling, but there's a cost  
12 for that to use those tools.

13 We also put higher dollars in for completion  
14 costs than Cimarex does. And at the bottom line, they  
15 only put a 5 percent contingency on their AFE versus a  
16 10 percent that COG uses. So those are the significant  
17 differences in the 3.8 versus 4.5 million AFE cost.

18 Q. In your view, those AFEs, do they compare  
19 favorably?

20 A. Yes, they do.

21 Q. Ms. Slaton, were Exhibits 14, 15, and 16  
22 prepared by you or at your direction?

23 A. Yes.

24 MR. HALL: We move admission of Exhibits  
25 14, 15, and 16. And that concludes our direct of the



1 witness.

2 MS. MUNDS-DRY: No objection.

3 MR. BRUCE: No objection.

4 EXAMINER FESMIRE: Exhibits 14, 15, and 16  
5 will be admitted.

6 Ms. Munds-Dry, do you have questions of this  
7 witness?

8 (COG Exhibits 14, 15, and 16 were admitted.)

9 MS. MUNDS-DRY: No, sir.

10 EXAMINER FESMIRE: Mr. Bruce?

11 MR. BRUCE: Just a couple.

12 CROSS-EXAMINATION

13 BY MR. BRUCE:

14 Q. Ms. Slaton, you know, your Exhibit 15, this is  
15 based on what you call effective pinch-out. If this line  
16 is further north, then this chart is incorrect?

17 A. If it's further south, it's also incorrect.

18 Q. The reason I ask that is because your  
19 effective pinch-out line seems a lot further -- moves a  
20 lot further south than Mr. Gawloski's pinch-out.

21 A. There needs to be a minimum amount of  
22 reservoir to make a productive well. So three feet is  
23 not going to do it. You need probably 10, 15, 20 feet to  
24 be an effective producing well.

25 Q. Well, looking at Mr. Gawloski's Exhibit 10, a

1 well -- let's say Cimarex was forced to drill a south  
2 half/north half well. According to his own map, that  
3 doesn't look -- the south half/north half of Section 3  
4 doesn't look much different than the Cimarex Yorktown  
5 well in Section 12 or COG's wells proposed or otherwise  
6 down in Section 15, nor does it look much different than  
7 some of the Cimarex wells, Ticonderoga wells in Section  
8 16, does it?

9 A. I think our interpretation would be that it  
10 does look different than those wells, because of the  
11 thickness that you encounter along the length of the  
12 lateral.

13 Q. I'm looking at his plat. Show me where  
14 there's a difference.

15 MR. HALL: I'm going to object at this  
16 point, Mr. Examiner. This is beyond the scope of this  
17 witness's direct testimony. They're questions better  
18 directed to the geologist.

19 EXAMINER FESMIRE: I think Mr. Bruce does  
20 make a point. One of the witnesses is using a certain  
21 pinch-out and another witness is using a different  
22 pinch-out. I think he's entitled to explore the  
23 difference.

24 A. The pinch-out that I was provided in my  
25 exhibits came from Mr. Gawloski, where he felt that was

1 effective reservoir. The existence of reservoir in and  
2 of itself is not sufficient to be economic, so that is  
3 what we would say would be --

4 Q. (By Mr. Bruce) What he provided to you is  
5 different than this plat.

6 A. He provided that plat and also provided my  
7 exhibit -- the base of my exhibit with that purple line  
8 on it was his effective reservoir pinch-out.

9 Q. Again, a well in the south half/north half of  
10 Section 3 would pretty much have 40 feet of reservoir,  
11 and you are totally discrediting that in your exhibits,  
12 certainly in your Exhibit 15.

13 MR. HALL: Objection, argumentative.

14 EXAMINER FESMIRE: I'll sustain that one.

15 Q. (By Mr. Bruce) I'm asking you, if you're  
16 looking at Mr. Gawloski's Exhibit 10, he pretty much  
17 shows a location that Cimarex would drill in the south  
18 half/north half that would have approximately 40 feet,  
19 which is similar, is it not, to a number of other wells  
20 that are drilled and/or proposed?

21 A. Could you pick a specific well, please, that  
22 we could compare to?

23 Q. Sure. I already pointed some out. The  
24 Yorktown --

25 A. I would like for you to repeat that, please.

1 Q. The Yorktown Fee in Section 12.

2 A. Number 1 or Number 2?

3 Q. The one that's been completed.

4 A. Right, the Number 2. If you will see, that  
5 actually gets into some very thick reservoir. Towards  
6 the end of that wellbore, it actually gets into some 60  
7 feet of pay. And we've demonstrated over here with the  
8 Marshall & Winston well that was drilled on the pinch-out  
9 that actually made a good well that if you can get into  
10 that thick, you can make a decent well. But if you stay  
11 in the thin or if it's not present at all, you really do  
12 run the risk of having that.

13 Q. So the Marshall & Winston well you're talking  
14 about is in Section 8?

15 A. That's correct.

16 Q. That well looks geologically inferior to a  
17 south half/north half well in Section 3, does it not?

18 A. No. Because you're still in -- you're high in  
19 the higher than 40 line on that one; whereas, if you go  
20 south half of north half, you barely skim the 30 line, so  
21 it's much thinner.

22 Q. I guess what I'm asking is, then, in Section  
23 15, the Hercules Federal, are those COG proposals?

24 A. Yes.

25 Q. Well, those look inferior also to a south

1 half/north half of Section 3 well.

2 A. I disagree with your interpretation.

3 Q. It's going through the 20-foot line.

4 EXAMINER FESMIRE: Mr. Bruce, you made  
5 your point. Go ahead and move on.

6 MR. BRUCE: Okay.

7 Q. (By Mr. Bruce) Because the north boundry line  
8 of this reservoir is not determined, this is all  
9 speculative at this point?

10 A. That's where the risk comes in.

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

13 EXAMINATION

14 BY EXAMINER JONES:

15 Q. Can you state one more time -- I spaced it  
16 out -- the drilling rate that you're asking for and the  
17 producing rate?

18 A. The overhead?

19 Q. The dollars.

20 A. 6,500 a month for drilling, and 650 for  
21 producing.

22 Q. Okay. Is this up on the cap? It's 10 miles  
23 north of Maljamar. Does that mean it's right on top of  
24 the cap, or is this still off in the --

25 A. I don't know the physical location.

1 Q. That's probably not a big deal. So it looks  
2 like on these horizontal wells in this Abo -- you're  
3 calling it Abo, too; right?

4 A. Abo/Wolfcamp.

5 Q. Your geologic risk is low, but your commercial  
6 risk is pretty -- is what gets you on this; right?  
7 Because you're spending a lot of money for these wells,  
8 and yet commercially, they've got -- you've got to pay  
9 that out, and you've got to -- so the well path  
10 themselves, is it dependent on the reservoir, I take it,  
11 the dip of the reservoir? Or do you try to design them  
12 to where the bottomhole location of your well is higher  
13 than where it enters the reservoir, where your well path  
14 enters it, so you can get your drainage to your pump  
15 better that way?

16 A. Yes. You definitely want that sump.

17 Q. You try to do that?

18 A. Yes.

19 Q. Is that affected here by the orientation of  
20 the well of your choice of orienting it east/west?

21 A. No.

22 Q. Is it because you're in the thinner part of  
23 the reservoir so you can't control that anyway, or would  
24 you still try to do that?

25 A. To geosteering? Is that what you're --

1 Q. What I mean is, your bottomhole location, you  
2 want it to drain down to your vertical part of your well;  
3 right?

4 A. Um-hum.

5 Q. So is that desire to do that affected by the  
6 orientation that you pick on the well, whether it's  
7 north/south or east/west in this area?

8 A. I think your biggest job is trying to hit  
9 thickest pay.

10 Q. I don't know if we saw a structure map here.  
11 We saw --

12 A. Isopach.

13 Q. Okay. And what's the fracture direction out  
14 here?

15 A. That's a very good question. There's been  
16 some work done with FMIs, and there's really not a very  
17 clear picture of fracture orientation. I think it's very  
18 inconclusive at this point to say.

19 It's my understanding there are some wells  
20 that have minimal fractures at all that are drilled  
21 through, where they see just a handful of fractures.

22 Q. If you don't have any fractures, do you still  
23 get decent production?

24 A. With stimulation.

25 Q. So you can actually put a big frac job on it

1 or stages of fracs?

2 A. Yes, multiple stages, 10 plus stages of  
3 fracturing.

4 Q. What about the stress direction? Does that  
5 correspond with the fracture direction? In other words,  
6 you're trying to intersect your -- which stress direction  
7 are you trying to drill the well in in order to get your  
8 completion -- successful completion on the well?

9 A. Again, there's a lot of discussion about what  
10 that is, and I don't think the answers are conclusive, or  
11 I'm not the person to answer that. That may be more the  
12 geologist.

13 Q. So they would be looking to the FMIs and  
14 everything, but they -- we already heard the predominant  
15 direction is east/west out here, but your frac jobs, you  
16 think they go alongside the wellbore, or they go orthodox  
17 to the wellbore?

18 A. We've had success. I think it's hard to argue  
19 with the success we've seen with the frac job designs  
20 we've been using and the well orientation we've been  
21 using.

22 Q. I guess you'll have completion engineers here  
23 to testify today. Okay. If you have success, that's  
24 always a good thing.

25 What discount factor did you use on these



1 economics? Just ballpark. I don't need to know COG's --

2 A. That's a PB10.

3 EXAMINER JONES: Okay. I don't have any  
4 more questions.

5 EXAMINATION

6 BY EXAMINER FESMIRE:

7 Q. Ms. Slaton, for the two wells that you're  
8 proposing, what's the expected EUR for each of them?

9 A. I think I'd rather talk in terms of ranges. I  
10 think we could expect between 200 and 400 MBOEs per well  
11 based on this interpretation, which I agree with.  
12 Certainly the lower well, the southern-most well, would  
13 probably have higher EUR than the northernmost, because  
14 it is contacting thicker reservoir rock.

15 Q. You're expecting them to average between 2-  
16 and 400 EUR?

17 A. That's correct. That's our play average.

18 Q. Have you run the potential reserves on the  
19 Cimarex orientation?

20 A. Yes. That's the exhibit that you're seeing.  
21 I took the type curve model and reduced the recoveries,  
22 assuming that 100 percent recovery is a 160-acre well;  
23 therefore, an 80-acre well would be half the recovery.  
24 And that was run on a 250 MBOE model, but that's just the  
25 model that I selected, not necessarily what I would

1 assign to these specifics wells.

2 Q. I guess I understood wrong. Did you hold the  
3 reserves constant for both the four-well case and the  
4 two-well case?

5 A. No.

6 Q. No?

7 A. No. It's a volumetric equation with 160 acres  
8 of recovery versus 80 acres or 100 or 90. So the  
9 reserves are proportionately reduced based on reduced  
10 volumetric.

11 Q. You're estimating that your wells will drain  
12 160 acres and that their wells will -- that's the --

13 A. 16, yeah.

14 Q. I guess what I'm getting at is how much more  
15 oil would be recovered under the Cimarex proposal down to  
16 the economic limit in all the cases?

17 A. I'm sorry. I don't understand your question.  
18 They would recover less oil than the Concho wells.

19 Q. They would recover less oil than --

20 A. An individual well; that's correct.

21 Q. But the four wells, the total, what would  
22 be --

23 A. The exhibit -- I think it's 320 acres for two  
24 wells for COG, and 370 acres for four wells for Cimarex.

25 Q. So since we don't have a constant thickness

1 here, how much oil would be recovered under the Cimarex  
2 proposal?

3 A. I need a calculator. You have 20 more acres,  
4 whatever you get for an additional 20 acres. I would say  
5 it's negligible additional oil to be recovered at the  
6 cost of drilling four wells to get 20 more acres worth of  
7 reserves.

8 Q. 20 acres, what thickness?

9 A. The same thickness in all wells. I just  
10 assumed a constant thickness.

11 Q. We go, essentially -- you know, in your wells,  
12 you got a 30-foot plus -- no, 50-foot plus on one of them  
13 and probably 60 on the other. Their wells are going to  
14 average somewhere in the neighborhood of 35; right?

15 A. Right. I won't argue with you that if you get  
16 down to trying to do volumetric well-by-well analysis,  
17 you will get different EURs for each well. We don't have  
18 the data to do that. I tried to keep it simple to  
19 express a point of virtually the same reserves can be  
20 developed with two wells as could be developed with four  
21 wells.

22 Q. But you're starting with that presumption.  
23 I'm saying by drilling four wells, you're going to drain  
24 more of the reservoir. And what would not be  
25 economically viable under your proposal would be

1 recovered under their proposal; right? Is there any way  
2 we can quantify that oil that's not going to be produced  
3 by development with two wells instead of four?

4 A. Actually, I believe that we would eventually  
5 drain more than 320 acres. If no one comes in and  
6 competes with us in that north half with an east/west  
7 well, we'll recover those barrels with our well. So it's  
8 a time thing. It becomes a value issue and how long you  
9 want to take to get it.

10 Q. So their proposal would essentially be an  
11 acceleration project? Is that what you're saying?

12 A. No, I don't agree with that so much. Because  
13 I feel like the idea of having to drill four wells to get  
14 essentially the same amount of oil is uneconomic. So  
15 while you may get reserves back faster, it's -- you know,  
16 double the cost is not offsetting the fact that you get  
17 those reserves out a little faster.

18 Q. I'm saying, looking at the two proposals,  
19 you're going to produce under your proposal X number of  
20 reserves; right? And if things are done the way Cimarex  
21 is proposing, they're going to recover Y number of  
22 reserves. Do you know what that difference is?

23 A. It would be the difference between -- well,  
24 I'm reluctant to go there in a specific well-by-well  
25 situation, because we don't really have the data to say

1 what those thicknesss are along the lines of the lateral.

2 Q. I'm saying if it is as mapped by your  
3 geologist, and you've expressed a lot of confidence in  
4 that map.

5 A. We will recover the same amount of reserves  
6 they recover eventually --

7 Q. Okay.

8 A. -- provided there's no offset well drilled.

9 Q. Okay. I'm curious about the difference in  
10 drilling. With the way you do it with the steerable --

11 A. Rotary steerable.

12 Q. -- rotary steerable, you're able to, within 40  
13 or 50 feet, apparently, identify the rock that you're  
14 drilling into; is that correct?

15 A. That's correct.

16 Q. So if Cimarex does this, and the isopach is  
17 correct, they're going to be able to save substantial  
18 money off their AFEs because they're going to see they're  
19 outside of the producing horizon and save, you know, that  
20 length of lateral; is that correct?

21 A. No. They're still -- they're drilling from  
22 north to south, so they're still going to have --

23 Q. Okay. You're right. I'm sorry. So by your  
24 map, they're going to be drilling through barren  
25 formation before they get to the pay; right?

1           A.       Correct.

2                   EXAMINER FESMIRE:  No further questions.

3                   Mr. Hall, do you have anything?

4                   MR. HALL:  Nothing further of this  
5 witness.  In view of the additional line of questioning  
6 that's come up with respect to geologic issues, we'd like  
7 to recall Mr. Gawloski.

8                   EXAMINER FESMIRE:  Any objection,  
9 Mr. Bruce?

10                  MR. BRUCE:  Yeah, I think I'll object.  
11 They could have addressed this on direct.

12                  EXAMINER FESMIRE:  They're calling a  
13 rebuttal witness.

14                  MR. BRUCE:  To his own witness.

15                  EXAMINER FESMIRE:  Actually, to my  
16 questions.

17                  MR. BRUCE:  Go ahead.

18                  EXAMINER FESMIRE:  Okay.

19                  MR. HALL:  We recall Mr. Gawloski to the  
20 stand.

21                  EXAMINER FESMIRE:  Mr. Gawloski, you've  
22 been previously sworn in this case?

23                  MR. GAWLOSKI:  Yes, sir.

24                               TED GAWLOSKI

25           Having been first duly sworn, testified as follows:

REBUTTAL EXAMINATION

BY MR. HALL:

Q. Mr. Gawloski, would you take Exhibits 10 and 15 before you -- or 14 or 15?

A. Okay.

Q. So which do you have before you? 10 and 14?

A. Yes.

Q. Would you explain to the Hearing Examiners how you arrived at your location for your Abo/Wolfcamp pinch-out lines on Exhibit 10 and then on Exhibit 14?

EXAMINER FESMIRE: This is in rebuttal to Mr. Bruce's question?

MR. HALL: Yes. And it also goes to some of the new questions raised by Mr. Jones with respect to geology.

EXAMINER FESMIRE: Mr. Bruce, normally we put this after your case. Do you have any objection to receiving it this way?

MR. BRUCE: No. Go ahead.

EXAMINER FESMIRE: Thanks. Go ahead.

Q. (By Mr. Hall) Let's compare Exhibits 10 and 14. If you would compare the lines you've indicated for the pinch-out of the Abo/Wolfcamp Formation in each of those exhibits, explain to the Hearing Examiners how you arrived at the locations for each of those contour lines.

1           A.       Basically, the line in Exhibit 14 is roughly  
2       where the 20-foot contour is on Exhibit 10. Basically,  
3       you know, an effective pinch-out is not all the way to  
4       zero. I feel you have to have at least 20 feet to get  
5       any -- to get substantial reserves to make a well.

6                    That Marshall & Winston well is 14 feet. That  
7       wouldn't have made it -- if they had 14 feet through that  
8       lateral, that probably would not have made a good well at  
9       all. That's what they're referring to, this effective  
10      pinch-out.

11           Q.       What is the significance of any reservoir with  
12      less than 20 feet of thickness to your company?

13           A.       Well, it would be a well that would definitely  
14      have to get looked at hard as to whether or or not it  
15      would be productive.

16                    And Mr. Bruce did bring up, you know, another  
17      part of the map. We're actually looking at -- we haven't  
18      drilled those Hercules locations in the Number 4, and  
19      we're actually looking at that to see if that would be an  
20      economical place to drill. So we had that new control  
21      point from the well we drilled up in the north part of  
22      that section, so it's new data and we have not drilled  
23      that well yet.

24           Q.       Ms. Slaton was asked about her knowledge of  
25      the stress and fracture directions in the area based on



1 FMI studies. Do we have any additional information with  
2 respect to that?

3 A. I have looked at some FMI data that was  
4 throughout the play. There's not a whole lot of it, but  
5 what was there was inconclusive.

6 First of all, there was very little fractures  
7 even in the reservoir. Most of them -- one of them had  
8 only one, which is not even enough to conduct a really  
9 decent study. Some of them had two and three and four,  
10 and their orientation was northwest, southeast, you know,  
11 diagonals, like this. Which if you went perpendicular,  
12 the stress would be in between. So it was conflicting  
13 data. So we didn't change our direction of drilling,  
14 because we've had really good success drilling it that  
15 way. So that data did not change our interpretation of  
16 how we should be drilling the wells.

17 MR. HALL: Nothing further, Mr. Examiner.

18 MS. MUNDS-DRY: No questions.

19 EXAMINER FESMIRE: Mr. Bruce?

20 REBUTTAL CROSS-EXAMINATION

21 BY MR. BRUCE:

22 Q. Mr. Gawloski, looking down in Section 15, you  
23 mentioned the Hercules Federal Number 4 --

24 A. Um-hum.

25 Q. -- that you would have to look at that. What

1 about the Hercules Federal Number 3?

2 A. We probably -- we have the second Hercules  
3 well that we're going to drill -- or proposed -- and we  
4 would evaluate that to see how that would look before we  
5 would proceed into the other wells.

6 MR. BRUCE: That's all I have.

7 EXAMINER FESMIRE: Real quick question.

8 Again, on the transfer of the isopach to the  
9 reservoir exhibit, just in the shape, going from the  
10 section line between the middle of 3 to the -- let's not  
11 go there.

12 I have no questions. Mr. Hall?

13 MR. HALL: Mr. Examiner, I have one  
14 additional exhibit to tender into the record, our Exhibit  
15 17, our notice affidavit for Case 14500. We move the  
16 admission of Exhibit 17, and that concludes our case.

17 EXAMINER FESMIRE: Mr. Hall, are you going  
18 to authenticate the exhibit?

19 MR. HALL: It's my affidavit,  
20 self-authenticate.

21 EXAMINER FESMIRE: Okay. Mr. Bruce, any  
22 objection?

23 MR. BRUCE: I don't have any -- I will ask  
24 permission to ask Mr. Hall a question.

25 EXAMINER FESMIRE: It's his affidavit. I

1 think that would be proper in this case.

2 MR. BRUCE: Mr. Hall, is this simply the  
3 affidavit of notice to the parties being pooled?

4 MR. HALL: It is, known at the time of the  
5 filing of the application.

6 EXAMINER FESMIRE: You still have one  
7 party to notice?

8 MR. HALL: That's correct. That's why  
9 we're asking the record to be kept open, I think, until  
10 September 5th or beyond, to allow us to provide  
11 additional notice to those recently discovered parties  
12 and make well proposals to them.

13 EXAMINER FESMIRE: Any objection?

14 MR. BRUCE: I don't mind it being kept  
15 open until the 5th. I think it might need to be kept  
16 open longer than that. But we'll continue it to the 5th,  
17 and we'll deal with it at that time.

18 MR. HALL: That concludes our direct in  
19 Case 14500.

20 EXAMINER FESMIRE: Exhibit 17 will be  
21 admitted.

22 Ms. Munds-Dry, you've got two witnesses?

23 (COG Exhibit 17 was admitted.)

24 MS. MUNDS-DRY: Yes, sir. I'd like to  
25 call Mr. Zerkle.

1 EXAMINER FESMIRE: Mr. Zerkle, you've been  
2 previously sworn in this case?

3 MR. ZERKLE: Yes.

4 EXAMINER FESMIRE: Would you be so kind as  
5 to, again, spell your name for the court reporter?

6 MR. ZERKLE: Z-e-r-k-l-e.

7 JUSTIN ZERKLE

8 Having been first duly sworn, testified as follows:

9 DIRECT EXAMINATION

10 BY MS. MUNDS-DRY:

11 Q. Would you please state your full name for the  
12 record.

13 A. Justin Zerkle.

14 Q. Where do you reside?

15 A. Oklahoma City, Oklahoma.

16 Q. By whom are you employed?

17 A. Chesapeake Energy.

18 Q. What is your position?

19 A. Landman.

20 Q. And have you previously testified before the  
21 Division?

22 A. I have not.

23 Q. Would you review for the Examiners your  
24 education and work history?

25 A. I graduated with a bachelor of arts from

1 Anderson University in Anderson, Indiana, with a degree  
2 in finance and investments. I then began work with  
3 Chesapeake in 2005 in lease records, and have worked my  
4 way up to landman, and I'm a landman of New Mexico for  
5 all of Chesapeake's assets.

6 Q. You've been recently appointed all the  
7 New Mexico territory of Chesapeake; is that correct?

8 A. That's correct.

9 Q. Are you familiar with the applications that  
10 have been filed on behalf of Cimarex and COG?

11 A. Yes.

12 Q. Are you familiar with the status of the lands  
13 that Chesapeake has ownership interest in in Section 3?

14 A. Yes.

15 EXAMINER FESMIRE: Ocean, do we need to  
16 certify him?

17 MS. MUNDS-DRY: I was going to do that  
18 with my very next question.

19 We would tender Mr. Zerkle as an expert in  
20 petroleum land matters.

21 EXAMINER FESMIRE: Mr. Zerkle, do you hold  
22 any of the CPL certifications or anything like that?

23 THE WITNESS: I do not.

24 EXAMINER FESMIRE: Withstanding that, is  
25 there any objection?

1 MR. BRUCE: No, sir.

2 MR. HALL: No objection.

3 EXAMINER FESMIRE: He will be so admitted.

4 Q. (By Ms. Munds-Dry) Would you briefly  
5 summarize the basis for Chesapeake's objection to the  
6 Cimarex applications for the Boxer Wells?

7 A. Chesapeake supports and has elected to  
8 participate with COG's application for the Leo 3 Fed Com  
9 Number 1H, located in the south half of the south half of  
10 Section 3, 15 South, 31 East. And, therefore, because of  
11 that, we object to Cimarex's applications for their Boxer  
12 3 wells in the east half/east half and the west half of  
13 the east half.

14 Q. And as you understand it, what is the primary  
15 reason that Chesapeake decided to join with COG on its  
16 Leo well?

17 A. It was primarily geological interpretation,  
18 and we believe through the geology that the south  
19 half -- the lay-downs that COG has proposed is what we  
20 would like to pursue and participate with.

21 Q. Will Chesapeake be calling a geology expert to  
22 further explore its reasons for joining --

23 A. Yes.

24 Q. If you could please turn to what's been  
25 marked --

1 MR. BRUCE: And we're going to take these  
2 out of order, Mr. Examiners, so you know that we did that  
3 on purpose.

4 Q. (By Mr. Bruce) Turn to what's been marked as  
5 Chesapeake Exhibit 4. What is Chesapeake -- if you could  
6 identify this exhibit and then tell the Examiners what  
7 Chesapeake's ownership is in Section 3.

8 A. What you're looking at is an ownership plot of  
9 Section 3. Chesapeake owns 50 percent in the southwest  
10 quarter and 12-and-a-half percent in the west half of the  
11 southeast quarter. Chesapeake does not own an interest  
12 in the east half of the southwest quarter.

13 Q. And the gray in the north half of Section 3?

14 A. That's based off of just internal ownership.  
15 And because we don't have title, that's what our best  
16 guess was at this time.

17 Q. Thank you. If you could turn to what's marked  
18 as Chesapeake Exhibit Number 1 and identify and review  
19 this set of documents for the Examiners.

20 A. Yes. This is Cimarex's proposal that we  
21 received on April 8th. This is for their Boxer 3 Fee  
22 Number 3 well located in the west half/east half.

23 Q. Is Exhibit Number 1 a packet constituting a  
24 summary of communications that you had with Cimarex?

25 A. Yes. We received the proposal letter and an

1 AFE.

2 Q. So that, I believe you said, was the letter  
3 dated April 8th?

4 A. Correct.

5 Q. And what would Chesapeake's interest be in the  
6 Boxer 3 Fee Number 3 well?

7 A. Approximately 6.2 percent.

8 Q. And if you could turn to the bottom of the  
9 letter, I believe in that last paragraph. What does the  
10 last sentence in that next-to-the-last paragraph state?

11 A. "An operating agreement identical in form to  
12 that previously agreed upon and entered into between  
13 Cimarex and Chesapeake will follow under separate cover."

14 Q. Did Chesapeake receive an operating agreement  
15 from Cimarex?

16 A. Yes.

17 Q. When was that?

18 A. We received it approximately June 25th or  
19 26th.

20 Q. Is the fourth page the cover letter with that  
21 operating agreement that was sent to Chesapeake?

22 A. Yes.

23 Q. I believe the 5th and 6th page is the  
24 signature page and the cover page that was sent to the  
25 operating agreement; is that correct?



1           A.     Yes.

2           Q.     Did you or any other landman from Chesapeake  
3 have any other communications with anyone at Cimarex  
4 regarding this proposal?

5           A.     Yes.   Hugh Brower was the previous landman  
6 that oversaw this area, and I took this area over in late  
7 June.   Hugh Brower had a conversation with Hayden Tresner  
8 on June 18th, and Hugh communicated to Hayden that  
9 Chesapeake had elected to participate with COG's proposal  
10 in the south half of the south half, and, therefore,  
11 would elect to participate with Cimarex's proposal in the  
12 west half of the east half.

13          Q.     I believe on your first letter from Cimarex,  
14 the April 8th letter, it's Mr. Tresner that signed the  
15 letter of the well proposal; is that correct?

16          A.     Yes.

17          Q.     If you would turn to what's marked Chesapeake  
18 Exhibit 2 and identify this set of documents for the  
19 Examiners.

20          A.     This is the proposal that Concho had sent to  
21 Chesapeake dated April 22nd, and Chesapeake received it  
22 April 26th.   This is COG's proposal to drill the Leo 3  
23 Fed Com 1H, located in the south half/south half of  
24 Section 3, 15 South, in Chaves County.

25          Q.     Did they include an AFE?

1           A.     Yes. Their proposal included an AFE and a  
2     proposed operating agreement.

3           Q.     What is the third page of this exhibit? What  
4     is this document? The fourth page. I'm sorry.

5           A.     This is the election letter that Hugh Brower,  
6     my predecessor, executed informing COG that Chesapeake  
7     elected to participate with Concho's proposed Leo 3 Fed  
8     Com 1H.

9           Q.     What date is on the letter?

10          A.     May 25th.

11          Q.     If we turn three more pages beyond that,  
12     there's a letter dated July 8th. What is this letter?

13          A.     This is the follow-up letter. Chesapeake  
14     elected to participate in Concho's Leo 3 Fed Com 1H.  
15     Hugh Brower and Jan Spradlin were working out some minor  
16     details as far as the language in the joint operating  
17     agreement. Therefore, when I took over the area, the  
18     operating agreement was executed by Chesapeake, and we  
19     sent those executed pages to Concho.

20          Q.     And besides these letters, did you or  
21     Mr. Brower have any other communications with, I guess it  
22     would be Ms. Spradlin at COG?

23          A.     Yes. We had communications to discuss how to  
24     proceed concerning the conflicting proposals from COG and  
25     Cimarex.

1 Q. What is Chesapeake's interest or what would  
2 Chesapeake's interest be in the Leo well?

3 A. 28.125 percent.

4 Q. Did Chesapeake receive any other well  
5 proposals from Cimarex in Section 3?

6 A. Yes. We received two additional proposals,  
7 the Boxer 3 Number 1 and Number 2. The Number 1 is  
8 located in the west half of the west half of the section,  
9 and 2 is located in the east half of the west half.

10 Q. Do you know the status of those proposals now?

11 A. Those have been withdrawn internally.

12 Q. What does that mean?

13 A. Withdrawn means -- when we receive a proposal  
14 from an outside company, it is then routed internally,  
15 and the team reviews that proposal to see if it's a  
16 proposal that the team wants to recommend to upper  
17 management. The team consists of a land manager,  
18 geological manager, engineering manager, and their  
19 subordinates. And if they decide that proposal is  
20 something they want to recommend, it is then routed  
21 internally to upper management for approval to  
22 participate.

23 So when I say "withdrawn," it means that the  
24 team does not recommend to participate in those wells to  
25 upper management. Therefore, it's withdrawn from our

1 system.

2 Q. Are you aware of whether Chesapeake had any  
3 further communication from Cimarex on either the 1H or 2H  
4 wells?

5 A. I'm not aware of any communication.

6 Q. You explained for us sort of internally how  
7 Chesapeake processes a well proposal once you receive it.  
8 Once you -- or Mr. Brower, I guess, in this case --  
9 receive a proposal, what departments do you circulate a  
10 well proposal to?

11 A. Usually the proposal will come to the land  
12 department, and then the land department then would route  
13 it to geology and engineering for their review.

14 Q. And will Chesapeake be calling -- I believe  
15 you answered this -- be calling a geologist to discuss  
16 the geology in this area?

17 A. Yes.

18 Q. In summary, Mr. Zerkle, what does Chesapeake  
19 request the Examiner do in Cases 14507, 14508 and 14500?

20

21 A. Chesapeake requests that Cimarex's  
22 applications be denied and that COG's application be  
23 granted.

24 Q. In your opinion, would the granting of COG's  
25 application be in the best interest of conservation, the

1 prevention of waste and the protection of correlative  
2 rights?

3 A. Yes.

4 Q. Were Chesapeake's Exhibits 1 through 2 and 4  
5 either prepared by you or compiled under your direct  
6 supervision?

7 A. Yes.

8 MS. MUNDS-DRY: Mr. Examiner, we would  
9 move the admission of Exhibits 1, 2 and 4.

10 EXAMINER FESMIRE: Any objection?

11 MR. BRUCE: No, sir.

12 MR. HALL: No objection.

13 EXAMINER JONES: Exhibits 1, 2 and 4 are  
14 admitted to the record.

15 (Chesapeake Exhibits 1, 2 and 4 were admitted.)

16 MS. MUNDS-DRY: That concludes my direct  
17 examination of Mr. Zerkle. Pass the witness.

18 EXAMINER FESMIRE: Mr. Hall, can I assume  
19 that you won't have any questions of these witnesses?

20 MR. HALL: I have no questions.

21 EXAMINER FESMIRE: Mr. Bruce, I won't make  
22 the same assumption about you.

23 MR. BRUCE: I just had one question of  
24 Mr. Zerkle.

25 Is being appointed Chesapeake's sole landman for

1 New Mexico a form of punishment?

2 No need to answer.

3 EXAMINER FESMIRE: Mr. Bruce withdraws the  
4 question.

5 Mr. Examiner?

6 EXAMINATION

7 BY EXAMINER JONES:

8 Q. Was the decision to go with COG based solely  
9 on the acreage percentage would be higher in that well,  
10 or did you hear other --

11 A. Are you asking as far as what Chesapeake's  
12 interest would be depending on which orientation of the  
13 well?

14 Q. Yes.

15 A. The decision was based on geology, but the  
16 interest for the Boxer Wells would differ depending on,  
17 again, the proposed -- at the time, individual JOAs. If  
18 we worked out a JOA for the whole section, it would be.  
19 But there was no -- the interest did not play a part in  
20 our recommendation to the team of whether or not we would  
21 evaluate the proposals.

22 Q. I just wondered how internally you --

23 A. The geology definitely is the driver of  
24 whether or not we're going to drill or participate in a  
25 well. The interest just comes alongside.

1 Q. The AFE amount, what about that? Was that  
2 talked about also?

3 A. I do not know.

4 EXAMINER JONES: Okay. I don't have any  
5 more questions.

6 EXAMINATION

7 BY EXAMINER FESMIRE:

8 Q. Has Chesapeake proposed any wells out here on  
9 this play?

10 A. Yes.

11 Q. Where are those wells?

12 A. We proposed in Section 13, 15 South, 31 East,  
13 that's the Wrinkle well, and that has been drilled and  
14 completed.

15 Q. Make a good well?

16 A. Right now, no.

17 Q. That's the only well they proposed out here?

18 A. We have proposed another well, the Poseidon,  
19 which is in Section 22, 15 South, 31 East. Cimarex would  
20 be a 50 percent partner in that well.

21 Q. When you say we've proposed it, have you  
22 approached Cimarex with that?

23 A. Yeah.

24 Q. Because that location, it looks like it's  
25 marked on their map as a Cimarex location.

1           A.     Well, there's a letter agreement between  
2     Cimarex and Chesapeake on which wells will be operated,  
3     and I believe in Section 22 -- it's not on this plat  
4     here, but I believe it's the south half of the north  
5     half, we would operate that.

6                     EXAMINER FESMIRE:   So they would operate  
7     the one in the north half, which is where they were  
8     looking at.

9                     No further questions.

10                    Mr. Hall?

11                    MR. HALL:   No questions.

12                    EXAMINER FESMIRE:   Thank you very much,  
13     sir.

14                    MS. MUNDS-DRY:   I have just one follow-up  
15     on what you just asked.

16                    EXAMINER FESMIRE:   Okay.

17                    REDIRECT EXAMINATION

18     BY MS. MUNDS-DRY:

19            Q.     This is unfair, because I know you're new to  
20     the area so you're just learning.   But do you know if the  
21     Chesapeake well in Section 10, Perseus Fed Com, if that's  
22     been drilled?

23            A.     Yes, that has been drilled.   I believe it's  
24     being completed at this time.

25            Q.     It hasn't been completed yet?



1           A.       No.

2                   MS. MUNDS-DRY:   That's all.

3                   FURTHER EXAMINATION

4   BY EXAMINER FESMIRE:

5           Q.       Is that just one well, or are there two wells  
6   there?

7           A.       There's another proposed one.   When I say,  
8   "proposed," a planned well on our drill schedule.

9           Q.       Proposed internally?

10          A.       Correct.

11          Q.       They're both east/west wells?

12          A.       Correct.   Those are directly south of Section  
13   3.

14                   EXAMINER FESMIRE:   Mr. Bruce?

15                   MR. BRUCE:   No questions.

16                   EXAMINER FESMIRE:   Mr. Zerkle, thank you  
17   very much.

18                   MS. MUNDS-DRY:   I'd like to call Mr.  
19   Martin.

20                   EXAMINER FESMIRE:   Mr. Martin, you've been  
21   previously sworn in this case?

22                   MR. MARTIN:   Yes, sir, I have.

23                   ROBERT MARTIN

24                   Having been first duly sworn, testified as follows:

25

## DIRECT EXAMINATION

1

2 BY MS. MUNDS-DRY:

3 Q. Would you please state your full name for the  
4 record.

5 A. Yes. Robert Martin.

6 Q. Where do you reside?

7 A. Edmond, Oklahoma.

8 Q. By whom are you employed?

9 A. Chesapeake Energy Corporation.

10 Q. What is your position?

11 A. I'm a senior geologist with the Permian Group.

12 Q. Have you previously testified and your  
13 credentials made a matter of record and accepted before  
14 the Division?

15 A. Yes.

16 Q. Have you familiarized yourself with the  
17 applications that have been filed in what are known as  
18 Cases 14507, 14508, which are Cimarex applications, and  
19 14500, which is the COG application?

20 A. Yes.

21 Q. Have you made a study of the geology in this  
22 area of Section 3?

23 A. Yes, I have.

24 MS. MUNDS-DRY: We would tender Mr. Martin  
25 as an expert in petroleum geology.

1 EXAMINER FESMIRE: Is there any objection?

2 MR. BRUCE: No objection.

3 EXAMINER FESMIRE: Mr. Martin will be so  
4 accepted.

5 Q. (By Ms. Munds-Dry) Mr. Martin, were you the  
6 geologist responsible for reviewing Cimarex's well  
7 proposals for the Boxer Wells?

8 A. Yes.

9 Q. Did you review COG's well proposal for the Leo  
10 Well, as well?

11 A. Yes, I did.

12 Q. As a result of these well proposals that you  
13 received from Cimarex and COG, did you conduct your own  
14 study of the geology in this Section 3?

15 A. Yes.

16 Q. Would you please explain for the Examiner your  
17 interpretation of the geology in Section 3? And if it  
18 helps you to refer to Exhibit Number 3, if you could  
19 identify and review that.

20 A. Yes. I will be looking at Exhibit 3. Exhibit  
21 3 is an isopach of the Net Wolfcamp/Basal Abo. It's  
22 based on density porosity cutoff of zero percent or  
23 greater, and its contour interval at five feet.

24 What you see on the map in the brown dashed  
25 line, that's the acreage that affects Chesapeake that we

1 have a working interest in. We have the three wells that  
2 we would be involved in, the Cimarex Boxer -- the only  
3 one we'll talk about today is the Boxer 3 Fee in the west  
4 half of the east half.

5 The squares are surface hole locations. The  
6 circles are bottomhole location. The only wells that are  
7 showing on here are Wolfcamp wells that have been  
8 drilled, with the exception of the Cimarex Wrinkle Well  
9 that's been proposed for re-entry lateral. That is an  
10 actual vertical well that started this whole play.  
11 That's where the Wolfcamp was found vertically.

12 If there's not a well on here, it's because I  
13 don't know about it yet, or it hasn't been brought to the  
14 front as far as being produced yet. It displays a  
15 southwest to northeast porosity trend.

16 Q. Why did you use the zero percent cutoff?

17 A. Several years ago when Parallel and EOG, about  
18 six township and ranges west of here in Chaves and Eddy  
19 County, were drilling up the Wolfcamp horizontal gas  
20 play, we were partners in some of those wells, and that's  
21 what they used as their cutoff, was the density porosity.

22 We also tend to believe the density porosity  
23 is tied in a little bit with permeability, because we  
24 have an in-house petrophysical group that will go in and  
25 do what I consider black box calculations that I don't

1 understand. That's just a quick summary of what they do.  
2 That's the reason we use the density porosity as our  
3 cutoff.

4 Q. When you are looking and recommending whether  
5 or not to participate in a well or drill a well, what are  
6 you looking at in terms of your feet of pay that you'd  
7 like to make an economic well?

8 A. What I've seen in this area and the Crow Flats  
9 area, we like to see at least 10 feet. There's nothing  
10 super scientific about that. That's just what we've seen  
11 tends to work in those areas for the better wells.

12 Q. Do you disagree with Mr. Gawloski's geology  
13 interpretation in his cutoff that he used? I think they  
14 used 20 feet.

15 A. Mr. Gawloski used more of the neutron porosity  
16 in there. I guess that would tend to add a little bit  
17 more pay. So mine, I believe, is a little more  
18 conservative. That's -- no, I don't disagree with what  
19 he's done. You can get three geologists in a room and  
20 get four opinions.

21 Q. Is it fair to say that you used a different  
22 methodology, but your interpretations --

23 A. I would say they're fairly similar. We have  
24 the same type of trends.

25 Q. On the right side I see you have a type log.

1 Would you review that for the Examiners?

2 A. This is the Cimarex Energy Enterprise 11 State  
3 2, and I've marked that on Exhibit 3, as well, where that  
4 is at. All I wanted to show there is what it is that we  
5 highlight and what we isopach as our net feet, the  
6 Wolfcamp. That's what the pink highlights are. And then  
7 the target interval there shows what they targeted in  
8 that particular well. That target interval is pretty  
9 predominant throughout this particular area of the Cedar  
10 Point. The lower porosity zones tend to show up.

11 Q. I'm not sure if I asked this. Pardon me for  
12 backing up. What did you use as your main control well  
13 for your isopach?

14 A. My main control well?

15 Q. For your main well control. Did you use the  
16 Marshall & Winston Caprock well?

17 A. Oh, to the north, yes. That well certainly  
18 surprised me, and the dry and abandoned, not much shows,  
19 and everything told me that the further north we go, we  
20 do start to reach that porosity cutoff and that the  
21 porosity will start to go away within the dolomite.

22 Q. Based on the data you've given us here today  
23 and your study of the geology of Section 3, what is your  
24 geologic conclusion about the probability of drilling an  
25 economic north/south well trending in the west half of

1 the east half of Section 3?

2 A. I have very serious concerns that it would be  
3 economic.

4 Q. Looking at Cimarex's proposal for Boxer Fee  
5 Number 3, do you believe that each of the quarter/quarter  
6 sections in that west half/east half would be equally  
7 prospective?

8 A. No.

9 Q. What is your geologic conclusion about the  
10 probability of drilling an economic well in the south  
11 half/south half of Section 3?

12 A. Right now, I believe it's good.

13 Q. And similarly, do you believe that each of the  
14 quarter/quarter sections in the south half/south half of  
15 Section 3, the well proposed by COG, will be equally  
16 prospective?

17 A. Can you ask that again? I'm sorry.

18 Q. Do you believe that each of the  
19 quarter/quarter sections in the south half/south half  
20 will be equally prospective? Do you think they'll each  
21 contribute equally?

22 A. Yes, I do. I'm sorry. Yes. I was going to  
23 say the thickness does change. I thought you were asking  
24 about that. But, no, I think each one will contribute  
25 significant pay.

1 Q. Did you recommend to Chesapeake that it  
2 participate in the COG well and not in the Cimarex well?

3 A. Yes, I do recommend the COG well.

4 Q. Why did you make that recommendation?

5 A. Based on the geology and the way that  
6 Chesapeake has mapped this or the way I have mapped it, I  
7 believe it is more prospective and more economic.

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

12 A. Yes, I do.

13 Q. Was Exhibit 3 either prepared by you or under  
14 your direct supervision?

15 A. Yes.

16 MS. MUNDS-DRY: Mr. Examiner, we move the  
17 admission of Chesapeake's Exhibit 3 into evidence.

18 EXAMINER FESMIRE: Any objection?

19 MR. BRUCE: No.

20 EXAMINER FESMIRE: Exhibit Number 3 will  
21 be so admitted.

22 (Chesapeake Exhibit 3 was admitted.)

23 MS. MUNDS-DRY: That concludes my direct  
24 examination of Mr. Martin. Pass the witness.

25 EXAMINER FESMIRE: Mr. Bruce?



1 MR. BRUCE: Really, just one or two  
2 questions, Mr. Martin.

3 CROSS-EXAMINATION

4 BY MR. BRUCE:

5 Q. Looking down in Section 13, that well has been  
6 drilled and is producing?

7 A. The Wrinkle 13 Federal Com 1H?

8 Q. Yes.

9 A. Yes.

10 Q. Is that the well that Mr. Zerkle mentioned was  
11 not a very good well?

12 A. Right now it's not, no. We are still working  
13 on that one and are hopeful for a turnaround.

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

16 EXAMINATION

17 BY EXAMINER JONES:

18 Q. Mr. Martin, was this all laid down as  
19 limestone and it's dolomitized?

20 A. Correct.

21 Q. Can you explain to me why this is pinched out,  
22 then? If it does pinch-out before the Marshall well, how  
23 is it -- this porosity is developed in the dolomite; is  
24 that correct?

25 A. Yes.

1 Q. I notice it does go negative 10 on the  
2 density. I guess it's run on a lime matrix?

3 A. It is run on a limestone. Yes, that's  
4 correct.

5 Q. So you end up with a pretty clear top to  
6 your -- whatever you call it out here?

7 A. Yes, sir.

8 Q. Abo or Wolfcamp?

9 A. Pretty clear. Your density comes up pretty  
10 fast.

11 Q. This is an isopach again. What about a  
12 structure map?

13 A. I apologize about that. It's more of a  
14 northwest to southeast dip. It doesn't quite mimic what  
15 is going on with the isopach, but it is similar.

16 Q. And this dolomitization, was it caused by  
17 waters moving through?

18 A. That's what we believe, this was probably some  
19 kind of inter- to mid-shelf and the waters come in and  
20 dolomitize and preserve the porosity.

21 Q. Preserved it?

22 A. Yes. The porosity was created and preserved.

23 Q. Well, what I'm getting at is does that process  
24 cause any kind of lineations or fracturing in --

25 A. Not that I have seen. And the fracturing I

1 have not seen either, so I can't answer that.

2 Q. So these logs, you can't run -- can you run  
3 them on these horizontal sections?

4 A. Yes, sir.

5 Q. But you don't normally?

6 A. No. It's very expensive.

7 Q. You just normally have the gamma ray and a mud  
8 log through the --

9 A. Through the lateral.

10 Q. So the information that you gained, you pretty  
11 much have to drill -- you gained some information by  
12 drilling a horizontal, obviously. But you don't,  
13 obviously, have the nice logged section to see. So  
14 you're drilling along, and you may be in a real thin  
15 zone, but you don't -- there's no way to tell, is there?

16 A. No.

17 Q. So still, you're based on the control of the  
18 vertical logged wells?

19 A. That's correct.

20 Q. You can't see this on seismic; is that  
21 correct?

22 A. I don't know, and I've never seen seismic out  
23 here. I don't know if they can or not.

24 EXAMINER JONES: I don't have any more  
25 questions.

1 EXAMINER FESMIRE: Just real quick.

2 EXAMINATION

3 BY EXAMINER FESMIRE:

4 Q. You don't have the BL 3 Fed Number 2 spotted  
5 on here. Why is that?

6 A. Which one?

7 Q. The northernmost of the COG wells in Section  
8 3, in the northern half of the southern half of the  
9 section.

10 A. Oh, I'm not sure -- that's the only one that  
11 I've personally seen that's been circulated to me. If  
12 you're asking me if I've seen the COG Leo 3 Fed Com  
13 Number 2H, I have not.

14 EXAMINER FESMIRE: Okay. No further  
15 questions. Anything else?

16 MS. MUNDS-DRY: No, sir. That concludes  
17 our case.

18 EXAMINER FESMIRE: Mr. Martin, thank you  
19 very much.

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

21 MS. MUNDS-DRY: I do not.

22 EXAMINER FESMIRE: Mr. Bruce, I don't  
23 remember whether you reserved an opening statement.

24 MR. BRUCE: I think I'd rather reserve my  
25 comments for the end.

1 EXAMINER FESMIRE: Okay. I believe you've  
2 got your first witness available?

3 MR. BRUCE: Yes, sir.

4 HAYDEN TRESNER

5 Having been first duly sworn, testified as follows:

6 DIRECT EXAMINATION

7 BY MR. BRUCE:

8 Q. Please state your name for the record.

9 A. Hayden Tresner.

10 Q. Where do you reside?

11 A. Midland, Texas.

12 Q. Who do you work for and in what capacity?

13 A. Cimarex Energy Company as a landman.

14 Q. Have you previously testified before the  
15 Division?

16 A. Yes.

17 Q. Were your credentials as an expert petroleum  
18 landman accepted as a matter of record?

19 A. Yes, they were.

20 Q. And is this township -- are you, within  
21 Cimarex, responsible for the land matters regarding this  
22 township?

23 A. Yes, I am.

24 MR. BRUCE: Mr. Examiner, I tender

25 Mr. Tresner as an expert petroleum landman.

1 EXAMINER FESMIRE: You've been previously  
2 sworn in this case; is that correct?

3 THE WITNESS: Yes.

4 EXAMINER FESMIRE: Any objection?

5 MR. HALL: No objection.

6 MS. MUNDS-DRY: No objection.

7 EXAMINER FESMIRE: Are you a CPL?

8 THE WITNESS: A Registered Professional  
9 Landman.

10 EXAMINER FESMIRE: Okay. He will be so  
11 admitted.

12 Q. (By Mr. Bruce) Mr. Tresner, I've handed you  
13 what's been marked Cimarex Exhibit 1, which actually  
14 encompasses all of Cimarex -- well, except for a couple  
15 of notice exhibits and geology exhibits, so we're not  
16 going to -- we'll try to keep this simple.

17 If you'll turn after the first tab, what does  
18 that reflect?

19 A. That's the shot of the acreage, the position  
20 in the Caprock area. The yellow is Cimarex. The green  
21 is Chesapeake and/or Chesapeake COG. The orange is other  
22 operators. The maroon lay-down laterals are wells that  
23 Cimarex has drilled to date, both non-operated and wells  
24 that we drill and operate.

25 We drill and operate over 20 wells. I think

1 we've participated in four. And the green lay-down  
2 lateral lines are permitted locations.

3 Q. If you go passed the second tab, what is that?

4 A. That's the surface use agreement that we have  
5 with the land owner, Bill Medlin. He actually owns fee  
6 surface to all of Section 3, which is covered under the  
7 agreement itself.

8 Behind that is a plat of all of the tracts  
9 that Bill Medlin has that are covered by the surface use  
10 agreement.

11 Q. The cross-hatched acreage?

12 A. That's correct.

13 Q. This agreement is now almost a couple of years  
14 old; is that correct?

15 A. Yes.

16 Q. Okay. And there's just one agreement covering  
17 all of that cross-hatched acreage?

18 A. That's correct.

19 Q. Let's move on to the next tab. What is that  
20 first page?

21 A. That is the C-102 that we filed for the Boxer  
22 Fee Number 3 well in the west half of the east half of  
23 Section 3, 15, 31.

24 Q. And Cimarex seeks to drill that well to test  
25 the Abo/Wolfcamp Formation?

1 A. That's correct.

2 Q. The surface location will be -- now, take a  
3 step back. The northern quarter/quarter sections are  
4 actually lots, are they not?

5 A. That's correct.

6 Q. So this is a slightly irregular section. So  
7 although it's lot two in the other acreage, the project  
8 area for this well will be the west half/east half of  
9 Section 3?

10 A. That's correct, drilling from north to south.

11 Q. Then if you go back about five more pages to  
12 another C-102, what does this reflect?

13 A. That's the C-102 that we filed for the  
14 drilling of the Boxer Fee Number 4 well.

15 Q. And the well unit for that will be the east  
16 half/east half of Section 3; correct?

17 A. That's correct.

18 Q. And, again, is that being proposed to be  
19 drilled from the north to the south?

20 A. Yes.

21 EXAMINER FESMIRE: May I ask a quick  
22 question, Mr. Bruce?

23 MR. BRUCE: Yes, sir.

24 EXAMINER FESMIRE: Just out of curiosity,  
25 because it's been bugging me, why did you choose to put a



1 northwest offset on that between the surface location and  
2 the bottomhole location? All the others are pretty much  
3 parallel lines. Why does this one have an angle to it?

4 THE WITNESS: I think my geologist would  
5 probably be better to speak on that.

6 MR. BRUCE: Are you talking about the  
7 unorthodox location?

8 EXAMINER FESMIRE: Yes. Why is the  
9 bottomhole location 600 or so feet farther east from the  
10 surface location?

11 MR. BRUCE: I was going to follow that up.

12 Q. (By Mr. Bruce) Mr. Hayden, the surface  
13 location is unorthodox, and Cimarex will be applying  
14 administratively for that unorthodox location; correct?

15 A. Correct.

16 Q. Aren't there some surface issues out there  
17 that required -- originally, it was proposed at an  
18 orthodox location; is that correct?

19 A. That's true. Yes. To my knowledge, there's  
20 something in that northeast/northeast quarter that  
21 prevented us from having the standard setback location.

22 EXAMINER FESMIRE: Okay. That answers my  
23 question.

24 Q. (By Mr. Bruce) And then the other pages are  
25 simply matters that are usually attached to -- the

1     additional with the C-102s are just additional plats  
2     that Cimarex usually submits with an APD to the Division?

3             A.     Yes.

4             Q.     Okay. Now, let's discuss your efforts to  
5     obtain the voluntary joinder of the parties. When did  
6     Cimarex first get an ownership report of acreage in  
7     Section 3?

8             A.     I believe it was toward the end of 2007. I  
9     think in October.

10            Q.     So you've been looking at -- just like --  
11     Cimarex, along with COG and Chesapeake, have been in this  
12     township, looking around for similar periods of time?

13            A.     That's correct.

14            Q.     "Looking around" is probably a very inartful  
15     way of putting it. But they have been looking at  
16     drilling wells out here for several years?

17            A.     Yes.

18            Q.     Under the next tab, there's a bunch of  
19     correspondence. I don't think you have to go through it  
20     line by line. But what does this reflect?

21            A.     These are the well proposals that I made for  
22     the Boxer 3 Fee Number 3 Well, COG's well proposal. Each  
23     well proposal contains a letter that briefly describes  
24     how we intend to drill the well, the footages and so  
25     forth. It's accompanied by an authorization for

1 expenditure.

2 And in this tab you have COG well proposal,  
3 the Chesapeake well proposal, and then the proposals that  
4 went out to the rest of the parties, namely Chisos, Pure,  
5 La Blanco Company and First Roswell Company.

6 Q. Okay. Now, along with -- well, actually, in  
7 this well unit, I believe, the Number 3 well, COG  
8 actually does not own an interest; is that correct?

9 A. They do not. That's my understanding.

10 Q. Behind the next tab, is this the  
11 correspondence regarding the Boxer 3 Number 4?

12 A. That's correct, same paperwork.

13 Q. Same paperwork?

14 A. The well proposals, the AFEs, and the  
15 description of how we plan to drill the well.

16 Q. Did you have phone calls with each of these  
17 parties, too?

18 A. I talked to everyone involved on multiple  
19 occasions.

20 Q. Then in your letters here, in June, you did  
21 submit operating agreements to the various parties?

22 A. Yes. And those operating agreements were  
23 signed by Cimarex and ready for their signatures, as  
24 well.

25 Q. Now, Cimarex has participated in wells with

1 Chesapeake and COG, has it not, in this township?

2 A. Yes.

3 Q. So each of you are pretty familiar with each  
4 other's preferred JOA forms?

5 A. I think so, yeah.

6 Q. In your opinion, has Cimarex made a good-faith  
7 effort to obtain the voluntary joinder of the parties in  
8 these well units?

9 A. Yes.

10 Q. Turn to the next tab, where you set forth the  
11 working interest ownership in the two proposed well  
12 units. Would you discuss that, please?

13 A. That's the breakdown of the ownership in the  
14 Boxer 3 Fee Number 3 well in the west half of the east  
15 half, 161.06-acre spacing unit. The west half of the  
16 northeast quarter is owned 100 percent by Cimarex. The  
17 west half of the southeast quarter, you have Cimarex,  
18 Chesapeake, Chisos, Pure and First Roswell Company.  
19 Those interests in the well come out to Cimarex with  
20 about 70 percent Pure, Chesapeake, First Roswell and  
21 Chisos.

22 Out of those five owners, two have signed our  
23 operating agreement, and that's under the other column,  
24 the total committed interests, where Cimarex has 70  
25 percent, First Roswell will be in for 6 and Chisos for 4.

1 Q. So in this well unit, at this point, over 81  
2 percent of the working interest owners have committed to  
3 Cimarex's well?

4 A. Yes.

5 Q. What about the next page regarding the Boxer 3  
6 Well Number 4?

7 A. Same thing. It's just a breakdown of the  
8 ownership by tract. The first tract being the east half  
9 of the northeast, where you have Cimarex and First  
10 Roswell. Tract 2, east half of the southeast, where you  
11 have Cimarex, COG, Penroc and then a portion of interest  
12 that I really am not at a point to -- I'm trying to  
13 figure out who owns it.

14 Q. I think if you look at -- COG submitted an  
15 interest ownership breakdown chart. Most of this is at  
16 New Mexico Boys and Girls Ranch; correct?

17 A. Yes.

18 Q. And will Cimarex, similarly to COG -- you're  
19 having title rechecked again, are you not?

20 A. I'm actually having a stand-up drilling title  
21 opinion done.

22 Q. So there will be maybe one or two additional  
23 interests who may need to be notified?

24 A. Yes.

25 Q. One other thing. Let me give you COG's

1 Exhibit 2. There's an interest that COG credits to OXY.

2 What is your opinion regarding that interest?

3 A. It's my opinion that that is actually owned by  
4 Cimarex. There's a recorded document in the county  
5 records that will reflect that.

6 Q. So at this point, you dispute COG's statement  
7 that that is now an OXY or OXY/COG interest and that that  
8 is controlled by Cimarex?

9 A. It's my opinion that Cimarex owns that  
10 interest, the 31 percent.

11 Q. Okay. And in looking at the total committed  
12 interests, Cimarex in the east half/east half, controls  
13 about 75 percent of the working interest?

14 A. Yes.

15 Q. And Penroc, again, has signed your -- First  
16 Roswell has signed the JOA for that Number 4 well;  
17 correct?

18 A. And so has Penroc.

19 Q. Okay. Turning to the next tab, there is  
20 series of letters. What do they reflect?

21 A. These are just letters from the partners that  
22 want to participate in the proposals that Cimarex has  
23 made, letters of support, the first one being from  
24 Penroc. They support Cimarex as the operator and agree  
25 that the best way to drill this well would be from north

1 to south, like Cimarex has proposed.

2 The second letter is from Sue Ann Craddock of  
3 Chisos, who is also a working interest owner in Boxer 3  
4 Fee Number 3 Well. The third letter is from Thomas E.  
5 Jennings of First Roswell Company, showing his support in  
6 the operations that Cimarex is proposing.

7 Q. Now, Cimarex -- just a couple of questions on  
8 the basic land issues. I mean, Cimarex would have  
9 preferred to have had everything tied up before it went  
10 to hearing; is that correct?

11 A. That would be correct.

12 Q. But COG filed its pooling application before  
13 you did?

14 A. Yes.

15 Q. As a result, Cimarex felt compelled to file  
16 its counter applications?

17 A. Yes.

18 Q. One other thing, just looking at Section 3 in  
19 general, when it comes to ownership, as to the northwest  
20 quarter of Section 3, who is the working interest owner  
21 there in the Abo/Wolfcamp?

22 A. We're actually getting a stand-up title  
23 opinion done on that northeast quarter, as well. I've  
24 gotten a verbal.

25 Q. I'm asking about the northwest quarter.

1           A.     The northwest? Okay. Same there. It's  
2     currently being examined, and it's my opinion that we own  
3     100 percent of the northwest and most of the northeast  
4     quarter.

5           Q.     On one of the exhibits, it was shown to be  
6     Kevin O. Butler & Associates, Inc., who does operate  
7     certain wells in a unit out there. But does Cimarex have  
8     an agreement with Butler?

9           A.     We have a term assignment from Kevin O. Butler  
10    & Associates that covers his rights below the base of the  
11    south Caprock Queen Unit below the depths of 5,500 feet.

12          Q.     Now, going back to some of the proposal  
13    letters, you had Cimarex's AFE attached to those proposal  
14    letters. What cost does Cimarex project on those wells?

15          A.     I believe it's 3.8 -- \$3,776,971.

16          Q.     Is that a reasonable cost and is that cost in  
17    line with the cost of other wells drilled to this depth  
18    in this area of Chaves County?

19          A.     As far as I'm concerned, yes.

20          Q.     How many wells has Cimarex drilled in this  
21    township?

22          A.     Approximately 20 wells that we've drilled and  
23    continue to operate.

24                   EXAMINER FESMIRE: Sorry. Can you restate  
25    those rates again?



1 MR. BRUCE: That was my next question.

2 Q. (By Mr. Bruce) What overhead rates does  
3 Cimarex propose?

4 A. I believe drilling, 7,000, and producing, 700.

5 Q. Are those rates comparable to those used by  
6 other operators in this township?

7 A. Yes.

8 Q. If a working interest owner elects to go  
9 non-consent in these wells, do you request a 200 percent  
10 risk charge be assessed against them?

11 A. Yes.

12 Q. And do you propose that Cimarex Energy Company  
13 of Colorado be appointed the operator of these wells?

14 A. Yes.

15 Q. That's the operating arm of Cimarex?

16 A. Yes.

17 Q. In your opinion, is the granting of Cimarex's  
18 applications and the denial of COG application in the  
19 interest of conservation and the prevention of waste?

20 A. Yes.

21 Q. Were the land exhibits you discussed under  
22 Tabs 1 through 6 of Exhibit 1 prepared by you or under  
23 your supervision or compiled from company business  
24 records?

25 A. Yes.

1 MR. BRUCE: May I approach the witness?

2 EXAMINER FESMIRE: You may, sir.

3 MR. BRUCE: Mr. Hayden, I've handed you a  
4 couple of additional exhibits.

5 EXAMINER FESMIRE: Before we go any  
6 farther, you were talking about Tabs 1 through 6.

7 MR. BRUCE: Yeah. Unfortunately, I'm  
8 counting them, rather than having them labeled. But if  
9 you'd go through the first seven tabs, I apologize.

10 EXAMINER FESMIRE: Through the working  
11 interest calculations in the Boxer 3 Fee?

12 MR. BRUCE: Through the letters from  
13 Penroc, et al.

14 EXAMINER FESMIRE: That would be, from my  
15 count, eight. No. You're right. I'm sorry. I  
16 apologize.

17 MR. BRUCE: The first seven.

18 Q. (By Mr. Bruce) Mr. Tresner, Exhibit 2, what  
19 does Exhibit 2 reflect?

20 A. That is -- those are the company's that we  
21 notified and their offset operators or working interest  
22 owners adjacent sections or tracts.

23 Q. And in the past, the Division has required  
24 interest -- operators force pooling a non-standard unit  
25 to notify the offset operators or working interest owners

1 in that formation; is that correct?

2 A. Yes.

3 Q. Was notice given to all of those offset  
4 operators?

5 A. Yes.

6 Q. Is that reflected in my affidavit of notice  
7 submitted as Exhibit 3?

8 A. I've got 1 and 4. I don't have Exhibit 3.

9 EXAMINER FESMIRE: I've got 2 and 3.

10 A. Yes, to answer your question.

11 MR. BRUCE: And Mr. Examiner, Exhibit 4 is  
12 my affidavit of notice to the interest owners being  
13 pooled. You will note that I did not -- Pure Energy, I  
14 do not show a green card for them. That was returned,  
15 and that's why I have to -- I have re-notified, but as a  
16 result, that's another reason we need to continue this  
17 matter. I think I gave notice to -- their address  
18 changed within the past month or so, and I did get notice  
19 for the August 5th hearing, I believe.

20 As I said, I move the admission of the first  
21 seven tabs of Exhibit 1 and Exhibits 2, 3 and 4.

22 MS. MUNDS-DRY: No objection.

23 MR. HALL: I object to the one unsigned  
24 letter from Mr. Merchant. Otherwise, no objection.

25 MR. BRUCE: That objection is fine. We

1 will submit another one.

2 EXAMINER FESMIRE: So we will admit  
3 exhibits -- we will admit those exhibits in Exhibit 1  
4 that are -- should have been numbered 1 through 6 --

5 MR. BRUCE: 1 through 7.

6 EXAMINER FESMIRE: -- 1 through 6, and we  
7 will conditionally admit Number 7 pending presentation of  
8 a signed copy.

9 MR. BRUCE: And Exhibits 2 through 4?

10 EXAMINER FESMIRE: And Exhibits 2 through  
11 4.

12 MR. HALL: No objection.  
13 (Cimarex Tabs 1 through 6 of Exhibit 1, Exhibits 2, 3,  
14 and 4 were admitted.)

15 MR. BRUCE: I pass the witness.

16 EXAMINER FESMIRE: Mr. Hall?

17 CROSS-EXAMINATION

18 BY MR. HALL:

19 Q. Mr. Tresner, I want to ask you about your  
20 surface use agreement with Medlin. Can you tell us how  
21 far along Cimarex is in negotiating surface damages with  
22 Mr. Medlin for your proposed locations?

23 A. For these proposed locations, all we've done  
24 is put four stakes in the ground. We're not quite there  
25 yet on settling any kind of damages.

1 Q. Has a site visit occurred?

2 A. No. Site visits have occurred, but not for  
3 these four wells.

4 Q. A site visit has not occurred with Mr. Medlin?

5 A. Not for these four wells, no.

6 Q. When were you first aware that the Marshall &  
7 Winston well in Section 35 was abandoned?

8 A. Gosh, I couldn't tell you. Probably shortly  
9 after they drilled through the lateral and didn't  
10 encounter what they wanted to find.

11 Q. Is it accurate to say that Cimarex's well  
12 proposals were precipitated by the Marshall & Winston  
13 dryhole?

14 A. Not at all.

15 Q. Had no bearing on Cimarex's decision to orient  
16 these wells?

17 A. No.

18 Q. I understood your testimony that your well  
19 proposals, based on your exhibits, went out on April 8th;  
20 is that correct?

21 A. The well proposals to COG and Chesapeake went  
22 out on April 8th.

23 Q. And your well proposal did not include a JOA;  
24 is that correct?

25 A. Did not.

1 Q. When did your JOA go out to the parties?

2 A. The operating agreements were mailed to all of  
3 the working interest owners except COG and Chesapeake.

4 Q. And why the delay?

5 A. We're both pretty familiar with each firm's  
6 operating agreement, and they know what to expect.

7 Q. Do you provide COG with the exact same form of  
8 operating agreement for every well proposal?

9 A. For these four wells ,yes.

10 Q. Only in these four wells?

11 A. And in other wells.

12 Q. Have you provided them with proposed operating  
13 agreements that differ from what were proposed for these  
14 wells?

15 A. Over the course of the past almost three  
16 years, I'm assuming I probably have.

17 Q. When did you request your drilling order title  
18 opinion to be commenced?

19 A. Between two to three weeks ago.

20 Q. And before that --

21 A. Possibly a little bit longer.

22 Q. And before that time, what were you working  
23 with to determine ownership in Section 3?

24 A. Some field ownership reports that had been  
25 provided by field contract -- field landmen.

1 Q. I believe you indicated that it was your  
2 understanding, based upon, I believe you said documents  
3 of record, that Cimarex was the owner of the interests  
4 acquired from Bold; is that right?

5 A. That is my opinion. The east half of the  
6 southeast quarter of Section 3 was included under our  
7 assignment from Bold.

8 Q. And have you personally read the instrument of  
9 record you were referring to that established that?

10 A. I have, but not within the past month or so.

11 Q. Do you know if it describes Section 3?

12 A. I'm confident that it does.

13 Q. Let's look at what we've marked as COG Exhibit  
14 18. Is this the instrument you were referring to?

15 A. These are the two assignments that we acquired  
16 from Bold Energy.

17 Q. And is this a partial assignment of oil and  
18 gas and mineral lease that's filed of record in Book 605,  
19 page 851?

20 A. This appears to be the one.

21 Q. And if you look at Exhibit A to that  
22 assignment, does it describe Section 3?

23 A. No. And I probably should have mentioned  
24 this, that we went back and got an amendment signed of  
25 these two assignments. Both Bold and OXY signed that

1 amendment, and I think the amendment covers this Section  
2 3 property.

3 Q. Is it a corrective assignment?

4 A. Basically, yes.

5 Q. And is it filed of record?

6 A. The one that I'm thinking of, yes, it is.

7 Q. Would you know book and page number?

8 A. No.

9 Q. Date?

10 A. No.

11 Q. Would you agree, based on your familiarity  
12 with oil and gas land transactions in Chavez, Eddy, Lea  
13 County, that any of the Bold interests that were not  
14 assigned to Cimarex, were acquired by OXY?

15 A. And that's why they signed the amendment.

16 Q. Mr. Tresner, is there any land issue that  
17 prevents Cimarex from establishing lay-down units in the  
18 north half of Section 3?

19 A. Land issues that would prevent us from  
20 drilling lay-down laterals versus stand-up?

21 Q. Yes.

22 A. Not that I'm aware of.

23 MR. HALL: Nothing further, Mr. Examiner.

24 EXAMINER FESMIRE: Ms. Munds-Dry?

25 MS. MUNDS-DRY: I think I have a few



1 questions. I'm going to see if I can figure out this tab  
2 system that Mr. Bruce put together for us.

3 THE WITNESS: That was actually my doing.

4 MS. MUNDS-DRY: That you carefully put  
5 together for us. I believe it's Tab 2. I'm looking for  
6 the C-102s.

7 THE WITNESS: The third one, I believe.

8 MS. MUNDS-DRY: Thank you.

9 CROSS-EXAMINATION

10 BY MS. MUNDS-DRY:

11 Q. I just want to make sure I understand your  
12 testimony. You said that these C-102s were filed?

13 A. These are the C-102s that our regulatory  
14 department has generated --

15 Q. So they haven't been --

16 A. -- that will be filed, if they haven't  
17 already.

18 Q. I see. I wanted to make sure I understood  
19 that. Thank you.

20 Now, where is the letter with the operating  
21 agreement? I think it's in the next tab.

22 A. Yeah, toward the back, the letters that I sent  
23 out.

24 Q. I see. Those letters are dated June 24th; is  
25 that correct?

1 A. That's correct.

2 Q. Do you recall a conversation you had with  
3 Mr. Brower at Chesapeake?

4 A. I've had multiple conversations with  
5 Mr. Brower.

6 Q. Do you recall a conversation you had on June  
7 18th with Mr. Brower?

8 A. Not necessarily.

9 Q. Okay. If you could go to the tab that is two  
10 back, that gives the interest breakdown.

11 A. Yes.

12 Q. As I understand this document, it shows -- it  
13 breaks down for each of the 80 acres in your proposed  
14 non-standard spacing unit and project area; is that  
15 correct?

16 A. Yes.

17 Q. Does Cimarex have an interest in each of the  
18 40 acres in the project area?

19 A. Yes.

20 Q. Mr. Tresner, I don't know if you know this,  
21 but I believe that Mr. Bruce asked you if Cimarex Energy  
22 of Colorado should be named the operator?

23 A. Um-hum.

24 Q. Do you know why it is that the application was  
25 brought by Cimarex Energy Company?

1           A.     The application? No, I don't.

2                     MS. MUNDS-DRY: Okay. That's all the  
3 questions I have. Thank you.

4                     EXAMINER FESMIRE: Mr. Examiner?

5                             EXAMINATION

6 BY EXAMINER JONES:

7           Q.     So there was no notice sent to OXY; is that  
8 correct?

9           A.     No. No, sir.

10          Q.     Because in your title search, you found that  
11 OXY's -- the land that was presumed to be OXY's was  
12 actually --

13          A.     By Cimarex. Yes.

14          Q.     -- owned by Cimarex? So there is no notice  
15 to OXY yet. So it seems like there's a bit of a title  
16 dispute in this matter in this whole area. But you're  
17 pretty convinced that you guys don't all use the same guy  
18 in the courthouse, I would guess, different person,  
19 but --

20          A.     Yeah.

21          Q.     This Kevin Butler, you did provide him notice  
22 as part of the offset to the NSP, but you said their  
23 acreage is actually controlled now by Cimarex?

24          A.     Yes. Cimarex controls Kevin Butler's Wolfcamp  
25 and Abo rights under this property, these tracts, Section

1 3.

2 Q. What would be the -- if you take the south  
3 half of Section 3, south half equivalent of Section 3,  
4 what would Cimarex's interest be?

5 A. In the west half of the southeast quarter,  
6 Cimarex owns 40 percent in that tract. And in the east  
7 half of the southeast quarter, Cimarex owns approximately  
8 34 percent. So 34 percent times a quarter, and 40  
9 percent times a quarter, would give you --

10 Q. Nothing in the southwest?

11 A. No. That's actually owned by Chesapeake and  
12 COG, fifty-fifty.

13 EXAMINER JONES: Okay. I have no more  
14 questions.

15 EXAMINER FESMIRE: Anything further, Mr.  
16 Bruce?

17 MR. BRUCE: One question. I wanted to  
18 clarify what Ms. Munds-Dry asked you.

19 REDIRECT EXAMINATION

20 BY MR. BRUCE:

21 Q. Cimarex Energy Company owns the actual working  
22 interest?

23 A. Yes.

24 Q. And Cimarex Energy Company of Colorado is the  
25 operating entity?

1           A.     Yeah.

2           Q.     So the applications were filed in the name of  
3     the working interest owner?

4           A.     Yes.

5                     MR. BRUCE:   That's all.

6                     EXAMINER FESMIRE:   Mr. Hall?

7                     MR. HALL:   Nothing.

8                     EXAMINER FESMIRE:   Thank you very much,  
9     Mr. Tresner.

10                    THE COURT REPORTER:   Can we take a break?

11                    EXAMINER FESMIRE:   We've worn the court  
12     reporter out, so let's take a ten-minute break.

13                             (A recess was taken.)

14                    EXAMINER FESMIRE:   Let's go back on the  
15     record.   The record should reflect that we've reconvened  
16     in Cases 14500, 14507 and 14508.

17                    I believe, Mr. Bruce, that you were about to  
18     call your next witness.

19                    MR. BRUCE:   Yes, our geologist.

20                    EXAMINER FESMIRE:   His name is?

21                    MR. BRUCE:   Ralph Worthington.

22                    EXAMINER FESMIRE:   Mr. Worthington, you've  
23     been previously sworn in this case?

24                    MR. WORTHINGTON:   Yes.

25                    MR. BRUCE:   Lately, I've taken to

1 numbering those tabs, so we'll start with Tab 8.

2 RALPH WORTHINGTON

3 Having been first duly sworn, testified as follows:

4 DIRECT EXAMINATION

5 BY MR. BRUCE:

6 Q. Please state your full name for the record?

7 A. Ralph Worthington.

8 Q. Where do you reside?

9 A. Midland, Texas.

10 Q. Who do you work for and in what capacity?

11 A. Cimarex Energy Company and I'm a regional  
12 geologic manager.

13 Q. Have you previously testified before the  
14 Division?

15 A. Yes, I have.

16 Q. Were your credentials as an expert petroleum  
17 geologist accepted as a matter of record?

18 A. Yes, they were.

19 Q. Does your area of responsibility at Cimarex  
20 include this portion of Chaves County?

21 A. Yes, it does.

22 MR. BRUCE: Mr. Examiner, I tender Mr.  
23 Worthington as an expert petroleum engineer -- petroleum  
24 geologist.

25 EXAMINER FESMIRE: Mr. Hall, do you have

1 any objection?

2 MR. HALL: No objection.

3 MS. MUNDS-DRY: No objection.

4 EXAMINER FESMIRE: He'll be so accepted.

5 Q. (By Mr. Bruce) If you could look at your  
6 first plat, and could you describe that for the  
7 Examiners?

8 A. This is a nine-section plat showing the area  
9 of interest, Section 3, centered in the plat. I have an  
10 isopach and a structure map depicted on this map.

11 The structure map is indicated by the gray  
12 lines with the higher side to the northwest corner and  
13 lower area to the southeast corner. The black line  
14 represents the isopach of the porosity within the lower  
15 Abo dolomite interval. That is our target interval.

16 Also on the map, I've got spotted various  
17 wells and locations and permits and stuff like that.  
18 I've also got a line indicating the line of  
19 cross-section, which is going to be my next exhibit. And  
20 the yellow acreage color here represents Cimarex's  
21 leasehold.

22 Q. Before I ask you some questions on this, why  
23 don't we go to the next tab and discuss your  
24 cross-section?

25 A. This is a cross-section that goes from north

1 to south indicated by the red line on the nine-section  
2 plat. It shows logs from the three wells that connected  
3 the one to the north, the Gulf Oil Company Caprock Unit.  
4 As indicated on previous maps, this is a 1958 sonic log  
5 and inductional electric log.

6 And for this interval, we only have a one-inch  
7 scale, so it is a -- what I would qualify as a poor log,  
8 barely able to correlate with, let alone try to do any  
9 kind of analysis with as far as identifying porosity.  
10 The second -- and on that I have the sonic log on the  
11 left column and the induction electric log on the right.

12 The next one is the Marshall & Winston Caprock  
13 State Well that was previously discussed as the only dry  
14 hole within this trend. You'll notice on the left side  
15 of my wellbore, there is not a porosity log. There was  
16 not a porosity log ran in this well.

17 According to the comments on the well header  
18 for the resistivity log, there were old problems, and the  
19 operator requested that the operating company or the  
20 Schlumberger or whoever logged it, not to run that log.  
21 And then to the right of that is a mud log of that  
22 vertical pilot hole.

23 The third well in the cross-section is the  
24 Cimarex Energy Company Wasp 2 State Number 1, which is  
25 the southern-most well on this cross-section. And,



1 again, I have a porosity log in the left-hand column.  
2 Right of the wellbore column, I have the resistivity log,  
3 and to the right of that is the mud log to that interval.

4 I have the various tops marked across the  
5 cross-section. And I've also identified the porosity in  
6 the Wasp well by the color green through there and  
7 identified that as the horizontal target.

8 Q. Is that a recently drilled well?

9 A. Yes.

10 Q. That's part of the log that Mr. Gawloski wants  
11 to get his hands on; is that correct?

12 A. That's what he said, yes.

13 Q. Let's go back to your first exhibit. You  
14 drill a zero line further to the north than your two  
15 fellow geologists do?

16 A. That's correct.

17 Q. Why do you do that?

18 A. Because I don't really have a data point that  
19 tells me I've got zero porosity. I've got vague  
20 indicators that the zone is getting tighter as we go to  
21 the north, and then I'm assuming that that Gulf well  
22 there in Section 34 is a zero porosity within that  
23 interval.

24 But the Caprock Well that we talked about  
25 before, my argument would be that we don't have a

1     porosity log so, therefore, I can't put a value on that  
2     porosity map. We do have indicators from mud logs and  
3     from the resistivity log, but the interval in question,  
4     has some thickness to it. We just don't know what the  
5     porosity is or anything like that. The mud log does  
6     indicate a show within that interval.

7           Q.     In your opinion, there is some reservoir in  
8     the Marshall & Winston well?

9           A.     Potentially, yes.

10          Q.     Now, from a geologic standpoint, why would you  
11     prefer to drill these wells as stand-up wells?

12          A.     From a standpoint of identifying where our  
13     boundary is, we still have that as a big unknown, so we  
14     need a good data point to try to prove that's the rest of  
15     our leasehold. We need data points at the north part of  
16     that section.

17                 Secondly, from a geosteering standpoint,  
18     drilling from an unknown back to a known is much more  
19     comforting to our geosteering specialists, because they  
20     have a target that they can aim for. With our Wasp well  
21     pilot hole in the southwest/southwest of Section 2, we  
22     have a very thick porous interval that we can direct our  
23     wellbore towards.

24          Q.     So the geosteering could start where it's an  
25     unknown but definitely go to a known, a well-known data

1 point?

2 A. But it would be a known when we drill a pilot  
3 hole. So it's an unknown today. We drill a pilot hole,  
4 then we would have that second piece of the puzzle.

5 Q. And you're not willing to condemn acreage in  
6 the north half of Section 3?

7 A. Absolutely not.

8 Q. On the other hand, it's not your job -- it's  
9 certainly not your job to recommend drilling dryholes to  
10 your management?

11 A. No, sir, it's not.

12 Q. I'm going to hand you --

13 EXAMINER FESMIRE: Would you like to  
14 approach the witness?

15 MR. BRUCE: If I may.

16 EXAMINER FESMIRE: You may, sir.

17 Q. (By Mr. Bruce) I've handed you Mr. Gawloski's  
18 Exhibit 10. In looking at that, what Cimarex proposes to  
19 do with the Boxer Numbers 3 and 4 doesn't appear to be  
20 much different than what Cimarex has done with its  
21 Franklin 18 Fee Number 4 well over in Section 18;  
22 correct?

23 A. That's correct.

24 Q. And that well has been drilled?

25 A. Yes.

1 Q. Are you planning on drilling the next well,  
2 the 18 Number 3, in the west half/east half of Section  
3 18?

4 A. Yes, we are.

5 Q. I think the engineer will discuss that well  
6 further, but does that well look to be a successful test?

7 A. Yes.

8 Q. Would that also support your decision to drill  
9 these wells on a stand-up basis?

10 A. Yes.

11 Q. In your opinion, will each quarter/quarter  
12 section, from what you know now, each quarter/quarter  
13 section in the Boxer 3 Number 3 and the Boxer 3 Number 4  
14 wells be productive from the Abo/Wolfcamp formation?

15 A. Yes, I believe it will be.

16 Q. I know you, basically, answered this, but  
17 comparing the maps of the three geologists today, do you  
18 believe that the effective porosity line is basically in  
19 the middle of Section 3?

20 A. I would say I have no idea. It could be much  
21 further north. It's probably not much further south, but  
22 without a data point --

23 Q. It's speculative at this point?

24 A. Yes, it is.

25 Q. And is it in the interest of all the operators

1 to get a firm idea on the northern boundary of this  
2 reservoir?

3 A. Absolutely.

4 Q. And it's not just Cimarex that it would  
5 benefit?

6 A. No.

7 Q. One further point. You said that you would  
8 prefer to start at a certain point and drill toward known  
9 control?

10 A. Yes.

11 Q. COG's well does exactly the opposite, does it  
12 not?

13 A. Yes, it does.

14 Q. So it's drilling west to where they propose  
15 that it thins out?

16 A. Yes. Without a control point there, you  
17 really don't know. The nearest control point is way down  
18 halfway in the section -- west half of Section 9. So  
19 they're literally over two miles away from the nearest  
20 control point.

21 Q. And so from that standpoint, you believe  
22 Cimarex's well proposals for the 3 and 4 wells are  
23 preferable to COG's?

24 A. Yes, I do.

25 MR. BRUCE: Do you have any other comments

1 on your exhibits, Mr. Worthington?

2 A. I don't believe I do. Yeah. I may say just  
3 to clarify a little more on the map, this does show just  
4 those wells drilled down to the Abo/Wolfcamp interval,  
5 because there are shallow wells out here in this area but  
6 I left them off the map.

7 Q. Over to the north and west, there's a Queen  
8 waterflood?

9 A. It is a Queen waterflood, yes, an old  
10 abandoned Queen waterflood or partially abandoned.

11 Q. Okay. Did you prepare the structure map and  
12 the cross-section for presentation today?

13 A. Yes.

14 Q. And in your opinion, is the granting of  
15 Cimarex's applications in the interest of conservation  
16 and the prevention of waste?

17 A. Yes, it is.

18 MR. BRUCE: Mr. Examiner, I move the  
19 admission of the exhibits behind Tabs 8 and 9, the  
20 cross-section and the structure map.

21 EXAMINER FESMIRE: Mr. Hall?

22 MR. HALL: No objection.

23 MS. MUNDS-DRY: No objection.

24 EXAMINER FESMIRE: The cross-section of  
25 maps between those tabs that should have been numbered 8

1 and 9 will be so admitted.

2 Mr. Hall?

3 (Cimarex Tabs 8 and 9 of Exhibit 1 were admitted.)

4 CROSS-EXAMINATION

5 BY MR. HALL:

6 Q. Mr. Worthington, what role did the abandonment  
7 of the Marshall & Winston Caprock State Well in Section  
8 35 have in Cimarex's decision to orient these units  
9 stand-ups?

10 A. Well, I don't know that it had much of a role,  
11 other than, if anything, it reinforced our determination  
12 to try to establish some kind of a control point to the  
13 boundaries of this reservoir.

14 Q. Could you obtain a control point by drilling  
15 across to Section 3 from your acreage in Sections 2 or  
16 Sections 4?

17 A. From Section 4, yes. From Section 2, yes,  
18 that would be another data point.

19 Q. And you indicated it would be of benefit to  
20 Cimarex to prove up its acreage holdings to the north end  
21 of this play by having additional data?

22 A. Yes.

23 Q. How does -- do you know if COG has any  
24 ownership interest in the northern part of the play?

25 A. My landman says they don't have any ownership,

1 so I don't believe they do.

2 Q. So it wouldn't benefit them to prove up your  
3 acreage by drilling these stand-up units; is that  
4 correct?

5 A. That would be correct. Unless they have  
6 acreage to the north of that.

7 Q. What is your porosity cutoff used in drawing  
8 your isopach?

9 A. The porosity cutoff that we use at my company  
10 is a combination of 4 percent cross-plot porosity from  
11 the neutron density curve. But we've also used, in  
12 addition to that, I believe it's a minus two on the  
13 density curve.

14 Q. And you don't have any porosity available on  
15 the Marshall & Winston mud log?

16 A. That's correct.

17 Q. So how do you attribute 15 feet of value to  
18 that well on your isopach? Is that what we call geologic  
19 license?

20 A. It's just an extrapolation.

21 Q. Is it equally probable that the zero contour  
22 line is located to the south of where you've drawn it?

23 A. Yes, it is.

24 Q. We talked briefly about your contours. You're  
25 showing even on your map the thickest part of the



1 reservoir is located in the south half of Section 3?

2 A. That's right. The reservoir thickens to the  
3 south.

4 Q. And we talked briefly about your stand-up well  
5 in Section 18, that Franklin?

6 A. Yes.

7 Q. Isn't it true that you had better well control  
8 down there?

9 A. At the time we drilled that well, I believe we  
10 had drilled wells in Section 17, and so we did have a  
11 control point in the north half -- in that southwest part  
12 of the north half in Section 17. So that was a control  
13 point that we were drilling toward, yes.

14 Q. And is your lay-down well in Section 17 a good  
15 producer?

16 A. Yes.

17 MR. HALL: I have no further questions.

18 EXAMINER FESMIRE: Ms. Munds-Dry?

19 MS. MUNDS-DRY: I think Mr. Hall covered  
20 it. No questions.

21 EXAMINER FESMIRE: Examiner?

22 EXAMINATION

23 BY EXAMINER JONES:

24 Q. If you're going to get points, do you guys --  
25 on these wells, are you going to drill pilot holes?

1 A. Yes.

2 Q. So you're going to -- so you would have four  
3 wells logged across the top?

4 A. Yes. I believe they are all planned to  
5 include a pilot hole.

6 Q. So you're going to get points there. That  
7 sounds good. But why not get a point by starting a  
8 couple of wells in the southwest quarter of 3 and drill  
9 pilot holes there?

10 A. We have done that before. We've alternated  
11 pilot holes from opposite ends so that we do have that  
12 control point.

13 Q. That one well, according to this isopach, it  
14 looks like you're giving it about 13 feet; is that right?

15 A. I don't think I put that kind of a number on  
16 it.

17 Q. I mean on the Marshall & Winston well; is that  
18 right?

19 A. I don't know that I'd lay my ruler on there.

20 Q. What I mean is, you didn't have a -- all you  
21 had was an induction log, is that right, and a mud log?

22 A. Yes.

23 Q. That's kind of a --

24 A. My point is that there is no number there. So  
25 I can move that line either way. But I don't know that

1     it's a zero, but I don't know that it's not 10 or 12. I  
2     don't know that.

3           Q.     How old is that well?

4           A.     It was completed in April of this year.

5           Q.     Oh, it's a brand new well?

6           A.     Yes, the Marshall & Winston well.

7           Q.     And it was drilled unsuccessfully, but it  
8     was -- they went ahead and drilled it east/west.

9           A.     They did.

10          Q.     And do you think if it was drilled  
11     north/south, it might have been a little better? Was it  
12     a failure of the completion on it?

13          A.     I just don't think they really were in the  
14     section as they drilled their lateral.

15          Q.     They drilled it in the wrong spot?

16          A.     They -- maybe. Well, obviously, they drilled  
17     a dry hole.

18          Q.     Any bail-out intervals here? These wells are  
19     not Chesapeake's?

20          A.     I don't believe we own the rights to the  
21     Queen. I believe that there may be another interval that  
22     we've been evaluating called the San Andres. That is  
23     another zone that we encounter shows in frequently when  
24     we drill out here. That is a zone that we've been  
25     evaluating a test in actually a little further west of

1 here. As far as I know, there's no immediate test in  
2 this area.

3 Q. That wasn't a decision factor in where to  
4 drill your vertical?

5 A. No, it was not.

6 Q. When you draw these contour maps, as a  
7 geologist, you have some sort of regional theory to use  
8 your control points to actually do the interpretation,  
9 instead of just letting the computer obviously do it?

10 A. Yes, sir.

11 Q. In this area, what is your theory? How did  
12 you decide to --

13 A. Well, our orientation here is regional. And  
14 what we think has happened here is that the units, as  
15 described earlier, were deposited, but there's been  
16 subsequent diagenetic alterations to these. And the top  
17 has been mentioned, the anhydritic dolomite. That's not  
18 a depositional surface. That's a diagenetic surface.  
19 And it appears to be very irregular, and it appears to be  
20 thinning as you go to the north.

21 That interval that's affected is thinning to  
22 the north, where if you go very much further, it's gone.  
23 So in other words, the anhydrite has come down through  
24 this lower Abo reservoir interval and completely occluded  
25 all the porosity and has created the pinch-out for this

1 tract.

2 Q. So it gradually pinches out somewhere toward  
3 the north?

4 A. Yes.

5 Q. I guess one more question on that. That well  
6 that was -- they decided not to run the radioactive logs  
7 in this well for a reason. It must have had some  
8 problems.

9 A. They must have had some kind of a hole  
10 problem, mechanical problem or something like that,  
11 stability of the hole.

12 Q. Stability of the hole? But you're proposing a  
13 well to be drilled, it looks like about 900 feet  
14 southwest of there. And you don't think you'll have the  
15 same hole problems?

16 A. I think there's a shale within the upper part  
17 of the Abo that creates a lot of hole problems and stuff  
18 like that. My company has found a way to get around  
19 that. I believe they're using an oil-base mud to drill  
20 through that interval to prevent swelling of the clays  
21 and shales and stuff like that. So we've been able to  
22 successfully drill that without any problem.

23 EXAMINER JONES: Thank you.

24

25

## EXAMINATION

1

2 BY EXAMINER FESMIRE:

3 Q. Mr. Worthington, you talked about pilot holes.  
4 I think I've figured it out. Could you tell me exactly  
5 what you mean when you talk about these pilot holes?

6 A. It will give you the direction. It will guide  
7 you to where you want to be. So drill vertically down  
8 through the formation, run your electric logs in there,  
9 and then you've been able to identify your target  
10 interval, and then you compare it to your target at the  
11 end of your lateral a mile away.

12 So a pilot hole, I guess, would be described  
13 as something that's going to guide your way.

14 Q. So it's just a vertical well --

15 A. Yes.

16 Q. -- under your surface location, and it's not  
17 where you intend to be after you kick off?

18 A. That's right, yeah. The landing point for  
19 your horizontal well would be some 2- to 500 feet away  
20 from that vertical point.

21 EXAMINER FESMIRE: Mr. Bruce, I have no  
22 further questions. Do you have anything else?

23 MR. BRUCE: I have no further questions of  
24 this witness.

25 EXAMINER FESMIRE: Thank you very much,

1 Mr. Worthington.

2 Mr. Bruce, do you have another witness?

3 MR. BRUCE: Yes, sir.

4 EXAMINER FESMIRE: Would you state your  
5 name, please?

6 MR. LAUTENSCHLEGER: Jason Lautenschleger.  
7 Jason will suffice.

8 EXAMINER FESMIRE: Yeah, except for the  
9 record, so you're going to have to spell it for us.

10 MR. LAUTENSCHLEGER:  
11 L-a-u-t-e-n-s-c-h-l-e-g-e-r.

12 JASON LAUTENSCHLEGER

13 Having been first duly sworn, testified as follows:

14 DIRECT EXAMINATION

15 BY MR. BRUCE:

16 Q. You've already stated your name,  
17 Mr. Lautenschleger. Where do you reside?

18 A. Midland, Texas.

19 Q. Who do you work for and in what capacity?

20 A. Cimarex Energy as a reservoir engineer.

21 Q. Have you previously testified before the  
22 Division?

23 A. I have not.

24 Q. Could you summarize your educational and  
25 employment background for the Examiners?

1           A.     I graduated with a BS in petroleum engineering  
2     from Colorado School of Mines, Northern Colorado. And I  
3     have been employed by Cimarex since 2007.

4           Q.     Does your area of responsibility -- and you  
5     are a reservoir engineer?

6           A.     Yes, sir.

7           Q.     Does your area of responsibility at Cimarex  
8     include this portion of Southeast New Mexico?

9           A.     Yes. That has been my focus.

10          Q.     This particular area?

11          A.     Yes, sir.

12                   MR. BRUCE: Mr. Examiner, I tender the  
13     witness as an expert reservoir engineer.

14                   EXAMINER FESMIRE: Is there any objection?

15                   MR. HALL: No objection.

16                   MS. MUNDS-DRY: No objection.

17                   EXAMINER FESMIRE: Mr. Lautenschleger, are  
18     you a registered professional engineer? I'm assuming  
19     not, since you've only got three years out of college.

20                   THE WITNESS: I have one year out of  
21     college.

22                   EXAMINER FESMIRE: One year?

23                   THE WITNESS: Yes, sir. I began working  
24     with Cimarex while in school.

25                   EXAMINER FESMIRE: Notwithstanding that



1 there are no objections, we'll accept your credentials.

2 Q. (By Mr. Bruce) Would you look at your first  
3 exhibit and just briefly identify that for the Examiners?

4 A. The first exhibit is a township map reflecting  
5 the lower Abo/Wolfcamp locations that I have included in  
6 my subsequent graphs.

7 Q. All of these have been drilled and completed;  
8 correct?

9 A. No. Some of them are in the process of being  
10 drilled, some of them are waiting on completion, and some  
11 of them are producing.

12 Q. But these are -- so action has been taken on  
13 drilling these wells?

14 A. Yes, sir. These are not permits. These are  
15 actual -- like something after spud.

16 Q. Okay. Move on to your next tab. What does  
17 that reflect?

18 A. This is a graph of Township 15 South, 30 East,  
19 of the lower Abo/Wolfcamp wells shown on the  
20 aforementioned map, summarizing operator experience and  
21 who's done what here.

22 And what this reflects is that Cimarex has  
23 drilled and is operating or producing 20 wells, and this  
24 is a much greater figure than the competition.

25 Q. Mr. Tresner testified about the AFE. It was

1 about 3.8 or \$3.9 million, if I recall. But from your  
2 experience, has Cimarex been drilling wells in line with  
3 that general cost projection?

4 A. Yes. Cost, as we all know, has risen recently  
5 and fairly rapidly. If you look at any given time in the  
6 last year that I've been working this trend, our costs  
7 have been less than our competitors.

8 Q. And go to your final tab. What does this  
9 reflect?

10 A. This is a plot of comparing the wells that I  
11 had production available for. Most of these are  
12 east/west laterals. One, the Franklin 18-4, the  
13 green-colored one, is the only north/south lateral in the  
14 township. And the red on the very top is the average of  
15 the east/west laterals.

16 Q. Through the 35th day of production?

17 A. That's correct. It's just a cumulative value.

18 Q. Now, what is the average for the east/west  
19 wells, the lay-down wells?

20 A. The average cumulative value for the east/west  
21 wells I have available is 11,824 barrels on the 35th day  
22 of production.

23 Q. Then you have the green line, the Franklin  
24 18-4H. What is that?

25 A. That number is 15,261 barrels.

1           Q.     How much greater is that than the average  
2 east/west well?

3           A.     Percent difference is 29 percent greater.

4           Q.     The Franklin 18-4H is your first vertical well  
5 in this area?

6           A.     Yes, sir.

7           Q.     There's another well permitted to the west of  
8 that Franklin 18-4, the Franklin 18-3. What is the  
9 status of that well?

10          A.     It is to be drilled as soon as the rig is  
11 available, and that will be about three weeks.

12          Q.     So in looking at this, the first vertical well  
13 performed above average for the lay-down wells?

14          A.     Yes, sir.

15          Q.     And the second page of this tab, is that  
16 simply the backup data for your plat?

17          A.     Yes, sir. It shows the numbers varying in  
18 five-day increments, the cumulative values, as well.

19          Q.     How many wells has Cimarex drilled this year  
20 in this township, roughly?

21          A.     Maybe 10 would be an approximation.

22          Q.     And what was -- I meant to ask this before.  
23 What was the initial potential on the Franklin 18-4 well?

24          A.     The well IP'd at approximately 750 barrels a  
25 day.

1 Q. That's better than average, too, isn't it --

2 A. Yes, sir.

3 Q. -- the potential on the well?

4 A. Yes, sir.

5 Q. Now, I mean, it's apparent that the large

6 majority of wells in this township have been drilled as

7 lay-down units.

8 A. Yes.

9 Q. Does that necessarily mean it's the best thing

10 to do?

11 A. No.

12 Q. And I think you were here listening to

13 Mr. Gawloski testify, were you not?

14 A. Yes.

15 Q. I think his statement was that the initial

16 wells in this township were drilled as lay-down, and

17 people just kept doing that.

18 A. Sure. If you drill a east/west lateral in a

19 section, that sets up the whole section to be drilled

20 east/west.

21 Q. So once one well is drilled in a section, that

22 sets up the other three wells in the section?

23 A. Yes.

24 Q. In your opinion, would it be better to test

25 Section 3 with stand-up wells?

1           A.     Yes.

2           Q.     Do the results from your first stand-up well  
3     in this township support that?

4           A.     Yes, it does.

5           Q.     Were the exhibits under Tabs 10, 11 and 12  
6     prepared by you or under your supervision?

7           A.     Yes.

8           Q.     In your opinion, is the granting of Cimarex's  
9     applications in the interest of conservation and the  
10    prevention of waste?

11          A.     Yes.

12                   MR. BRUCE:  Mr. Examiner, I move the  
13    admission of Tabs 10 through 12.

14                   MR. HALL:  No objection.

15                   MS. MUNDS-DRY:  No objection.

16                   EXAMINER FESMIRE:  Tab 10 through 12 are  
17    admitted into the record.

18    (Cimarex Tabs 10 through 12 of Exhibit 1 were admitted.)

19                   MR. BRUCE:  Pass the witness.

20                   EXAMINER FESMIRE:  Mr. Hall?

21                               CROSS-EXAMINATION

22    BY MR. HALL:

23           Q.     Can you tell us what your reference to the  
24    Franklin 18-4H, what's the current production rate on  
25    that?

1 A. It is over 300.

2 Q. It has declined?

3 A. They always do.

4 Q. Is Cimarex producing its east/west wells in a  
5 manner that's any different from its production of the  
6 north/south wells?

7 A. No. The way we produce our wells is  
8 determined by the productivity of the well at a given  
9 time. Initially, we produced it one way. And as the  
10 reservoir pressure declines in the localized region  
11 around that wellbore, then we produce it a different way.

12 Q. Tell us how you produce them. Are they on a  
13 pump?

14 A. Initially -- they're all on a pump, yes.  
15 Initially, we are completing them and producing them on  
16 the ESP, electrical submersible pump. This allows us to  
17 get greater draw down and obtain higher initial rates.  
18 Then when the pressure is drawn down, we then change to a  
19 beam pump, which is operationally less expensive, and we  
20 continue to produce the well that way. It's a matter of  
21 achieving the rate that the reservoir is willing to give  
22 up with a pump inflow/outflow performance.

23 Q. From a reservoir engineering perspective, is  
24 there any reason why you cannot develop the north half of  
25 Section 3 with lay-down units?

1 A. No.

2 Q. Your recommendation in response to Mr. Bruce's  
3 question that Section 3 be developed with stand-up units,  
4 is based on nothing more than statistical analysis; is  
5 that correct?

6 A. No, that's not correct.

7 Q. Cimarex is not contending, is it, that COG is  
8 not a competent operator in the Abo/Wolfcamp?

9 A. I'm afraid I'm not sure -- you're asking me if  
10 we believe they're a competent operator?

11 Q. Yes.

12 A. I believe they're a competent operator.  
13 However, we are more experienced in the region and have  
14 shown to be able to drill and complete these wells more  
15 effectively, less expensively, and obtain better results.

16 MR. HALL: Nothing further. Pass the  
17 witness.

18 EXAMINER FESMIRE: Ms. Munds-Dry?

19 CROSS-EXAMINATION

20 BY MS. MUNDS-DRY:

21 Q. Have you performed any production curves for  
22 your Franklin 4-H well?

23 A. Performed production curves?

24 Q. Have you made a production curve?

25 A. Yes.

1 Q. It looks to me like you didn't provide it.  
2 Does it look any different than your east/west wells in  
3 the area?

4 A. No. They decline similarly, if that's what  
5 you're asking. The data is actually demonstrated on the  
6 last exhibit I provided numerically.

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

9 EXAMINER FESMIRE: Mr. Examiner?

10 EXAMINATION

11 BY EXAMINER JONES:

12 Q. Do you put these on automation, the wells out  
13 there? Or do you just have pumpers going on?

14 A. We have pumpers checking these things. I  
15 don't know if they're automated. I believe they're not.

16 Q. But there's plenty of electricity out there?

17 A. Yeah. The entire township is electrified.  
18 That's one of the first things that's done after the well  
19 is drilled.

20 Q. Are those ESPs, nowadays, variable speed  
21 drives?

22 A. Yes, we include variable speed drives. That  
23 way we can optimize the life of the pumps.

24 Q. And you can't put them into the curve, can  
25 you? Or it's not advisable?



1 A. Not advisable, no.

2 Q. What is the radius of your build on the -- is  
3 it 300 feet?

4 A. That's approximately the vertical section  
5 that's accumulated over -- we use short radius.

6 Q. Considered short radius?

7 A. Yeah.

8 Q. What's the gravity of the well out there? I  
9 mean, is it --

10 A. The API?

11 Q. Is it a vast difference between the -- is it  
12 easy to separate from the water?

13 A. Yes. We don't have problems with this.

14 Q. No problems?

15 A. Yes. I don't know the precise number.

16 Q. Do you get involved in the completions?

17 A. I do. I am on site.

18 Q. You witness the frac jobs?

19 A. Yes.

20 Q. Design them?

21 A. (Witness nods head.)

22 Q. You and the service companies design the frac  
23 jobs?

24 A. Yes.

25 Q. Can you -- I guess for my -- can you tell us

1 about it a little bit?

2 A. Sure. Our completion consists of -- we've  
3 done it a number of different ways. We've tested  
4 perforations, perf and plug operations, and we tested  
5 open hole packers. The predominant method of choice has  
6 been open hole packer systems and we've gone that route.  
7 That's a plumbing difference.

8 Now, the fluid system that's pumped has been  
9 mostly the same. Initially, in the field, you might call  
10 it an acid frac, where you go in and do an acid spot of  
11 about 5,000 gallons of 15 percent NEFE HCL, and then  
12 flush that away, and then come in with a cross-linked  
13 acid, something equivalent to BJ deep spot, and then pump  
14 that frac with that.

15 In the development of the entire Abo trend,  
16 operators began using -- started pumping a large amount  
17 of sand and prop it and began seeing a benefit from that.  
18 And we also began doing that over a year ago.

19 And so the frac has changed over to a frac  
20 that's very similar, where we pump a 5,000 gallon -- this  
21 is per stage -- 5,000 gallons of 15 percent NEFE acid,  
22 and then we sweep that away and come in with another  
23 5,000 gallons of the BJ deep spot or equivalent, and  
24 sweep that away. And then we come in and we frac the  
25 well with a 17-pound cross-link bore 8 system as our pad,

1 and we stick with that, and we pump a 20-40 prop in, and  
2 we tail in with resin coat to prevent sand flowback.

3 EXAMINER FESMIRE: See, things haven't  
4 changed that much.

5 THE WITNESS: They have. They've gone  
6 from 35,000 pounds total in a well to two million pounds  
7 of profit.

8 Q. (By Examiner Jones) Two million?

9 A. Yes.

10 Q. You have to truck that in with a train.

11 A. Yeah.

12 Q. How many pounds per gallon do you get, the  
13 maximum concentration?

14 A. Maximum concentration has been up to four  
15 pounds per gallon.

16 Q. How many stages?

17 A. We've been using nine. We tried one with  
18 10 --

19 Q. Ten packers?

20 A. -- several have been with 13. Yes, sir.

21 Q. Then you go drill it all out and --

22 A. Yes. We drill out the ports and return the  
23 liner system back to a full bore.

24 Q. That resin coat doesn't come back at all? I  
25 mean, it helps your sand not to come back?

1 A. Sure.

2 Q. So you can actually run in with a submersible  
3 pump and not get it eaten up by the sand?

4 A. I had one failure with an ESP, and that was on  
5 a well that we -- we were not able to push our coil  
6 tubing out all the way. This was before we had the ports  
7 that we could drill out.

8 The company we work with for open hole packer  
9 systems and stuff, they have switched from using a P110  
10 port to a duck-tail hardened seat, to where we're now  
11 able to drill the 64 wellbore, and we haven't had any  
12 trouble cleaning out the laterals, and we haven't had  
13 sand collection issues.

14 Q. Do you pump your frac down a casing, or is it  
15 down a work string?

16 A. The vertical part of the well is down  
17 seven-inch P110, and the horizontal is down four and a  
18 half inch, the liner system.

19 Q. Okay. So you don't have a dead string or  
20 anything to measure your bottomhole pressures?

21 A. No. Those are calculated bottomhole pressures  
22 from surface pressures.

23 Q. I guess what I'm -- the part we're talking  
24 about here is, the pressures that you get on your frac  
25 jobs, do you notice any difference between stand-up wells

1 and the lay-down wells? In other words, as far as the  
2 porosity around the wellbore.

3 A. No.

4 Q. You don't notice any?

5 A. I haven't noticed any difference. I've only  
6 had one well. So, you know, my numbers are -- I have a  
7 lot of data points here and just a few here. That might  
8 be tough to determine. I haven't observed a decrease.

9 Q. So you don't have failures of fracs when you  
10 drill certain directions? Your frac jobs go off okay?

11 A. We have screened out on east/west laterals,  
12 and we have screened out stages on the north/south  
13 lateral. Some of our best wells have screened out on a  
14 given stage.

15 Q. So you have no real opinion on the stress  
16 direction out here?

17 A. I have an opinion.

18 Q. What do you think?

19 A. Well, there's additional data besides the  
20 statistics of that information presented, and that would  
21 lead me to believe that the orientation of the fractures  
22 is greater than a northeastly -- greater than an 045  
23 orientation and more into an east/west orientation.

24 Q. More toward northeast/southwest?

25 A. More than 45 degrees.

1 Q. A little more?

2 A. Yes. Marginally more.

3 Q. So it kind of mimics your structure mound a  
4 little bit?

5 A. Yes.

6 Q. The dip?

7 A. Unrelated in my opinion, but, yes.

8 EXAMINER JONES: Thank you. That's all I  
9 have.

10 EXAMINER FESMIRE: I do have a couple of  
11 questions.

12 EXAMINATION

13 BY EXAMINER FESMIRE:

14 Q. The first one, though, is sort of a related  
15 one that Will asked you. Where do you hang those ESPs?  
16 Are they up above the beginning of the radius, or are  
17 they right down -- tucked in?

18 A. Well, they're as low as we can get them.

19 Q. So you tuck them in until they don't go any  
20 farther?

21 A. Yes. We don't jam them in the hole, but put  
22 them as -- you know, calculate the depth that the curve  
23 has landed and put them there.

24 Q. Can I talk a minute about EURs? Have you done  
25 any work, other than the average -- using the average to

1 get an EUR on some of these wells?

2 A. Yes. I have EURs for wells in the entire  
3 trend, not available with me today, but I have done that  
4 work and analysis.

5 Q. Could you tell me what sort of range we're  
6 looking at?

7 A. An average -- let me preface this. In the  
8 Caprock, if you look at an entire distribution of the Abo  
9 trend, in the Caprock we find -- it's Township 15 South,  
10 31 East -- the wells are on the upper end of that  
11 distribution. So an average in Caprock is over 300. It  
12 ranges between 300 and 350.

13 Q. Are we talking horizontal wells?

14 A. Yes, sir, the horizontal wells.

15 Q. They have to be re-frac'd during their  
16 lifetime?

17 A. No. This is determined from decline curve  
18 analysis, current productivity.

19 Q. Given the Section 3 locations, do you have an  
20 opinion of what the EUR would be on the Chesapeake  
21 well -- I mean, the Concho wells running east/west?

22 A. It is my opinion that I have no technical  
23 basis to justify a difference between any given 40 in  
24 that section. As you've seen, the maps vary. You have  
25 to look at what the maps are drawn from. And to

1 determine a difference, you would have to assign it --  
2 give it some basis -- and the only point of control is  
3 the Wasp in the next section. So I can't delineate a  
4 given 40 from another.

5 Q. So it's your testimony that we'd probably get  
6 the same per well EUR when we drill north/south or  
7 east/west?

8 A. You may actually obtain more, if a fracture  
9 orientation is more orthogonal to a north/south well.

10 Q. So I guess it's your testimony that by only  
11 drilling two east/west wells, we would be leaving  
12 reserves in the ground?

13 A. If you only drilled two versus the four, yes,  
14 you would be abandoning the reserves.

15 Q. Do you have an opinion as to the amount of  
16 reserves we would be leaving?

17 A. That opinion would be based on averages and  
18 the one data point in Section 2. I couldn't extrapolate  
19 that. After the wells are drilled, I can pinpoint it.

20 One of the advantages to north/south laterals  
21 that Cimarex is proposing is that you have your data  
22 point at the start of your lateral, you have a data point  
23 at the end of your lateral. And, you know, there's a lot  
24 of things going on in between there, but at least I have  
25 two data points, rather than one, for that proration



1 unit. That helps me in terms of booking accuracy and  
2 fitting it volumetrically and for the SCC purposes.

3 Q. The EURs you're talking about, what kind of  
4 projected life are you expecting on these wells to get  
5 those 300 plus EURs?

6 A. They're 40, 60 years, in that range. The  
7 wells flatten out considerably over their lifetime. They  
8 start high and decline rapidly and flatten out. A number  
9 to kind of put on that might be 100 barrels a day.

10 Q. They flatten out at 100 barrels per day?

11 A. They don't stay perfectly flat, but they --  
12 the percent decline is greatly reduced.

13 Q. At about 100 barrels per day?

14 A. Some are higher, some are lower, yes.

15 EXAMINER FESMIRE: I have no further  
16 questions. Mr. Bruce?

17 MR. BRUCE: No, sir.

18 EXAMINER FESMIRE: Mr. Hall?

19 MR. HALL: One question.

20 RECROSS EXAMINATION

21 BY MR. HALL:

22 Q. You indicated you have no technical basis to  
23 attribute more reserves to any particular 40-acre tract  
24 than another in Section 3; is that accurate?

25 A. That's accurate.

1 Q. Does that mean that you did not look at the  
2 geologic maps?

3 A. No. I looked at the geologic maps, but I also  
4 looked at what those geologic maps are based on, and  
5 they're based on one data point of control and another  
6 questionable data point of control. We're inferring that  
7 it's thinning, but it could be thickening. You don't  
8 know until you drill it. We are currently shooting  
9 seismic to help define that edge.

10 Q. So you listened to Mr. Worthington testify  
11 today?

12 A. Yes.

13 Q. And you would agree with him that it's equally  
14 probable that the north half of Section 3 is not  
15 productive?

16 MR. BRUCE: I would object. I don't  
17 believe that was Mr. Worthington's testimony. I think he  
18 testified that the zero line might be a little different  
19 than he --

20 EXAMINER FESMIRE: I think the Examiners  
21 will have a copy.

22 MR. HALL: Let me restate that.

23 Q. (By Mr. Hall) Do you believe that it's  
24 equally probable that the zero contour line on the  
25 isopach could be located either north or south of where

1 it's drawn on Mr. Worthington's map?

2 A. It could be equally.

3 Q. So you don't disagree?

4 A. No.

5 MR. HALL: That's all I have.

6 EXAMINER FESMIRE: Ms. Munds-Dry?

7 MS. MUNDS-DRY: No more questions.

8 EXAMINER FESMIRE: Anything else?

9 MR. BRUCE: No, sir. That's my case.

10 EXAMINER FESMIRE: I assume nobody wants  
11 to give a closing statement?

12 MR. BRUCE: I think it's pretty apparent  
13 where we're going.

14 EXAMINER FESMIRE: Okay. We will take  
15 these three cases under -- oh, Mr. Hall?

16 MR. HALL: While we're still here, let me  
17 move the admission of COG Exhibit 18, which is the  
18 instrument that's recorded in Book 605, page 851, in  
19 Chaves or Eddy County. I'm not sure which.

20 MR. BRUCE: Aren't there two recorded  
21 instruments?

22 MR. HALL: It's also the assignment that's  
23 recorded at 605, page 848, as well. Both comprise  
24 Exhibit 18.

25 MR. BRUCE: No objection.

1 EXAMINER FESMIRE: Exhibit 18 will be  
2 admitted. And Will reminds me that we will not take it  
3 under advisement. We will continue it to the September  
4 2nd Division hearing date and take it up again then.  
5 You've indicated that the additional evidence that you're  
6 wanting to present will be available to the Division  
7 when?

8 (COG Exhibit 18 was admitted.)

9 MR. HALL: That remains to be seen.

10 EXAMINER FESMIRE: You want to leave it  
11 open until September 2nd?

12 MR. HALL: We will know, I think, in  
13 advance of September 2nd.

14 MR. BRUCE: If we do, we can pre-file it.  
15 But at this point, we don't see any need for additional  
16 live testimony.

17 EXAMINER FESMIRE: Why don't we put a  
18 limit on it, August 15th, so we can look at it before  
19 the hearing. August 15th, I don't even know if it's a  
20 weekday, but it's the weekday on August 15th or  
21 immediately -- the first workday immediately preceding  
22 August 15th.

23 MR. BRUCE: The 15th is a Sunday.

24 EXAMINER FESMIRE: So it will be the 16th.  
25 Is there anything else before the Hearing Examiners

1 today?

2 MR. HALL: No, sir.

3 EXAMINER FESMIRE: Thank you all. We will  
4 adjourn.

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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. \_\_\_\_\_,  
heard by me on \_\_\_\_\_.

\_\_\_\_\_, Examiner  
Oil Conservation Division

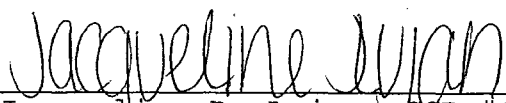
## REPORTER'S CERTIFICATE

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I, JACQUELINE R. LUJAN, New Mexico CCR #91, DO  
HEREBY CERTIFY that on July 22, 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 4th day of August, 2010.

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