

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 DEVON ENERGY PRODUCTION CASE NOS. 16099,
COMPANY, L.P. FOR A NONSTANDARD OIL 16100,
SPACING AND PRORATION UNIT, COMPULSORY 16101
POOLING AND DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

Consolidated with

APPLICATION OF DEVON ENERGY PRODUCTION CASE NOS. 16102,
COMPANY, L.P. FOR A NONSTANDARD OIL 16103,
SPACING AND PRORATION UNIT AND COMPULSORY 16104
POOLING, LEA COUNTY, NEW MEXICO.

and

APPLICATION OF PRIDE ENERGY COMPANY CASE NOS. 16169,
FOR COMPULSORY POOLING, A NONSTANDARD 16170, 16171,
SPACING AND PRORATION UNIT, AND 16172, 16173,
UNORTHODOX LOCATION, LEA COUNTY, NEW 16174
MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

June 12, 2018

Santa Fe, New Mexico

BEFORE: WILLIAM V. JONES, CHIEF EXAMINER
LEONARD LOWE, TECHNICAL EXAMINER
DAVID K. BROOKS, LEGAL EXAMINER

This matter came on for hearing before the
New Mexico Oil Conservation Division, William V. Jones,
Chief Examiner, Leonard Lowe, Technical Examiner, and
David K. Brooks, Legal Examiner, on Tuesday, June 12,
2018, at the New Mexico Energy, Minerals and Natural
Resources Department, Wendell Chino Building, 1220 South
St. Francis Drive, Porter Hall, Room 102, Santa Fe, New
Mexico.

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1	INDEX	
2		PAGE
3	Case Numbers 16099 through 16104 and 16169 through	
4	16174 Called	7
5	Opening Statements	10 - 11
6	Devon Energy Production Company, L.P.'s Case-in-Chief:	
7	Witnesses:	
8	Timothy J. Prout:	
9	Direct Examination by Mr. McMillan	14
	Cross-Examination by Mr. Padilla	44
10	Cross-Examination by Examiner Lowe	48
	Cross-Examination by Examiner Brooks	50
11	Cross-Examination by Examiner Jones	53, 55
	Recross Examination by Examiner Brooks	53
12		
13	Kirk Malinowsky:	
	Direct Examination by Mr. McMillan	66
14	Cross-Examination by Mr. Padilla	77
	Cross-Examination by Examiner Lowe	78
15	Cross-Examination by Examiner Jones	79
16	Anoop K. Sharma:	
17	Direct Examination by Mr. McMillan	85
	Cross-Examination by Mr. Padilla	104
18	Cross-Examination by Examiner Lowe	109
	Cross-Examination by Examiner Brooks	114
19	Cross-Examination by Examiner Jones	125
	Recross Examination by Mr. Padilla	139
20		
21		
22		
23		
24		
25		

1	INDEX (Cont'd)	
2		PAGE
3	Case Numbers 16099 through 16104 and 16169 through 16174	
4		
5	Pride Energy Company's Case-in-Chief:	
6	Witnesses:	
7	Matthew Pride:	
8	Direct Examination by Mr. Padilla	140, 142
	Voir Dire Examination by Mr. McMillan	141
9	Cross-Examination by Mr. McMillan	159
	Cross-Examination by Examiner Lowe	176
10	Cross-Examination by Examiner Jones	177
	Cross-examination by Examiner Brooks	184
11	Recross Examination by Examiner Jones	185
	Redirect Examination by Mr. Padilla	191
12	Recross Examination by Mr. McMillan	193
13	Steve Morris:	
14	Direct Examination by Mr. Padilla	194
	Cross-Examination by Mr. McMillan	226
15	Cross-Examination by Examiner Brooks	257
	Cross-Examination by Examiner Jones	263
16	Redirect Examination by Mr. Padilla	273
17	Proceedings Conclude	276
18	Certificate of Court Reporter	277
19		
20		
21		
22		
23		
24		
25		

1	EXHIBITS OFFERED AND ADMITTED	
2		PAGE
3	Devon Energy Production Company, L.P. Exhibit	
4	Numbers 1 through 8	42
5	Devon Energy Production Company, L.P. Exhibit	
6	Numbers 9 through 14	77
7	Devon Energy Production Company, L.P. Exhibit	
8	Numbers 15	104
9	Devon Energy Production Company, L.P. Exhibit	
10	Numbers 16 through 19	43
11		
12	Pride Energy Company Exhibit Numbers 1 through 12	183
13	Pride Energy Company Exhibit Numbers 13 through 18	226
14	Pride Energy Company Exhibit Number 19	187
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1 (9:04 a.m.)

2 EXAMINER JONES: I'll call this special
3 examiner hearing on Tuesday, June 12th, 2018. Florene
4 has this labeled "Docket Number 25-18."

5 And before we get started, any
6 administrative issues this morning?

7 Has Pride agreed to have Devon start first?

8 MR. PADILLA: They filed first, so I don't
9 mind.

10 EXAMINER JONES: I can call all the cases
11 together, and then if you want to both take turns
12 telling us what you're going to show us today, you can
13 choose to do so. If you don't want to do it that way,
14 well, let me know.

15 MR. McMILLAN: That sounds fine.

16 EXAMINER BROOKS: Is this case going to go
17 on as long as Yates and Pride?

18 MR. PADILLA: You mean --

19 EXAMINER BROOKS: As long as Yates versus
20 Pride.

21 MR. PADILLA: Oh, years ago, right?

22 EXAMINER BROOKS: A few years ago.

23 EXAMINER JONES: That was a contest over
24 drilling clauses.

25 EXAMINER BROOKS: Well, that was the last

1 phase of it. That case went on for about ten years, I
2 think. It went to the Commission three times.

3 MR. PADILLA: I was representing EOG two
4 weeks ago, and Chuck Moran somehow or another figured
5 out that I was representing Pride Energy. And he said,
6 I don't know about those guys (laughter). So it seems
7 like --

8 EXAMINER JONES: Let me call the cases on
9 the docket. I believe we have 12 cases. Six of them
10 are from Devon Energy Production Company, L.P., and six
11 cases are from Pride Energy Company.

12 The cases of Devon Energy Production
13 Company, L.P. are Case Numbers 16099, 16100, 16101, and
14 those three cases are application of Devon Energy
15 Production Company, L.P. for a nonstandard oil spacing
16 unit and compulsory pooling and downhole commingling,
17 Lea County, New Mexico.

18 And then we also have three cases from
19 Devon, Cases 16102, 16103, 16104, and those cases are
20 labeled application of Devon Energy Production Company,
21 L.P. for a nonstandard oil spacing and proration unit
22 and compulsory pooling in Lea County, New Mexico.

23 Let me keep moving here on Pride Energy
24 Company. We have six cases. The first -- I believe all
25 six are labeled the same. These are Cases Numbers

1 16169, 16170, 16171, 16172, 173 and 16174, and all six
2 of those cases are labeled application of Pride Energy
3 Company for compulsory pooling, a nonstandard spacing
4 and proration unit and unorthodox location in Lea
5 County, New Mexico.

6 In all 12 cases or any one of these cases,
7 call for appearances.

8 MR. McMILLAN: Seth McMillan, Montgomery &
9 Andrews, on behalf of Devon Energy Production Company,
10 L.P.

11 EXAMINER JONES: In all six cases?

12 MR. McMILLAN: All six, yes.

13 MR. PADILLA: Ernest L. Padilla of Santa Fe
14 for Pride Energy. I have two witnesses to be sworn.

15 EXAMINER JONES: Any other appearances?

16 I see there are none.

17 Will all the participants that intend to
18 testify please stand?

19 MR. McMILLAN: Yes. And I have three
20 witnesses.

21 EXAMINER JONES: Okay. And could the court
22 reporter please swear the witnesses?

23 (Mr. Prout, Mr. Malinowsky, Mr. Sharma,
24 Mr. Pride and Mr. Morris sworn.)

25 EXAMINER JONES: Thank you-all.

1 Would the attorneys like to begin briefing
2 us what you're going to show today --

3 MR. McMILLAN: Sure.

4 EXAMINER JONES: -- or --

5 OPENING STATEMENT

6 MR. McMILLAN: I'll take that quite
7 literally, and I will be very brief.

8 We have six cases. The first three on the
9 docket are Bone Spring -- 2nd Bone Spring wells, and
10 they're two-mile wells. The latter three cases are
11 Wolfcamp wells, also two-mile wells.

12 We'll be presenting land testimony,
13 geologic testimony, and we have an engineer here to
14 explain to the Examiners just why Devon's development
15 plan is superior to Pride's here.

16 As a matter of procedure, I just ask that
17 these cases formally be consolidated. We will do our
18 best not to jump -- well, we'll do more than our best.
19 We won't be jumping back and forth between the Bone
20 Spring and the Wolfcamp, at least on direct. We'll do
21 the Bone Spring testimony, then move to the Wolfcamp
22 testimony and try to keep things clean, and I think our
23 exhibits are broken out in a way that should also keep
24 things clear. But if at any point it seems to be
25 conflating the cases, please let us know and we'll

1 clarify.

2 EXAMINER JONES: Thank you, Mr. McMillan.
3 Mr. Padilla.

4 OPENING STATEMENT

5 MR. PADILLA: I think pretty much ditto
6 what Mr. McMillan just said about a better drilling
7 plan. We believe we have the better drilling plan by
8 drilling one-mile laterals.

9 You will hear from the evidence and
10 testimony from our engineer that two-mile laterals are
11 not as sufficient as one-mile laterals. You will also
12 hear from our engineer as to the drilling techniques,
13 the stimulation package. They intend to drill six wells
14 using three well pads, and they're going to pretty much
15 lateral -- or, you know, have the Bone Spring --
16 Wolfcamp first and then come up and develop that way.

17 We will also present testimony and evidence
18 on the zipper frac and how Pride is going to develop
19 this property in a much better fashion.

20 So that's where we're coming from, pretty
21 much what we stated in our pre-hearing statement, that
22 the fight here is between one-mile laterals and two-mile
23 laterals. We believe we have the better -- the better
24 case.

25 EXAMINER JONES: Can I ask just for -- just

1 for my information: You each chose to submit six
2 separate spacing units and compulsory poolings for six
3 separate cases, and you didn't choose to apply for a
4 nonstandard spacing unit that's big enough to encompass
5 all the wells you're proposing and then do it that way.
6 Is that going to be part of the testimony, or is that
7 going to be clear as the testimony goes ahead, that that
8 is the preferred way to go? We have 12 cases, and I
9 guess we'll formally consolidate all 12 cases today --

10 EXAMINER BROOKS: For purposes of hearing.

11 EXAMINER JONES: -- for purposes of the
12 hearing.

13 EXAMINER BROOKS: Make a decision about the
14 orders later.

15 EXAMINER JONES: But it appears that we
16 will be -- we will be writing six different hearing
17 orders to cover, because I assume that Devon will have
18 one, then Pride will have the same overlapping acreage.
19 So we will be clear on what the Examiners are expected
20 to do by the end of the day.

21 MR. PADILLA: Mr. Examiner, I think the
22 testimony's going to be very similar for the Bone Spring
23 wells. We don't intend to dwell on each specific well.
24 I think if we talk about a Bone Spring well, we'll pick
25 one and talk about that then. We can pretty much say

1 that the same technology is going to apply to subsequent
2 wells, Bone Spring, and similarly for the Wolfcamp.

3 So in terms of writing an order, since all
4 of these cases are consolidated, I don't see why an
5 order granting our application or Devon's, for that
6 matter, is going to -- couldn't be written on one order
7 for all six wells that are consolidated -- all six
8 applications that are consolidated.

9 EXAMINER BROOKS: Well, as I say, we'll
10 hold that question until we see what the evidence shows.

11 MR. McMILLAN: Okay. Yeah. And I would
12 echo Mr. Padilla's comments and say as a matter of
13 testimony, we won't be speaking to the individual
14 applications. We'll be discussing the beyond the scope
15 as a whole. There is a certain unity there. There is
16 no real differentiation between the three spacing units
17 that we filed for. Perhaps it was just stylistic that
18 we filed six separate applications.

19 EXAMINER JONES: You might have to go to
20 Eastern Europe to find that out.

21 MR. McMILLAN: Maybe. That might be the
22 case.

23 In any event, are we ready for the first
24 witness?

25 EXAMINER JONES: Okay. Has Pride and Devon

1 agreed that Devon goes first on the testimony?

2 MR. PADILLA: (Indicating.)

3 EXAMINER JONES: Okay. Mr. McMillan,
4 please proceed.

5 EXAMINER BROOKS: Have the witnesses been
6 sworn?

7 EXAMINER JONES: Yes.

8 MR. McMILLAN: Call Tim Prout.

9 TIMOTHY J. PROUT,
10 after having been previously sworn under oath, was
11 questioned and testified as follows:

12 DIRECT EXAMINATION

13 BY MR. McMILLAN:

14 **Q. Good morning, sir.**

15 A. Good morning.

16 **Q. Would you please state your full name for the**
17 **record?**

18 A. Timothy John Prout.

19 **Q. Where do you live?**

20 A. Edmund, Oklahoma.

21 **Q. By whom are you employed?**

22 A. Devon Energy.

23 **Q. In what capacity?**

24 A. Senior landman.

25 **Q. Are you authorized to testify today on Devon's**

1 **behalf?**

2 A. Yes.

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

6 A. I have not.

7 **Q. Would you then please summarize your**
8 **educational background for the Examiners?**

9 A. I have a Bachelor's in Business Energy Commerce
10 from Texas Tech and a Master's of Science in Energy
11 Management from Oklahoma City University.

12 **Q. Excellent.**

13 **Would you likewise please summarize your**
14 **work history?**

15 A. I've been a landman at Devon for seven years.

16 **Q. Are you familiar with the applications filed in**
17 **these cases?**

18 A. Yes.

19 **Q. And are you familiar with the subject lands?**

20 A. Yes.

21 MR. McMILLAN: Mr. Examiner, I would tender
22 Tim Prout as an expert petroleum landman.

23 EXAMINER JONES: Objections?

24 MR. PADILLA: No objection.

25 EXAMINER JONES: He is so qualified.

1 MR. McMILLAN: Excellent. Thank you.

2 Q. (BY MR. McMILLAN) Sir, would you briefly state
3 what Devon seeks in its three Bone Spring applications?
4 We'll start there, with the Bone Spring.

5 A. Okay. In Case 16099, Devon seeks an order
6 approving a nonstandard oil spacing and proration unit
7 in the 2nd Bone Spring Formation comprised of the west
8 half-west half of Section 16 and the west half-west half
9 of Section 21, Township 25 South, Range 32 East, Lea
10 County, New Mexico, and pooling all mineral interests in
11 the 2nd Bone Spring Formation underlying the nonstandard
12 unit. The unit will be dedicated to Devon's proposed
13 Marwari 28-16 State Fed Com 232H well.

14 EXAMINER BROOKS: What's the name of that
15 well again?

16 THE WITNESS: Marwari 28-16.

17 EXAMINER BROOKS: How do you spell it?

18 THE WITNESS: M-A-R-W-A-R-I.

19 EXAMINER BROOKS: M-A-R-W-A-R-I. Okay.

20 And what was the rest of the name?

21 THE WITNESS: 28-16 State Fed Com 232H.

22 EXAMINER JONES: Go ahead.

23 THE WITNESS: Case Number 16100, Devon
24 seeks an order approving a nonstandard oil spacing and
25 proration unit in the 2nd Bone Spring Formation

1 comprised of the east half-west half of Section 16 and
2 the east half-west half of Section 21, Township 25
3 South, Range 32 East, Lea County, New Mexico, and
4 pooling all mineral interests in the 2nd Bone Spring
5 Formation underlying the nonstandard unit. The unit
6 will be dedicated to Devon's proposed Marwari 21-16
7 State Fed Com 234H.

8 EXAMINER BROOKS: You said the east half of
9 the west half. Is that the east half of the west half
10 of Section 16 and of Section 21?

11 THE WITNESS: Yes, sir.

12 EXAMINER BROOKS: So it's the same -- it's
13 a stand-up unit?

14 THE WITNESS: Yes, sir.

15 EXAMINER BROOKS: Okay. Thank you.

16 THE WITNESS: In Case 16101, Devon seeks an
17 order approving a nonstandard oil spacing and proration
18 unit in the 2nd Bone Spring Formation comprised of the
19 west half-east half of Section 16 and the west half-east
20 half of Section 21, Township 25 South, Range 32 East,
21 Lea County, New Mexico, and pooling all mineral
22 interests in the 2nd Bone Spring Formation underlying
23 the nonstandard unit. The unit will be dedicated to
24 Devon's proposed Marwari 28-16 State Fed Com 236H.

25 EXAMINER BROOKS: What was the number on

1 the east half-west half?

2 THE WITNESS: On the east half-west half is
3 the 234H.

4 EXAMINER BROOKS: Thank you.

5 Q. (BY MR. McMILLAN) Have you, sir, prepared
6 certain exhibits for introduction in this case?

7 A. Yes.

8 Q. Let's take a look at those now. If you'll turn
9 with me to Exhibit 1, is this kind of a bird's-eye view
10 of the area showing, in the red box, our proposed
11 project area?

12 A. Yes, sir.

13 Q. And will we be zooming in, in the testimony, on
14 the area in the red box?

15 A. Yes.

16 Q. Great.

17 Let's turn now to Exhibit 2. Are these the
18 C-102s submitted for each of the Bone Spring wells?

19 A. Yes.

20 Q. And are the C-102s separated by blue sheets in
21 our exhibit packet for ease of reference?

22 A. Yes.

23 Q. Can you state for the record what the surface-
24 and bottom-hole locations are for each of the proposed
25 wells?

1 A. For the Marwari 28-16 State Fed Com 232H, the
2 surface hole is 175 feet from the north line and 410
3 feet from the west line in Section 28, 25 South, Range
4 32 East, and the bottom hole is 330 feet from the north
5 line and 330 feet from the west line of Section 16, 25
6 South, 32 East.

7 And for the Marwari 21-16 State Fed Com
8 234, the surface hole is 230 feet from the south line
9 and 1,480 feet from the west line in Section 21, 25
10 South, 32 East, and the bottom hole is 330 from the
11 north line, 1,650 from the west line in Section 16, 25
12 South, 32 East.

13 And for the Marwari 28-16 State Fed Com
14 236, the surface hole is 175 feet from the north line
15 and 1,950 from the east line in Section 28, 25 South, 32
16 East, and the bottom hole is 330 from the north line and
17 1,980 from the east line of Section 16, 25 South, 32
18 East.

19 **Q. For the record, have the surface-hole locations**
20 **for the Bone Spring wells changed since Devon filed its**
21 **applications?**

22 A. No.

23 **Q. Is it your understanding that 2nd Bone Spring**
24 **wells in this area are governed by statewide pool rules?**

25 A. Yes.

1 Q. And what are the setbacks for oil wells here?

2 A. 330 from the east line.

3 Q. I would note that the surface-hole locations
4 aren't necessarily within the 330s. However, are the
5 take points situated within the setbacks?

6 A. Yes.

7 Q. Remind us what the primary objective is for
8 these wells.

9 A. 2nd Bone Spring Sand.

10 Q. And, again, does Devon own the right to drill
11 in each tract that will be traversed by the well units?

12 A. No. Devon doesn't own in the north half of
13 Section 16, 25 South, 32 East.

14 Q. Is that Pride's acreage?

15 A. Correct.

16 Q. How long has Devon owned its 2nd Bone Spring
17 interests in Sections 16 and 21?

18 A. Devon acquired the south half of Section 16 in
19 July of 2017, and we acquired our interest in Section 21
20 in December of 2011.

21 Q. Am I correct in noting that some of the acreage
22 in play here today is, in fact, located within something
23 called the Cotton Draw Unit?

24 A. Yes. The southeast of the southwest quarter
25 and the southwest quarter of the southeast quarter in

1 Section 16 is part of the Cotton Draw Unit.

2 Q. Is your understanding that's acreage on which
3 Pride seeks to drill?

4 A. Correct.

5 Q. Who is the named operator of the Cotton Draw
6 Unit?

7 A. Devon.

8 Q. When did Devon first commence its geologic
9 evaluation of the area as to the 2nd Bone Spring?

10 A. At the latest, it was the spring of 2011.

11 Q. So a good seven years ago?

12 A. Yes.

13 Q. And when did Devon submit APDs to the -- for
14 these wells?

15 A. APDs were submitted to the BLM on March 1st of
16 2018, and once the APDs are approved by the BLM, they'll
17 be submitted to the OCD.

18 Q. Please give the Examiners a sense of the
19 experience that Devon has in drilling and operating
20 these types of horizontal wells in the Bone Spring?

21 A. Devon has extensive experience drilling these
22 types of horizontal oil wells in the Bone Spring.
23 Across the Basin, Devon has drilled and continues to
24 drill hundreds of horizontal wells. More locally within
25 the Cotton Draw, Devon currently operates 89 2nd Bone

1 Spring wells.

2 Q. This is kind of Devon's home turf, isn't it?

3 A. Yes.

4 EXAMINER BROOKS: Is this land within the
5 Cotton Draw Unit?

6 THE WITNESS: 80 acres within Section 16 is
7 part of the Cotton Draw Unit. Yes.

8 EXAMINER BROOKS: Okay. Thank you.

9 Q. (BY MR. McMILLAN) I think as previously noted,
10 the units proposed here are oriented north-south,
11 correct?

12 A. Yes.

13 Q. And is that north-south orientation consistent
14 with the prevailing development pattern in the area?

15 A. Yes.

16 Q. And would just even a cursory look at Exhibit 1
17 show that generally speaking the wells in this area are,
18 in fact, north-south?

19 A. Yes.

20 Q. And actually turning back to Exhibit 1 --
21 actually, let's not do that. That's not germane, and I
22 want to keep it moving.

23 Given your involvement in developing these
24 reserves, in your opinion, has Devon acted diligently to
25 develop --

1 A. Yes. Devon is planning to drill two-mile wells
2 that will allow us to access reserves that would end up
3 stranded if developed with one-mile wells and cause half
4 the disturbance that developing with one-mile wells
5 would cause.

6 Q. Let's look at ownership. Let's turn to the
7 third exhibit, please. Is this where you've broken down
8 ownership for each of the three proposed units?

9 A. Yes.

10 Q. And is ownership the same across the three --

11 A. Yes, sir.

12 Q. What percentage of the acreage in the proposed
13 units is voluntarily committed to each of the Bone
14 Spring wells?

15 A. 75 percent, being what Devon owns.

16 Q. So Devon owns 75 percent working interest in
17 each of the three proposed units?

18 A. Correct.

19 Q. Great.

20 EXAMINER BROOKS: No working interest
21 owners except Devon and Pride?

22 THE WITNESS: Correct.

23 Q. (BY MR. McMILLAN) Piggy-backing on that, are
24 there any unleased mineral interest -- actually, let me
25 back up.

1 Are you asking the Division to pool the
2 unjoined working interests?

3 A. Yes, sir.

4 Q. And that's Pride Energy?

5 A. Yes.

6 Q. Are there any unleased mineral interest owners?

7 A. No.

8 Q. Does Devon seek the imposition of a 200 percent
9 risk penalty against the unjoined working interests?

10 A. Yes.

11 Q. Does Devon also seek to be designated operator
12 for the wells?

13 A. Yes, sir.

14 Q. Now, let's clear something up. As Examiner
15 Jones correctly noted, the cases -- the three Bone
16 Spring cases are captioned as requesting downhole
17 commingling. As we sit here today, does Devon still
18 seek authorization for downhole commingling?

19 A. Not anymore. Originally, we had applied for
20 downhole commingling on our Bone Spring applications
21 because it appeared at one time the wellbores would
22 potentially be crossing pool boundaries. After further
23 investigation, we are convinced that's not the case, and
24 we withdraw that request.

25 Q. And because I anticipate the Examiners may ask,

1 do you have handy the pool number that we're dealing
2 with here?

3 A. Yes.

4 EXAMINER JONES: Thank you.

5 MR. McMILLAN: Sure.

6 THE WITNESS: It would be WC-025 G-07 [sic]
7 S253206M; Bone Spring, Pool Code 96715.

8 EXAMINER JONES: Thanks.

9 Q. (BY MR. McMILLAN) Turning to Exhibit 4, are
10 these Devon's well-proposal letters reflecting your
11 efforts to obtain the joinder of Pride Energy?

12 A. Yes.

13 Q. In addition to the well-proposal letter, can
14 you discuss for the Examiners any additional efforts
15 that you made to obtain the voluntary participation of
16 Pride?

17 A. In addition to proposing a JOA, Devon has also
18 made several attempts to all the roundabout interest
19 from Pride.

20 Q. Were efforts made both in writing and by
21 telephone?

22 A. Yes.

23 Q. So we're talking about multiple efforts here?

24 A. Yes.

25 Q. Over what kind of time period?

1 A. Several months.

2 **Q. And ultimately did Pride respond to your**
3 **communications?**

4 A. The last communication we had, Pride did not
5 want to sell all of their interest, and so we made an
6 offer to buy a divided interest in their well.

7 **Q. And did Pride respond to that offer?**

8 A. No.

9 **Q. Did you also receive well-proposal letters from**
10 **Pride Energy?**

11 A. We did.

12 **Q. And while we don't have them as an exhibit, in**
13 **your recollection, was the offer -- what was the offer**
14 **made by Pride?**

15 A. I believe it was 1,500 an acre, delivering
16 87-and-a-half, and \$1,000 per acre, delivering
17 81-and-a-quarter NRI.

18 **Q. In your experience in this market, was that a**
19 **reasonable offer?**

20 A. No. In fact, we offered 18- to \$20,000 an acre
21 to buy Pride's interest.

22 **Q. So to be clear, they offered you \$1,500 an**
23 **acre, and Devon was willing to pay 18,000 to 20,000 per**
24 **acre?**

25 A. Correct.

1 Q. Are the AFEs for the three Bone Spring wells
2 attached to the well-proposal letters in Exhibit 4?

3 A. Yes.

4 Q. Just review for us briefly the total estimated
5 completed well costs for each of these three wells.

6 A. \$4,935,402.15 for the total drilling and
7 completion.

8 Q. And is that the same number for all three
9 wells?

10 A. Yes.

11 Q. Per well?

12 A. Per well.

13 Q. Okay. Have these AFE cost estimates been
14 updated from the time of Devon's well-proposal letters?

15 A. No.

16 Q. Are these costs in line with what is being
17 charged by other operators in the area for similar
18 wells?

19 A. They're in line with AFEs that Devon receives
20 from other operators in the area.

21 Q. And to be clear, they're in line specifically
22 with two-mile wells --

23 A. Correct.

24 Q. -- in the area?

25 Have you also made an estimate of overhead

1 and administrative costs while drilling and producing
2 the well?

3 A. Yes.

4 Q. And what are those?

5 A. 11,000 per month drilling overhead and 1,100 a
6 month for producing overhead.

7 Q. Again, for a two-mile well in this area, are
8 these costs in line with what is being charged by other
9 operators?

10 A. Yes, sir.

11 Q. Are they, in fact, very competitive?

12 A. I believe so.

13 Q. Do you recommend that these drilling and
14 producing overhead rates be incorporated into the order
15 that results from this hearing?

16 A. Yes.

17 Q. And does Devon request that the order to be
18 issued in this case provide for an annual adjustment to
19 the drilling and producing overhead rates?

20 A. Yes.

21 Q. Now, we'll get into this a bit more with our
22 technical witnesses, but from a land perspective, have
23 you reviewed Pride's development plans such as they are?

24 A. Yes.

25 Q. And these are the plans that they'll be

1 **presenting in Cases 16169 through 16171?**

2 A. Yes.

3 **Q. Do you have -- as you sit here now, do you have**
4 **any concerns or criticisms concerning those plans?**

5 A. Yes. The shorter laterals will be less
6 efficient and stranding acreage between the two
7 setbacks. There will be significantly more surface
8 disturbance and economic waste from drilling the
9 additional wells and installing new facilities.

10 **Q. And going to surface disturbance, how many well**
11 **pads is Devon proposing to work off of here?**

12 A. Three.

13 **Q. Let's move now to the Wolfcamp wells. And in**
14 **doing so, let's set the stage. Could you briefly state**
15 **what Devon seeks in its three Wolfcamp applications?**

16 A. In Case 16102, Devon seeks an order approving a
17 nonstandard oil spacing and proration unit in the
18 Wolfcamp Formation comprised of the west half-west half
19 of Section 16 and west half-west half of Section 21,
20 Township 25 South, Range 32 East, Lea County, New
21 Mexico, and pooling all mineral interests in the
22 Wolfcamp Formation underlying the nonstandard unit. The
23 unit will be dedicated to Devon's proposed Marwari 28-16
24 State Fed Com 712H well.

25 In Case Number 16013 [sic], Devon seeks an

1 order approving a nonstandard oil spacing and proration
2 unit in the Wolfcamp Formation comprised of the east
3 half-west half of Section 16 and the east half-west half
4 of Section 21, Township 25 South, Range 32 East, Lea
5 County, New Mexico, and pooling all mineral interests in
6 the Wolfcamp Formation underlying the nonstandard unit.
7 The unit will be dedicated to Devon's proposed Marwari
8 21-16 State Fed Com 714H.

9 And in Case Number 16014 [sic], Devon seeks
10 an order approving a nonstandard oil spacing and
11 proration unit in the Wolfcamp Formation comprised of
12 the west half-east half of Section 16 and the west
13 half-east half of Section 21, Township 25 South, Range
14 32 East, Lea County, New Mexico, and pooling all mineral
15 interests in the Wolfcamp Formation underlying the
16 nonstandard unit. The unit will be dedicated to Devon's
17 proposed Marwari 28S 16 State Fed Com 716H well.

18 EXAMINER BROOKS: You went awfully fast
19 there. The west half-west half was the 16-31 [sic],
20 28-6 -- Marwari 28-6 number what?

21 THE WITNESS: West half-west half was the
22 Marwari 28-16 State Fed Com 712H.

23 EXAMINER BROOKS: 712?

24 THE WITNESS: Yes, sir.

25 EXAMINER BROOKS: And that's 712 -- not

1 7-12 -- H?

2 THE WITNESS: Yes, sir. Correct.

3 EXAMINER BROOKS: Okay. And what was the
4 west half-east half? I just need the --

5 THE WITNESS: This one is Marwari 21-16.

6 EXAMINER BROOKS: Okay. The first was one
7 was 28-16.

8 THE WITNESS: Yes, sir.

9 EXAMINER BROOKS: Okay. That's just the
10 surface, is going to be in 28.

11 Okay. The second one was 21 -- and east
12 half-west half is the 21-16 number what?

13 THE WITNESS: 714H.

14 EXAMINER BROOKS: 714H.

15 And the west half-east half is 716H?

16 THE WITNESS: Yes, sir, 28-16.

17 EXAMINER BROOKS: Okay. Very good. Thank
18 you.

19 Q. (BY MR. McMILLAN) Moving on to Exhibit 5, are
20 these the C-102s for the three Wolfcamp wells?

21 A. Yes.

22 Q. And once again for the record, can you go ahead
23 and recite for us the bottom-hole locations for the
24 712H, the 714H and the 716H wells?

25 A. Yes. For the 712H, the surface hole is 175

1 feet from the north line and 380 feet from the west
2 line, Section 28, 25 South, 32 East, and the bottom hole
3 is 330 from the north line and 380 from the west line,
4 Section 16, 25 South, 32 East.

5 And for the Marwari 21-16 State Fed Com
6 714H is 230 from the south line, 1,510 from the west
7 line of Section 21, 25 South, 32 East. And the bottom
8 hole is 330 from the north line and 2,300 from the west
9 line, Section 16, 25 South, 32 East.

10 And then the Marwari 28-16 State Fed Com
11 716H, the surface hole is 175 feet from the north line
12 and 1,920 from the east line of Section 28, 25 South, 32
13 East, and the bottom hole is 330 from the north line,
14 1,660 from the east line, Section 16, 25 South, 32 East.

15 **Q. Now, have the surface-hole locations for these**
16 **Wolfcamp wells changed since Devon filed its**
17 **applications?**

18 A. Yes.

19 **Q. And why?**

20 A. A mistake was made in putting the application
21 together, but this rectifies the mistake on the record
22 that the surface locations I just testified to are
23 correct.

24 **Q. Is it your understanding that Wolfcamp wells in**
25 **this area are governed by statewide pool rules?**

1 A. Yes.

2 Q. And what are the setbacks in those rules in
3 this pool?

4 A. 330.

5 Q. And while we're at it, why don't we give the
6 Examiners the pool code here. Take your time.

7 A. I don't know if I have this one.

8 EXAMINER JONES: Is it as it is on the
9 application?

10 THE WITNESS: Yes.

11 MR. McMILLAN: Yes.

12 EXAMINER JONES: 98270? Is that correct?

13 THE WITNESS: I believe so. The
14 application is correct.

15 EXAMINER JONES: It says "Upper Wolfcamp."
16 Was that intentional?

17 THE WITNESS: Yes.

18 Q. (BY MR. McMILLAN) Let's take a look. Here's
19 the application for the 712.

20 A. Yes. It's WC-025 G-07 S253216D; Upper Wolfcamp
21 Pool, Pool Code 98270.

22 EXAMINER JONES: Thank you.

23 Q. (BY MR. McMILLAN) And now with respect to these
24 wells, will the first and last take points be situated
25 within the 330-foot setbacks that you just told us

1 **about?**

2 A. Yes.

3 **Q. Remind us what the primary objective is for**
4 **these wells?**

5 A. The Wolfcamp A.

6 **Q. Does Devon own the right to drill in each tract**
7 **that will be traversed by these wellbores?**

8 A. No. Devon does not own acres in the north half
9 of Section 16.

10 **Q. As to the interests that Devon does own in**
11 **Sections 16 and 21, how long has Devon owned those**
12 **interests?**

13 A. Devon acquired interests in the south half of
14 Section 16 in July of 2017 and its interest in Section
15 21 in December of 2011.

16 **Q. And when did Devon first commence its geologic**
17 **evaluation of the area as to the Wolfcamp?**

18 A. Prior to the fall of 2014, and for the last two
19 years, we've had a technical team that's solely focused
20 on Wolfcamp evaluation.

21 **Q. Has Devon yet submitted its APDs for the**
22 **Wolfcamp wells?**

23 A. No.

24 **Q. What experience does Devon have for drilling**
25 **and operating these types of horizontal oil wells in the**

1 **Wolfcamp?**

2 A. We have a minimum of 20 to 30 Wolfcamp wells in
3 the Lower Basin, and more locally, we recently finished
4 two two-mile wells in Section 27, 25 South, 31 East.
5 And we have a one-mile Wolfcamp well that was drilled in
6 2015.

7 Q. So the wells that you've just described, those
8 are -- those are really in the neighborhood, huh?

9 A. Yes.

10 Q. Again, we're looking at a north-south
11 orientation for these wellbores; is that correct?

12 A. That's correct.

13 Q. And, again, these are consistent with the
14 development pattern in the area?

15 A. Yes.

16 Q. In your opinion, has Devon acted diligently to
17 develop these Wolfcamp reserves?

18 A. Yes. Devon is planning to drill two-mile wells
19 that will allow us to access reserves that would end up
20 stranded if developed with one-mile wells and cause half
21 the surface disturbance that developing with one-mile
22 wells would cause.

23 Q. Let's look at ownership. This should seem
24 familiar. But we're talking Wolfcamp here as opposed to
25 the Bone Spring. Let's look at Exhibit 6. Are these

1 the ownership breakdowns that you developed for each of
2 the three Wolfcamp units?

3 A. Yes.

4 Q. And tell us what percentage of the acreage
5 Devon owns a working interest in.

6 A. Devon owns a 75 percent working interest in
7 each of the wells.

8 Q. 25 percent to whom?

9 A. Pride.

10 Q. And these wells -- in this acreage, are there
11 any unleased mineral interest owners?

12 A. No.

13 Q. Are you asking the Division to pool the
14 unjoined working interests?

15 A. Yes, sir.

16 Q. For the sake of clarity, again, that's just
17 Pride?

18 A. Yes, sir.

19 EXAMINER BROOKS: All the working interests
20 are owned by Devon and Pride?

21 THE WITNESS: Yes, sir.

22 EXAMINER BROOKS: Nobody else?

23 THE WITNESS: That's correct.

24 Q. (BY MR. McMILLAN) Does Devon also seek the
25 imposition of a 200 percent risk penalty against the

1 unjoined working interests?

2 A. Yes.

3 Q. Does Devon seek to be designated operator of
4 the wells?

5 A. Yes.

6 Q. And for clarification, does Devon seek
7 authorization for downhole commingling in these wells?

8 A. No.

9 Q. Let's turn to Exhibit 7. Do these look like
10 Devon's well-proposal letters as to the Wolfcamp wells?

11 A. Yes.

12 Q. And these were sent to Pride Energy on or about
13 February 28th, 2018?

14 A. Yes.

15 Q. These well-proposal letters reflect part of
16 your efforts to obtain the joinder of Pride Energy; is
17 that correct?

18 A. Yes.

19 Q. Can you discuss any additional efforts you
20 might have made to obtain voluntary participation in
21 your Wolfcamp wells?

22 A. In addition to proposing a JOA to Pride Energy,
23 Devon also made several attempts to purchase all
24 undivided interests from Pride.

25 Q. And were these in connection with the

1 communications you described with respect to the Bone
2 Spring wells?

3 A. Correct.

4 Q. So we don't need to go through that again.

5 In any event, in your opinion, did Devon
6 make a good-faith effort to locate all the unleased
7 mineral interest owners and working interest owners and
8 communicate with them in order to obtain voluntary
9 participation?

10 A. Yes.

11 Q. And did you receive from Pride well-proposal
12 letters as to the Wolfcamp?

13 A. Yes.

14 Q. And do you recall the details of the proposal
15 that was made?

16 A. Yes. I've got it here. They just proposed
17 one-mile wells and offered to purchase Devon's interest
18 for \$1,500 a net acre, delivering an 87-and-a-half NRI,
19 and \$1,000 a net acre, delivering an 81-and-a-quarter
20 NRI.

21 Q. Again, with all your experience working in this
22 area, does that seem like a reasonable offer?

23 A. No, sir.

24 Q. Are the AFEs for the Wolfcamp wells attached to
25 the well-proposal letters in Exhibit 7?

1 A. Yes.

2 Q. Can you just give us the total estimated
3 completed well costs for these wells?

4 A. \$10,785,166.26 for the total drilling and
5 completion per well.

6 Q. That's per well. And, again, these are
7 two-mile laterals?

8 A. Correct.

9 Q. Have these AFE cost estimates been updated from
10 the time of Devon's original well proposals?

11 A. No.

12 Q. Are they in line with what is being charged by
13 other operators in the area for similar wells?

14 A. They're in line with AFEs that Devon receives
15 from other operators in the area with similar wells.

16 Q. And just to be clear, Devon receives many AFEs
17 from other operators in the area, correct? We're not
18 just talking about one or two data points?

19 A. Correct.

20 Q. Have you made an estimate of overhead
21 administrative costs while drilling and producing these
22 wells?

23 A. Yes.

24 Q. And what are they?

25 A. 11,000 per month drilling overhead and 1,100 a

1 month producing overhead.

2 Q. Are those in line with what's being charged by
3 other operators?

4 A. Yes.

5 Q. Are they quite competitive for a two-mile well?

6 A. We believe they are.

7 Q. Do you recommend that these drilling and
8 producing overhead rates be incorporated into the order
9 that results from this hearing?

10 A. Yes.

11 Q. Do you request that the order be issued
12 providing for an annual adjustment of the drilling and
13 producing overhead rates?

14 A. Yes.

15 Q. And have you reviewed Pride Energy's Wolfcamp
16 plans?

17 A. Yes.

18 Q. And those are to be presented in Cases 16172
19 and 16174, correct?

20 A. Correct.

21 Q. From a land perspective, do you have any
22 particular concerns or criticisms?

23 A. Shorter laterals being less efficient, which
24 would strand acreage, and the setbacks causing more
25 surface disturbance, as well as economic waste and

1 additional surface locations and facilities.

2 Q. And as to both the Bone Spring and the Wolfcamp
3 applications, in your opinion as an expert petroleum
4 landman, would the granting of Devon's applications and
5 the denial of Pride's be in the best interest of
6 conservation, the prevention of waste and the protection
7 of correlative rights?

8 A. Yes. Granting Devon's application shows all --
9 will allow all the minerals to be developed in the most
10 efficient manner with a minimal number of surface
11 disturbance, not to mention that Devon already has
12 existing infrastructure in the area.

13 Q. Have you received any letters of support from
14 any interest owners here?

15 A. Yes.

16 Q. Let's turn to Exhibit 8. Is this a letter from
17 V-F Petroleum?

18 A. Yes.

19 Q. Is it directed to you?

20 A. "To whom it may concern," yes.

21 Q. And down below, is there a cc to you?

22 A. Yes.

23 Q. And what is V-F Petroleum's role in this?

24 A. They are an override in the south half of
25 Section 16.

1 Q. And is the thrust of the letter that V-F
2 Petroleum supports Devon's applications?

3 A. Yes.

4 Q. Sir, were Exhibits 1 through 9 -- 1 through
5 8 -- 1 through 8 prepared by you or at your direction
6 and control?

7 A. Well, 1 through 7, 8 being the letter, of
8 course, from V-F that was generated by V-F.

9 Q. Great. Thanks for that clarification.

10 MR. McMILLAN: At this time, Mr. Examiner,
11 I would tender Exhibits 1 through 8 for admission.

12 EXAMINER JONES: Any objection?

13 MR. PADILLA: No objection.

14 EXAMINER JONES: Exhibits 1 through 8 are
15 admitted for Devon.

16 (Devon Energy Production Co., L.P. Exhibit
17 Numbers 1 through 8 are offered and
18 admitted into evidence.)

19 MR. McMILLAN: I'd also go ahead at this
20 time and tender Exhibits -- what we have as Exhibits 16
21 and 17. Those are Montgomery & Andrews's voluminous
22 efforts to notify not just the working interest owners,
23 of course, but the overrides, as well as the offsets.
24 I'm pleased to report that all of the green
25 cards are attached. And for those that we never

1 received a green card, we published and we published
2 timely. Those are Exhibits 18 and 19, two separate
3 publications, one of April 15, 2018, the second, May 15,
4 2018. And I would represent to the Examiners that
5 notice is complete as to these applications.

6 And I would tender Exhibits 16 through 19
7 at this time.

8 EXAMINER JONES: No objection?

9 MR. PADILLA: (Indicating.)

10 EXAMINER JONES: Mr. Brooks, okay for
11 notice, or are you going to ask later?

12 EXAMINER BROOKS: I'm going to ask about
13 due diligence in the testimony --

14 EXAMINER JONES: Okay. Thank you.

15 We'll admit, as we said before, Exhibits 1
16 through 8 and Exhibits 16, 17, 18 and 19 for Devon.

17 (Devon Energy Production Co., L.P. Exhibit
18 Numbers 16 through 19 are offered and
19 admitted into evidence.)

20 MR. McMILLAN: Thank you. That concludes
21 my direct examination of this witness.

22 EXAMINER JONES: Mr. Padilla.

23 CROSS-EXAMINATION

24 BY MR. PADILLA:

25 Q. Mr. Prout, you made a proposal to Pride two

1 days after you received Pride's proposal; isn't that
2 right?

3 A. That's correct.

4 Q. Have you filed -- you testified that you filed
5 the APDs with the BLM on March 1st?

6 A. Yes, sir.

7 Q. Have you conducted an on-site review with the
8 BLM?

9 A. I'm not sure. I would assume so, but that's
10 handled by our Artesia office.

11 Q. You don't know whether you have done an on-site
12 review for drilling your wells?

13 A. I do not. If that has to be done to submit the
14 APDs, then we have, because we have submitted the APDs.
15 But --

16 Q. Do you know whether the BLM is short-staffed
17 for on-site --

18 A. It's my understanding that they are.

19 Q. But you don't know whether or not, in fact,
20 they have been on-site to have your well locations
21 approved?

22 A. That's correct. I do not know for a fact that
23 we have.

24 Q. Now, when you testified as to the Bone Spring
25 and Wolfcamp wells that one-mile laterals are more

1 efficient, you're not basing that on any kind of
2 estimated ultimate recovery, as an engineer would come
3 up with, correct?

4 MR. McMILLAN: Did I hear Mr. Padilla
5 correctly? I believe he stated -- did you say one-mile
6 or two-mile?

7 MR. PADILLA: One-mile.

8 THE WITNESS: I am not an engineer. I
9 just -- looking at the maps, they'll be 660 feet.
10 That's untapped drilling of one-mile wells. And so it
11 makes sense to me that there would be lower ultimate
12 recovery, but I'd defer that to our engineer.

13 Q. (BY MR. PADILLA) So you-all are looking at it
14 from a standpoint of a one-mile lateral versus a
15 two-mile lateral? That's the only way you reached your
16 conclusion. Is that fair to say?

17 A. For me. Our engineer could answer that
18 question better.

19 Q. Now, you said in your direct testimony that you
20 would strand acreage if you were not allowed to drill
21 two-mile laterals. Can you specifically tell me what
22 acreage would be stranded by drilling -- by not being
23 able to drill two-mile laterals?

24 A. Well, there would be the 330-foot setbacks
25 from -- on either side of Section 16 where we would have

1 to get 330 off the line to drill our well south, and
2 Pride would have to be 330 off the line to drill their
3 wells north.

4 Q. But aren't you just simply complying with the
5 rules when you set back 330 feet?

6 A. That's correct, except for the two-mile wells,
7 you would be able to get those reserves.

8 Q. And you don't have any -- well, from an
9 engineering standpoint, you're not trying to tell us
10 there wouldn't be any drainage, would you?

11 A. As I've stated earlier, I'm not an engineer.
12 But our engineer is here, and he can answer that
13 question better than me.

14 Q. You also testified that some of these lands
15 were in the Cotton Draw Unit?

16 A. Yes, sir.

17 Q. Isn't that a Delaware unit?

18 A. That's a Delaware participating area, but the
19 unit covers all depths.

20 Q. So the only production now is Delaware?

21 A. Yes, sir.

22 Q. Can you tell me why there is such a disparity
23 between a Wolfcamp -- the cost of drilling a Wolfcamp
24 well, as your proposal of 10,758,166 per well and
25 4,925,402?

1 A. Again, that would have to be deferred to our
2 engineer, who put those costs together.

3 Q. So you can't testify as to why there is that
4 disparity?

5 A. No, sir.

6 Q. In terms of overhead rates, you typically
7 charge 11,000 per well --

8 A. That's --

9 Q. -- for drilling a well?

10 A. Yes, sir.

11 Q. Do you know whether the OCD allows that type of
12 figure to be -- to be allowed in its orders?

13 A. No, sir. That's just a figure that I got from
14 our accounting group prior to sending out the JOA to
15 Pride.

16 MR. PADILLA: I'll pass the witness at this
17 time.

18 EXAMINER JONES: Mr. Lowe, questions for
19 the witness?

20

21 CROSS-EXAMINATION

22 BY EXAMINER LOWE:

23 Q. Yeah. I have a question. Good morning.

24 A. Good morning.

25 EXAMINER JONES: Tim Prout. Tim Prout is

1 his name.

2 Q. (BY EXAMINER LOWE) Tim Prout.

3 A. Yes.

4 Q. On your well for the -- for your Bone Spring,
5 the 234H --

6 A. Yes, sir.

7 Q. Actually, all your Bone Spring wells, you're
8 going for the same pool, correct?

9 A. Yes, sir.

10 Q. On your 234H well, you have a dashed -- G-7.
11 Is that just an error, or is that -- for referencing the
12 pool? You indicate the same pool code, but the pool
13 name is a little different.

14 A. Yes, sir. I believe it's just an error.

15 Q. A clerical error?

16 A. Yes, sir. I can tell our regulatory group to
17 get it fixed.

18 Q. And you said you're not downhole -- you're not
19 downhole commingling. Which pool are you not downhole
20 commingling?

21 A. Neither. We originally had filed for the
22 downhole commingling in the Bone Spring because we
23 thought that we might be crossing pool boundary lines,
24 and then I had our regulatory group call somebody at the
25 NMOCD to confirm it was all in the one pool. And that's

1 why we're no longer requesting that.

2 **Q. Okay.**

3 EXAMINER BROOKS: I would point out in
4 conclusion, before these wells will be produced, the
5 revised rules have been adopted by the Commission and
6 will become effective, which is to happen by July 15th,
7 and those rules will dispense the need for downhole
8 commingling. I'm assuming a motion for rehearing was
9 not filed late yesterday.

10 EXAMINER JONES: It was not -- it didn't
11 show up on Florene's computer.

12 **Q. (BY EXAMINER LOWE) Are you the one that submits**
13 **the C-102 for each well to get -- to be submitted, or**
14 **who --**

15 A. No, sir.

16 **Q. -- who determines the acreage indicated on the**
17 **C-102?**

18 A. Well, Linda Good, in our regulatory group,
19 generally is the one who submits them, but she'll talk
20 to me about which acreage will be dedicated to that
21 unit.

22 **Q. Okay. Okay. Yeah. I process C-102s -- well,**
23 **I process applications, and on some cases, I've got**
24 **C-102s that don't indicate the acreage. So for a while**
25 **there, I'm assuming it's based upon the pool. But, you**

1 know, being that it's not on my application, I have to
2 wait on the Applicant to determine what acreage to
3 determine -- that's just my own personal question.

4 Why is your surface location on the 234
5 located in Section 21?

6 A. I think that would be a better question for our
7 engineer. They pick the well locations.

8 Q. Okay. That's all the questions I've got.
9 Thank you.

10 EXAMINER JONES: Mr. Brooks?

11 CROSS-EXAMINATION

12 BY EXAMINER BROOKS:

13 Q. You have overriding royalties. You mentioned
14 the one. So are there any others?

15 A. Not that I'm aware of offhand. I don't believe
16 there are.

17 Q. I was going to say, you're the live witness.
18 You should know about them if there are any, right?

19 A. Yes, sir.

20 EXAMINER JONES: There is Exhibit 16 --
21 Exhibit A of Exhibit 16.

22 EXAMINER BROOKS: Oh, I see. I'm sorry.

23 THE WITNESS: Okay. Yes. In Section 21,
24 there are --

25 MR. McMILLAN: For clarification, Exhibit

1 16 is our Affidavit of Notice with that attached
2 Exhibit A showing everyone who received notice of the
3 hearing. The 16 is as to the Bone Spring cases. 17 is
4 for the Wolfbone cases, and it likewise has an
5 Exhibit A. It's the same names.

6 Q. (BY EXAMINER BROOKS) Okay. And did all of
7 these -- did all of these overrides receive actual
8 notice?

9 A. Yes.

10 Q. Okay. So the people that you don't have green
11 cards from, they're all offsets? None of them own
12 interest in the unit?

13 MR. McMILLAN: Okay. Now, to clarify, you
14 asked about actual notice --

15 EXAMINER BROOKS: Yes.

16 MR. McMILLAN: -- meaning we received a
17 green card back? And I'm sorry to interrupt the
18 testimony. It's just that Exhibits 16 and 17 are really
19 my work.

20 EXAMINER BROOKS: Well, certainly we're not
21 in court. You wouldn't be allowed to do that in court.

22 MR. McMILLAN: Right, thus my apology.

23 EXAMINER BROOKS: Here, we like to have the
24 testimony of the person who knows.

25 MR. McMILLAN: Right. Why waste time?

1 I'm the guy who sent out the notice
2 letters, and reflected in Exhibits 16 and 17 are the
3 green cards. And it looks like in 18 -- well, in 18 and
4 19 -- Exhibits 18 and 19 are the folks we had to publish
5 to because we did not receive a green card back, and
6 there weren't that many. But it looks like --

7 EXAMINER BROOKS: Well, I don't really care
8 about the offsets. I'm concerned about the overriding
9 royalties.

10 MR. McMILLAN: Of the overrides, it looks
11 like only Camp Colorado Investment, LP had to be
12 published.

13 EXAMINER BROOKS: Okay. So you published
14 notice as to Camp Colorado Investment, LP?

15 MR. McMILLAN: Correct.

16 EXAMINER BROOKS: And what efforts were
17 made to ascertain their correct address?

18 MR. McMILLAN: Everything at our disposal.
19 We don't quite, over at the law firm, have perhaps as
20 sophisticated technology as our clients sometimes do,
21 but we have Google. And this was -- we used the
22 Internet to identify address -- all we had ultimately
23 was his P.O. box.

24 EXAMINER BROOKS: You were not able to
25 discover any other address?

1 MR. McMILLAN: We did not.

2 EXAMINER BROOKS: Okay. Thank you.

3 EXAMINER JONES: To continue on that line,
4 on Exhibits 18 and 19, it does list Eugene Perry and
5 Dorothy Perry. Did you finally get green cards back?

6 MR. McMILLAN: We did not receive green
7 cards back from any that we published to.

8 CROSS-EXAMINATION

9 BY EXAMINER JONES:

10 Q. And then on Exhibit 19, Susan Croft, Camp
11 Colorado Investment, LP and Fidelity Exploration &
12 Production Company, those overrides that you were -- is
13 it correct to say they're from Section 21, the federal
14 acreage?

15 A. Yes, sir, except for the V-F Petroleum tract.
16 That's in the south half of 16.

17 RECROSS EXAMINATION

18 BY EXAMINER BROOKS:

19 Q. Now, I have another question. I'm sorry.

20 You said that 80 acres of this unit -- of
21 your proposed spacing units -- or part of them anyway
22 were within the Cotton Draw Unit?

23 A. Yes, sir, federal unit.

24 Q. Yeah. And is BLM on board with having that
25 portion of the unit dedicated to these -- to this

1 **proposal?**

2 A. We've talked -- we talked to them about it and
3 worked out something they're okay with as far as com
4 agreements go.

5 **Q. Now, BLM has a preference for acreage within**
6 **federal units to be operated by the unit operator,**
7 **right?**

8 A. Yes, sir.

9 **Q. And you are the unit operator?**

10 A. Yes, sir.

11 **Q. And where is that 80 acres located?**

12 A. It's on the southern end of 16. It's the --
13 it's the southeast quarter of the southwest quarter of
14 Section 16 and the southwest quarter of the southeast
15 quarter of Section 16.

16 **Q. Okay. So it's the two sections -- units --**
17 **Units N and O in Section 16?**

18 A. I believe so, yes.

19 **Q. No, wait. You said part of -- one in Section**
20 **17?**

21 A. No, sir. It's in 16 as far as these proposals
22 go. As part of the unit, it would be the southeast of
23 the southwest of 16 and the southwest of the southeast.

24 **Q. So that's Units N and O?**

25 A. Yes, sir.

1 Q. Thank you.

2 CONTINUED CROSS-EXAMINATION

3 BY EXAMINER JONES:

4 Q. So that's the Cotton Draw land.

5 So the V-F Petroleum interests, where are
6 they at?

7 A. They have an override in the south half of 16.

8 Q. Just generally in the south half?

9 A. Yes, sir.

10 Q. You listed that as one tract. You list three
11 tracts. One is the north half of 16. One's the south
12 half of 16, and one's the entire Section 21. Are
13 those -- are those identically owned, internally, tracts
14 including overrides?

15 A. Yes, sir.

16 Q. Okay. So that's V-F Petroleum.

17 Okay. Where does ConocoPhillips come in?

18 A. They're actually in the east half of the
19 northeast quarter of Section 16. So they're not part of
20 this deal, but they're an offset.

21 Q. Gotcha. Okay. So that's ConocoPhillips, which
22 is now Hilcorp; is that correct?

23 A. As far as I know, this is still owned by
24 ConocoPhillips. I've been talking pretty regularly with
25 them about it.

1 Q. Okay. Thank you.

2 And those overrides, they arose from
3 original lessees of tracts within that federal section?

4 A. Yes, sir.

5 Q. Okay. Okay. What about royalty burdens that
6 you have from the State? Is the north half of Section
7 16 all one state lease and the south half a different
8 state lease?

9 A. The south half is its own state lease. And
10 then the northwest quarter and the west half of the
11 northeast quarter is a state lease that's owned by
12 Pride, and then the east half of the northeast quarter
13 is a separate state lease that's owned by Conoco.

14 Q. Okay. And the federal lands in Section 21, are
15 they all one federal lease?

16 A. Yes, sir.

17 Q. Okay. Does Devon own title to the leases in
18 the lands that they own the working interest in? In
19 other words, is the lease in your name?

20 A. No, sir.

21 Q. It's in --

22 A. I mean, we purchased it, but the original
23 lessee is not Devon.

24 Q. The original. But you've got an assignment?

25 A. Yes, sir.

1 EXAMINER BROOKS: But you have record
2 title?

3 Q. (BY EXAMINER JONES) You have record title?

4 A. We have operating rights.

5 EXAMINER BROOKS: Oh. You have operating
6 rights. Somebody else has record title?

7 THE WITNESS: Yes, sir.

8 Q. (BY EXAMINER JONES) Okay. Are you working on
9 com agreements, these three different com agreements --
10 or actually six different com agreements, I guess?

11 A. We will be pending the outcome of this hearing.

12 Q. Okay. And the BLM requires -- would require
13 what -- which signatures on those? Working interests?
14 All working interests?

15 A. Operating rights and record title owners. Yes,
16 sir.

17 EXAMINER BROOKS: BLM also requires
18 overrides to sign, don't they?

19 THE WITNESS: No, sir.

20 EXAMINER BROOKS: They don't?

21 THE WITNESS: No, sir.

22 EXAMINER JONES: We hear different stories
23 on that.

24 EXAMINER BROOKS: Somebody testified that
25 they did, one of our --

1 THE WITNESS: Well, I haven't had them sign
2 them, and we're getting them back approved. So --

3 EXAMINER JONES: I think it depends on the
4 field office.

5 THE WITNESS: It changes day-to-day.

6 EXAMINER BROOKS: That may be the case.
7 But our people are going to have to be more alert on
8 this because under the new rules, there are special
9 rules that apply to com agreements if everybody is
10 ratified. Then we're going to need to -- actually,
11 we're going to put the monkey on the operators, but
12 we'll have to be sure that it's done. The operators --
13 anything we're in doubt about, we'll ask the operator.

14 EXAMINER JONES: We're going to depend on
15 you to remind us of that, Mr. Brooks.

16 EXAMINER BROOKS: I am going to. I'm going
17 to put it on the form. I'm going to change the
18 certificate, because that form wasn't adopted by the
19 Commission. I'm going to change the certificate on the
20 form to put the necessary information on it so we get a
21 certification from the operators, which hopefully
22 they'll read because they'll get in trouble if they
23 don't, not with us but somebody else.

24 Q. (BY EXAMINER JONES) To continue on Mr. Lowe's
25 question on acreage, these look like standard sections.

1 Has there been any resurveying? In other words, when
2 you do your Division order, if you get to be operator
3 here, will you be -- will these be all 320s --

4 A. Yes, sir.

5 Q. -- or just -- okay.

6 And you're applying for payback plus 200
7 percent risk penalty, and you're competing -- well,
8 we'll hear about your competing -- about Pride's
9 application and what risk penalty they're going to apply
10 for. But I guess if you're both applying for the same
11 risk penalty, you're both going to say it's very risky;
12 is that correct?

13 A. I guess so. Yes, sir (laughter).

14 EXAMINER BROOKS: We usually ask the
15 geologist that.

16 EXAMINER JONES: Yeah. I think that's
17 true. I wanted to prime the pump there, though.

18 EXAMINER BROOKS: That's a good idea.

19 Q. (BY EXAMINER JONES) And the verticals on the
20 lands, did you say they were 87 and a half? In other
21 words, 12-and-a-half percent. But they're more than
22 that because you've got overrides down in the federal
23 tract.

24 A. Correct.

25 Q. So you've got more burden down there?

1 A. Yes, sir. It's -- Tract 2 in the south half of
2 16 is 81 and a quarter, and I believe Section 21's at
3 84.

4 Q. Do you know about the burdens in the north half
5 of 16?

6 A. I believe it's just the state royalty.

7 Q. Okay. So what -- do you know what state leases
8 these are? Are they BB leases, new leases or -- they
9 must be old leases if it's around Paduca and on the
10 western edge of Cotton Draw. They should have been
11 leased years ago.

12 A. I don't have it handy. I know the Section 21
13 lease is a vintage lease and so is the south half of 16.
14 I believe the lease that Pride owns is more recent from
15 the 2000s.

16 Q. Okay. We'll get that later from someone.

17 A. Yeah.

18 Q. The APDs -- your proposal involves federal
19 lands, so we're talking -- we're talking -- we always
20 have the issue of delaying drilling due to APDs from the
21 BLM. Can you talk about that, as what you expect from
22 them?

23 A. I think the turnaround time has generally been
24 six to nine months. We've -- since we have so many on
25 file, we prioritize which ones that we want worked on

1 first, and this will prioritized -- is prioritized.

2 Q. You submitted it on March 1st?

3 A. Yes, sir.

4 Q. So that would be six different APDs you
5 submitted March 1st?

6 A. Well, just the Bone Spring APDs were submitted
7 March 1st. The Wolfcamp APDs have not been submitted.

8 Q. But are they responsive to you if you tell them
9 you've got a problem, and you need to get a well drilled
10 as soon as possible, the BLM in Carlsbad?

11 A. Well, I don't actually talk with them about
12 APDs. We have a regulatory department that would be
13 contacting them, but in my experience, they've been very
14 accommodating in trying to work with us as best they can
15 given their resources.

16 Q. Are you a surface land person also?

17 A. No, sir. We have a surface land staff in
18 Artesia that handles the on-sites and all those things.

19 Q. Have they told you anything about surface
20 issues that -- or cultural or biological issues that
21 might affect your APDs?

22 A. Not these, no, sir.

23 Q. So you're not aware of any?

24 A. I'm not aware of any.

25 Q. Have you talked to them?

1 A. I haven't asked about it, but I'm not aware of
2 any. That would come from the -- it looks like Anoop's
3 got an idea about it. But I feel like that's something
4 that would have been brought to my attention if there
5 was an issue with it.

6 Q. Okay. We've got -- the horizontal well rule
7 might go into effect, as Mr. Brooks said, sometime in
8 July, so your wells will be allowed to go within 100
9 feet. I believe the rule is going to say within 100
10 feet of the heel and the toe. That's a question for
11 your engineer, I guess.

12 As far as permitting goes, are you aware of
13 any requirements that will change your surface-hole
14 location -- or your pad location and surface-hole
15 location if that would happen? In other words, have you
16 talked to your people about drilling S-shaped?

17 A. Yeah. I mean, that's something that we do, so
18 I would suspect that that would be the plan. However,
19 again, our engineer would have to answer that question.

20 Q. Okay. And you talked about infrastructure out
21 here. You listed it. I know it's probably a question
22 for the engineers, and I can defer that.

23 A. We do have water takeaway and gas lines that
24 are run out there for other wells we operate in the
25 area.

1 Q. I see on the map that there is a lot of wells
2 right on top of you there. Are those all -- are those
3 all Delaware wells? I guess that's a question again for
4 the geologist or engineer. There's a swarm of wells.

5 A. These right here (indicating)?

6 Q. Yes.

7 A. These are Bone Spring wells, I believe. And
8 we've been pretty heavily developing the Bone Spring for
9 the last three or four years and the Cotton Draw, and
10 we're moving our way working from west to east.

11 Q. Is Devon's internal -- I know a few years ago
12 Devon was spending money offshore, and they kind of made
13 a decision to spend money offshore. If you get awarded
14 big drilling plans like this, is there any danger that
15 you would lose your competing drilling money to other
16 places?

17 A. We actually sold all of our offshore in 2010,
18 and so the Delaware and Oklahoma STACK play are Devon's
19 primary focus right now. So --

20 Q. Delaware Basin?

21 A. Delaware Basin, yes, sir.

22 So any -- if we were to lose money from it,
23 there would be -- something pretty catastrophic would
24 have to happen for us not to fund these wells.

25 Q. Okay. The overhead rate is a bit higher than

1 **what we've been seeing before. So you are not the**
2 **accounting person, I take it?**

3 A. No, sir. I did reach out to our accounting
4 group before we came and was trying to get a sense where
5 the numbers came from, and the answer that I got was
6 that it was within line of what we're receiving and what
7 we're paying to other operators in this area and
8 reflects pretty well our overhead.

9 Q. And I assume if we had a witness from that
10 group, they would say the same thing, but we don't know
11 that for sure. And I guess Pride would have the
12 opportunity to question that person on this. So I
13 really don't know how to proceed on that.

14 EXAMINER BROOKS: Are you going to offer a
15 witness to testify in support of --

16 MR. McMILLAN: Yes. We'll get testimony
17 from our engineering witness.

18 EXAMINER BROOKS: Given that it's much more
19 than we're summarily allowing --

20 MR. McMILLAN: Uh-huh.

21 EXAMINER BROOKS: -- that will probably be
22 necessary.

23 MR. McMILLAN: We anticipated that, so
24 we'll have some discussion of it later.

25 Q. **(BY EXAMINER JONES) Okay. We're also hearing**

1 that these competing drilling proposals are being -- are
2 being presented to other states like Colorado and maybe
3 others. If you were presenting it in another state,
4 would you -- would you be including economics with your
5 regulatory argument to the commissions?

6 A. I think we have some economic discussion that
7 our engineer will go over, and we'll tell you about it,
8 too.

9 Q. Okay. Thanks very much.

10 A. Thank you.

11 MR. McMILLAN: And I have nothing more for
12 this witness. I think he's had enough, frankly.

13 EXAMINER JONES: We've grilled him enough?

14 MR. McMILLAN: May the witness be excused?

15 EXAMINER JONES: The witness may be
16 excused.

17 Let's take a ten-minute break.

18 MR. McMILLAN: Great.

19 (Recess, 10:19 a.m. to 10:34 a.m.)

20 EXAMINER JONES: Let's go back on the
21 record and continue with Devon's presentation.

22 MR. McMILLAN: We call our next witness.

23 KIRK MALINOWSKY,

24 after having been previously sworn under oath, was
25 questioned and testified as follows:

1 DIRECT EXAMINATION

2 BY MR. McMILLAN:

3 Q. Good morning, sir. If you would please state
4 your full name for the record.

5 A. Kirk Malinowsky.

6 Q. You'll probably to want spell that for the
7 court reporter.

8 A. Okay. M-A-L-I-N-O-W-S-K-Y.

9 Q. Where do you reside, sir?

10 A. Oklahoma City.

11 Q. By whom are you employed?

12 A. Devon Energy.

13 Q. What is your current position?

14 A. Geologist.

15 Q. And have you testified previously before the
16 Division and had your credentials accepted and made a
17 matter record?

18 A. No.

19 Q. Then please summarize for the Examiners your
20 educational background.

21 A. Okay. I've got a Bachelor of Science degree
22 from the University of Kansas and a Master of Science in
23 Petroleum Management from University of Kansas.

24 Q. And please summarize your work history for the
25 Examiners.

1 A. I've been with Devon for four-and-a-half years.
2 Prior, I started -- I'm in the business in 1978. I've
3 worked for several companies. Among those were Tenneco,
4 Anadarko Petroleum, Seagull Energy/Ocean, which
5 eventually became Devon or --

6 **Q. Are you familiar with -- I'm sorry.**

7 A. No. That's all right.

8 **Q. Anything else to add?**

9 A. No. No.

10 **Q. Are you familiar with the applications filed in**
11 **these cases?**

12 A. Yes.

13 **Q. And are you familiar with the geology in the**
14 **subject area?**

15 A. Yes.

16 MR. McMILLAN: Mr. Examiner, I would tender
17 Mr. Malinowsky --

18 I hope I pronounced that correctly.

19 THE WITNESS: Yes, that's correct.

20 MR. McMILLAN: -- as an expert petroleum
21 geologist.

22 EXAMINER JONES: Objections?

23 MR. PADILLA: None.

24 EXAMINER JONES: Tell me what basins you've
25 worked in.

1 THE WITNESS: Well, I started out in
2 California in the San Joaquin Basin.

3 EXAMINER JONES: Oh, wow.

4 THE WITNESS: And then I came to Oklahoma
5 City in '81. I'm pretty intimate with the Anadarko
6 Basin, Texas Panhandle, western Oklahoma. And I did
7 some work in the Arkoma and then, of course, the shelf
8 area in northeastern Oklahoma. And then here -- and
9 then I was in new ventures for a while. Well, pretty
10 much all the western basins, I have a pretty good
11 working knowledge there. And then here with Devon here
12 over the last year, and I have been kind of working the
13 Delaware.

14 EXAMINER JONES: Okay. Thank you.

15 He's qualified as an expert in petroleum
16 geology.

17 MR. McMILLAN: Thank you.

18 Q. (BY MR. McMILLAN) Let's start like we did with
19 the land testimony, with the Bone Spring. Have you
20 prepared certain geologic exhibits in the Bone Spring
21 cases?

22 A. Yes.

23 Q. Could you please discuss with the Examiners an
24 overview of the Bone Spring in this area?

25 A. Yes.

1 Q. And in doing so, please refer to Exhibits 9, 10
2 and 11.

3 A. Yeah. The property -- the area of interest is
4 situated on a northwest-southeast-trending structural
5 nose. And as per the stratigraphic cross section
6 through the area on Exhibit 11, the target interval is a
7 fine-grain sandstone deposited in a deep-water marine
8 environment.

9 Q. So to review the exhibits, Exhibit 9 is a
10 structure map on the base of the 2nd Bone Spring Sand?

11 A. Yes.

12 Q. And is Exhibit 10 a base map showing your A to
13 A prime?

14 A. Yeah. It's the stratigraphic cross section.

15 Q. And is Exhibit 11 your stratigraphic cross
16 section, A to A prime, showing four wells in the area?

17 A. Yes.

18 Q. And to be clear, the landing interval for the
19 wells at issue today is shown in red --

20 A. Yes.

21 Q. -- on the lower right-hand side of that
22 exhibit?

23 A. Yes.

24 Q. Great.

25 Have you conducted a geologic investigation

1 to determine whether the tracts comprising the proposed
2 project area for Devon's proposed Bone Spring wells are
3 each prospective for production?

4 A. Yes.

5 Q. And that's your conclusion, that each of those
6 tracts is prospective?

7 A. Yes.

8 Q. Will each tract contribute approximately the
9 same amount of reserves to the well, in your opinion?

10 A. Yes.

11 Q. Have you developed an opinion as to whether 2nd
12 Bone Spring reserves in the area of Sections 16 and 21
13 are best developed with lay-down or stand-up units?

14 A. Stand-up units.

15 Q. And what's the basis for your opinion in this
16 regard?

17 A. Well, the main basis would be, if you look at
18 the development -- horizontal development, you know, for
19 the 2nd Bone in this area, it's predominantly
20 north-south.

21 Q. In your opinion, if the Division approves
22 Devon's Bone Spring applications, will Devon be able to
23 recover additional incremental reserves that would
24 otherwise go unproduced?

25 A. Yes.

1 Q. And would waste be avoided as a result?

2 A. Yes.

3 Q. By developing Sections 16 and 21 with stand-up
4 unit orientations, will the drilling of unnecessary
5 wells be avoided?

6 A. Yes.

7 Q. And will this result in improved project
8 economics to ensure that premature abandonment be
9 avoided?

10 A. Yes.

11 Q. Tell us, is there any faulting or other
12 discontinuity within the project area as concerns the
13 Bone Spring wells?

14 A. No.

15 Q. And can you just give us your general thoughts
16 as to geologic risk with respect to the Bone Spring
17 wells?

18 A. I feel the geologic risk is minimal due to the
19 deposition of the sands. It's pretty widespread. And
20 from a porosity, water-saturation and thickness
21 standpoint, it's pretty consistent throughout this area.

22 Q. Excellent.

23 And with respect to the Wolfcamp proposal,
24 let's take a look at Exhibits 13, 14 and 15. Is that
25 correct? No. 12, 13 and 14. Apologies. Is Exhibit 12

1 a structure map on the top of the Wolfcamp?

2 A. Yes, it is.

3 Q. Is Exhibit 13 an area base map showing your A
4 to A prime?

5 A. Yes.

6 Q. And is Exhibit 14 a stratigraphic cross
7 section, A to A prime, showing four neighboring wells?

8 A. Yes.

9 Q. And your landing interval for Devon's proposed
10 Wolfcamp wells is shown on the right-hand side in red
11 where it says "Landing Interval," correct?

12 A. Yes.

13 Q. Okay. With that as backdrop, have you
14 conducted a geologic investigation -- oh, no.

15 Please discuss with the Examiner an
16 overview of the Wolfcamp here.

17 A. Again, structurally, the proposed area, again,
18 is situated on a structural nose, northwest-southeast
19 trending. In regards to the nature of the interval, the
20 Wolfcamp is a -- is more shalier and siltier than what
21 we see in the 2nd Bone. Again, it was deposited in a
22 deep-water environment.

23 Q. Have you conducted a geologic investigation to
24 determine whether the tracts comprising the proposed
25 project area for Devon's Wolfcamp development are each

1 prospective for production?

2 A. Yes.

3 Q. Will each tract contribute approximately the
4 same amount of reserves to the well?

5 A. Yes.

6 Q. Have you developed an opinion as to whether
7 Wolfcamp reserves here are best developed with lay-down
8 or stand-ups units?

9 A. Stand-up units.

10 Q. And is it the same basis as previously, or do
11 you have anything more to add as to your opinion in this
12 regard?

13 A. It would be the same basis as the 2nd Bone.

14 Q. Great.

15 And, again, is it your opinion if the
16 Division approves Devon's applications, Devon will be
17 able to recover additional incremental reserves that
18 would otherwise go unproduced?

19 A. Yes.

20 Q. And would waste be avoided?

21 A. Yes.

22 Q. Would the drilling of unnecessary wells be
23 avoided?

24 A. Yes.

25 Q. Would this result in improved project

1 **economics?**

2 A. Yes.

3 **Q. Is there any faulting or other discontinuity**
4 **within the project area for these Wolfcamp wells?**

5 A. There is a possibility of a
6 northwest-southeast-trending fault. Currently, my work
7 with the Wolfcamp is mainly well control, and I'm
8 honoring it as such, and I'm presenting my maps
9 accordingly.

10 We do have a Wolfcamp team that is
11 dedicated to just mapping the Wolfcamp, and they are
12 utilizing seismic, which is still an ongoing analysis.
13 But initially they are identifying a deep-seated fault
14 in the Devonian, and they're currently projecting it up
15 into the Wolfcamp. And until I get a little more
16 comfortable with that analysis, I'm sticking by with
17 what I'm showing.

18 Now, if you look at my structure map on top
19 of the Wolfcamp, it kind of gives you a sense as to
20 maybe where that fault would be. On the southwest flank
21 of that structure where the contour is kind of bunching
22 up --

23 EXAMINER JONES: I'm sorry. Which exhibit?

24 THE WITNESS: It would be Exhibit -- --
25 Exhibit 12.

1 EXAMINER JONES: Thanks.

2 THE WITNESS: And, again, on that southwest
3 flank, the contouring is showing signs of bunching up.
4 And usually on a structure map, that could be an
5 indication of faulting. And so you would run a line
6 kind of parallel to that strike of those contour lines.
7 And it would probably trend, oh, through, you know, the
8 northeast section of 19, through Section 20, down
9 into -- it'll probably cut just a little bit into the
10 southeast-southeast of 21 and then onward, you know,
11 southeastward on that.

12 Q. (BY MR. McMILLAN) And so to be clear, is
13 there -- based on the information you have, is there
14 concern that this possible faulting could affect the
15 Bone Spring?

16 A. No, not at all.

17 Q. Okay. With respect to the Wolfcamp, are you
18 concerned at all that this possible faulting could
19 affect production in these wells?

20 A. At this point I do not believe it will have any
21 effect.

22 Q. And do you have -- do you wish to explain
23 further your basis there, or is that just based on the
24 information you have?

25 A. Yeah.

1 **Q. Go ahead.**

2 A. If you were to -- just like what I just
3 explained, if you were to take that line, the surface
4 locations would be pretty much north of the, you know,
5 potential fault, and, therefore, it would have no
6 bearing.

7 **Q. Let's see. In your opinion, as an expert**
8 **petroleum geologist, would the granting of Devon's**
9 **applications and the denial of Pride's be in the**
10 **interest of conservation, the prevention of waste and**
11 **the protection of correlative rights?**

12 A. Yes.

13 **Q. Were Exhibit 9 through 14 prepared by you or at**
14 **your direction?**

15 A. Yes.

16 MR. McMILLAN: I would at this time tender
17 Exhibits 9 through 14 for admission.

18 EXAMINER JONES: Any objection?

19 MR. PADILLA: None.

20 EXAMINER JONES: Exhibits 9 through 14 for
21 Devon are admitted.

22 (Devon Energy Production Co., L.P. Exhibit
23 Numbers 9 through 14 are offered and
24 admitted into evidence.)

25 MR. McMILLAN: Thank you, Mr. Examiner.

1 And that's all I have for this witness at
2 this time.

3 EXAMINER JONES: Mr. Padilla.

4 CROSS-EXAMINATION

5 BY MR. PADILLA:

6 Q. Mr. Malinowsky -- did I say that correctly?

7 A. It's okay. I struggle with it, too. No, it's
8 fine. Go ahead.

9 Q. I went through that with Padilla in the Navy,
10 when I was in the Navy. And one time I admitted to
11 Padilla, and the guy on the other side of the phone
12 said, "No. I went to the University of New Mexico. You
13 pronounce your name Padilla."

14 (Laughter.)

15 A. Yeah. I grew up in South America. I
16 understand the two Ls.

17 Q. So anyway, I always corrected it after that.

18 A. Yeah.

19 Q. Anyway, there is no difference in geology
20 between Section 16 and Section 21?

21 A. Not -- no.

22 Q. For both the Bone Spring and the Wolfcamp?

23 A. That's correct.

24 Q. And so the risk would be the same for drilling
25 in Sections 16 and 21?

1 A. Correct. Yeah.

2 Q. And this is the same kind of geology, in
3 Sections 16 and 21, that you would find for 2nd Bone
4 Spring wells in the area and the Wolfcamp as well?

5 A. Yes.

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

7 EXAMINER JONES: Mr. Lowe?

8 CROSS-EXAMINATION

9 BY EXAMINER LOWE:

10 Q. Good morning.

11 A. Good morning. How's it going?

12 Q. What are your total vertical depths for all
13 these wells, for the Bone -- or particularly the Bone
14 Spring and the Wolfcamp?

15 A. The TVD?

16 Q. Yes.

17 A. Let's see here.

18 Q. And where would it indicate it other than
19 Exhibit 4 that I saw so far?

20 A. Yeah. For the 2nd Bone, the TVD would be in
21 around 10,600. And then for the -- for the Wolfcamp,
22 the TVD of our target interval would be around 12,100.

23 Q. That's all the questions I've got. Thank you.

24 A. Thank you.

25 EXAMINER JONES: Mr. Brooks?

1 EXAMINER BROOKS: I have no questions for
2 the geologist.

3 EXAMINER JONES: They always leave it up to
4 me.

5 CROSS-EXAMINATION

6 BY EXAMINER JONES:

7 Q. The first exhibit that you show I think is
8 Number 10. And did you --

9 MR. McMILLAN: Number 9?

10 EXAMINER JONES: Number 9.

11 Q. (BY EXAMINER JONES) On that exhibit, what is
12 the yellow on that exhibit?

13 A. That's acreage that we have interest in.

14 Q. Okay. But not necessarily controlling
15 interest? Just interest?

16 A. It's just interest that Devon has.

17 Q. Okay. And the Cotton Draw -- can you explain
18 the Cotton Draw and why it -- why it came to be.
19 Obviously, I've heard it's a Delaware. Is it Brushy
20 Canyon Delaware?

21 A. Yeah. There is -- in this area, the Delaware
22 would be -- well -- okay. Here, I believe Delaware
23 production is Upper Delaware, Bell Canyon, Cherry Canyon
24 type. There may be one or two Brushy on that, but I
25 believe it's just Bell Canyon on that.

1 In regards to your question, I really don't
2 know how all this came together. I don't think I could,
3 you know, answer that.

4 Q. It's been around for a long time --

5 A. It has.

6 Q. -- as multiple zones, I've heard.

7 A. Yeah.

8 Q. And it's a big deer hunting area, I think
9 (laughter).

10 A. Yeah.

11 Q. I didn't know, you know -- I noticed this
12 one -- this Paduca area on the western edge of the
13 Cotton Draw has got a whole bunch of wells spotted all
14 over it. I didn't know if those were vertical wells and
15 Cherry wells or --

16 A. Okay. Are you referring to Exhibit 9 or --

17 Q. Actually -- actually, I printed off a map off
18 of the OCD Web site of production, and basically it's
19 that swarm of red right there.

20 A. Yeah. Those are pretty much Delaware wells --
21 vertical Delaware wells. Yeah.

22 Q. So it's kind of a hot spot for Delaware
23 production.

24 And so we're on the edge of it here or
25 right in the middle of it, but in your contour maps --

1 let's see. These were Upper -- the structure map on the
2 base of the 2nd Bone Spring. So they're pretty much --
3 you could use them for either formation, I guess.

4 The fault -- the fault that you're kind of
5 thinking might be out here but you don't know for sure
6 yet, is it -- how much throw would it be?

7 A. I do not know. I know at the Devonian level, I
8 believe it's on the order of 800 feet, plus or minus.
9 It's pretty significant down deep, but as we go
10 shallower, the throw may be decreasing somewhat. But I
11 don't know for sure on that.

12 Q. So it's Lower -- Lower Permian age fault?
13 It's no --

14 A. Devonian?

15 Q. But, I mean, you said it went up through the --

16 A. Yeah. It may --

17 Q. It juts up.

18 A. Yeah. Timingwise, it may be pre -- I need to
19 think about that.

20 Q. Pre --

21 A. It would be post -- let me see. Let me -- let
22 me think about this. Yeah. It'll probably be --
23 it's -- whatever is above the Wolfcamp, it'll be pre
24 that.

25 Q. Okay.

1 A. And so it doesn't go all the way up on that.
2 So Wolfcamp and everything was deposited, then we had
3 the faulting and then the --

4 **Q. Other stuff.**

5 A. -- lower end was deposited.

6 **Q. So there is an unconformity or something**
7 **between the Wolfcamp?**

8 A. Possibly, yeah.

9 **Q. Now, the zone you're going for in the Wolfcamp**
10 **here, are you calling it Wolfcamp A?**

11 A. Yes, we are. Yes. Internally, we have
12 different nomenclature. What we're using, it is the
13 Wolfcamp A. Yeah.

14 **Q. Yeah. We hear different things for the**
15 **Wolfcamp A.**

16 But it's not exactly -- your target is not
17 exactly on the boundary of the conformity, is it?

18 A. No. No, it's not. It's a gross interval, and
19 then we're just kind of in the middle or maybe lower
20 half of it.

21 **Q. Okay. So the geologic environment totally**
22 **changed between the Wolfcamp and the Bone Spring?**

23 A. Oh, yes. Yes. Yes.

24 **Q. And during the Wolfcamp, what was it like out**
25 **here?**

1 A. Well, it was deep water, and we have a
2 combination of depositional systems. I don't want to
3 get into the weeds, but it's just very high level. We
4 have a lot of carbonate fans being deposited, which are
5 targets. And then in addition, we have these silt-shale
6 intervals, which is kind of high in TOC, your organics,
7 and they're also a target. But it's all deep water.

8 **Q. Deep water -- deep water meaning off the shelf?**

9 A. Yes. Yeah. You come off the shelf, down the
10 slope and kind of where the depocenter is.

11 **Q. So it's self-sourcing?**

12 A. I believe the Wolfcamp is being considered,
13 yes, self-sourcing. I'm not sure about the 2nd Bone. I
14 believe it's been migrated in.

15 **Q. It just seems like the Wolfcamp is the**
16 **extremely hot play out here.**

17 A. Especially down south, of course, in Texas.
18 It's moving up. In the Rattlesnake area, just southeast
19 of our Cotton Draw, there is a lot of -- there is
20 Wolfcamp activity, and it's kind of spreading up into
21 this area right here. And we're -- like I said, we have
22 a technical staff that's in the process of appraising it
23 to see where we go.

24 **Q. Okay. Now, will you watch these wells? Would**
25 **you be the person watching them, I mean as far as**

1 **geologically whether they're in zone or not?**

2 A. No. We have staff. We have a group that
3 will -- they're totally focused on. But yes, I'll be in
4 the background kind of keeping an eye on things on that.

5 Q. Because your structure map kind of shows that
6 the well -- you're going to almost be drilling through a
7 rise and then down.

8 A. Yes. Uh-huh. Possibly, yeah. Yeah. Yeah.

9 Q. I have no idea how you would stay on knowing
10 where you're at.

11 A. Well, it's downhole data, gamma ray especially.
12 You have to get intimate with that response, and then
13 you live and die with it. And if you lose that
14 response, then you've got a decision to make, you know.
15 Do I go up or down, or should I keep going forward?

16 Q. And on the completion, do you get involved with
17 that as far as figuring out where the major production
18 is coming from?

19 A. Yeah, and identifying the intervals to
20 perforate, from that -- just from that standpoint.
21 Yeah.

22 Q. Okay. Thank you very much.

23 A. All right. Thank you.

24 EXAMINER JONES: Any more questions for
25 this witness?

1 EXAMINER LOWE: No.

2 EXAMINER JONES: Good.

3 MR. McMILLAN: May the witness be excused?

4 EXAMINER JONES: Yes, sir.

5 MR. McMILLAN: We would at this time call
6 our third and final witness.

7 ANOOP K. SHARMA,
8 after having been previously sworn under oath, was
9 questioned and testified as follows:

10 DIRECT EXAMINATION

11 BY MR. McMILLAN:

12 Q. Good morning, sir. Is it still the morning?

13 Oh, yes. Good.

14 Could you please state your full name for
15 the record?

16 A. My name is Anoop Kumar Sharma. It's a hard
17 name. So it's spelled A-N-O-O-P, K-U-M-A-R,
18 S-H-A-R-M-A.

19 Q. And where do you reside?

20 A. Oklahoma City.

21 Q. By whom are you employed?

22 A. Devon Energy.

23 Q. What is your current position?

24 A. Reservoir engineer.

25 Q. Have you previously testified before the

1 **Division and had your credentials as an expert accepted**
2 **and made a matter of record?**

3 A. No, sir.

4 **Q. Let's go through your -- first your educational**
5 **history.**

6 A. I did a Bachelor's in Chemical Engineering from
7 the National Institute of Technology in India and a
8 Master's in Petroleum from the University of Tulsa, as
9 far as education is concerned.

10 **Q. And summarize, please, your work experience.**

11 A. I worked for five years with Schlumberger,
12 mostly in the Delaware Basin. I started in Grand
13 Junction, in the Piceance Basin, worked a little bit in
14 the Bakken and then moved to Midland and worked there
15 three years. And after that, I moved to Devon Energy in
16 2014, and I've been working there for the last four
17 years. Earlier, I worked as a completions engineer for
18 two years, and now I work as a reservoir engineer.

19 **Q. Great.**

20 **Are you familiar with the applications**
21 **filed in these cases?**

22 A. Yes, sir.

23 MR. McMILLAN: I would tender Mr. Sharma as
24 an expert petroleum engineer.

25 EXAMINER JONES: Any objections?

1 MR. PADILLA: No objection.

2 EXAMINER JONES: With Schlumberger, were
3 you the cement and completions, or were you a logging
4 person?

5 THE WITNESS: I started -- I mean, I was a
6 field engineer for one-and-a-half years, but after that,
7 I worked almost as a -- they have a group called data
8 and consulting services, so I was working to perforate
9 the landing location -- I mean choose the landing
10 location, do some frac modeling, reservoir modeling.
11 Mostly my main time was Endeavor Energy, so I was
12 working for Mr. Autry -- Autry Stephens.

13 EXAMINER JONES: So qualified.

14 Q. (BY MR. McMILLAN) Have you, sir, conducted an
15 engineering investigation to determine the drilling of
16 Devon's proposed well is an efficient way to develop the
17 and Bone Spring and Wolfcamp reserves here?

18 A. Yes, sir.

19 Q. And is your investigation kind of set forth in
20 Exhibit 15?

21 A. Yes, sir.

22 Q. Why don't you go ahead and kind of walk us
23 through Exhibit 15?

24 A. Okay. So I just made a high level work on this
25 and trying to keep it tight, so one, two, three, four,

1 five slides.

2 The first slide just talks about the
3 summary. So in Devon Energy's development proposal, we
4 maximize the economic recovery of the hydrocarbon by
5 employing longer laterals, and by this way, we're going
6 to be eliminating lost recovery and acreage dedicated to
7 these aligned setbacks. So that's like an additional 61
8 acres of reserves in each horizon, so Bone Spring, 61
9 acres, and Wolfcamp, 61 acres.

10 Our plan will also be increasing the
11 economic well life of longer laterals. So longer
12 lateral means if -- you have your fixed costs and your
13 operating costs. The fixed costs will remain the same
14 whether it's a one-mile lateral or a two-mile lateral.
15 Typically, longer laterals have longer cash flows
16 because the fixed costs remain lower. That means
17 additional royalties for the State as well.

18 It'll also reduce the surface footprint,
19 and I'll just explain how. I just did like a simple
20 cartoon to make sense of it. The Devon Energy plan
21 requires less number of pads for a longer lateral
22 development compared to Pride Energy's plan, and also
23 Devon's local expertise, which both my colleagues have
24 alluded to previously in their testimony, which will
25 help in improving the optimal development of the

1 resource.

2 We have hundreds of wells in the 2nd Bone.
3 We will be drilling the 2nd Bone in the vicinity,
4 Wolfcamp drilling in the vicinity, and we are
5 extensively drilling the Rattlesnake area right now.

6 We have development of one-mile laterals.
7 So in our -- in my opinion, it reduces the economic
8 efficiency and increases waste and lost hydrocarbon
9 recovery and also increases the surface footprint.

10 On slide three, we just have a comparison
11 of two different plans of the Pride Energy plan and
12 Devon Energy plan here. It's a simple cartoon. I
13 didn't put exactly where the pad locations are, but you
14 can see that if we wanted to develop the two-mile -- oh,
15 by the way, the red color reflects Pride Energy, and
16 then the blue color represents Devon drilling wells, and
17 then the pads are represented by the black-shaded area.
18 It's just a cartoon.

19 And over here, the green represents
20 whatever Devon has in -- what do you call -- interest.
21 So if we drill, let's say, according to Pride's plan,
22 from, let's say, the north, you have -- we have to drill
23 from our pads from the south. So we have to double the
24 facility that will be well pads. If you drill one-mile
25 laterals, we'll also incur -- 330 on each side. That'll

1 mean a 660 setback that amounts to 61 acres of waste as
2 far as hydrocarbons is concerned.

3 On the other hand, in the Devon plan, you
4 can see that we don't have that waste if we drill
5 through it. We'll have the less surface disturbance if
6 we drill from one pad. And I just want to point out
7 that although this particular side just shows the case
8 we are currently talking about, but our pad locations --
9 we have a larger pad, which we have on-sited before, and
10 our plan is to drill, on the south side, two-mile, too.
11 So in reality, we are further reducing the surface, in
12 fact, by drilling two-mile laterals from the same --
13 those pads, Marwari pads, towards down south, two miles.

14 And, again, Devon has a high working
15 interest in the two-mile unit.

16 On the next slide, moving on, just to show
17 that you are comparing between short lateral and long
18 lateral. I just gave an example of the 2nd Bone Spring
19 because that has been extensively drilled in the area,
20 so just to give an example of how the EUR does
21 between -- comparing between a one-mile and a
22 one-and-a-half or two-mile, where we actually are able
23 to grab that 660 feet, that additional acreage, the
24 setback acreage.

25 We have a map location on the left side of

1 this slide. Anything which is colored in yellow is
2 Devon-owned and operated -- or operated. Most of the
3 wells drilled in the yellow are drilled by us and
4 currently operated by us.

5 So we have drilled several sizes of
6 laterals here. We started with the single-mile laterals
7 on the top of the northwest corner, and then we realized
8 that longer lateral, more economically and reserveswise,
9 makes more sense. We started drilling longer laterals,
10 you see, in the middle of the acreage, and we're going
11 towards the east. Over here, again, the red wells are
12 shown here as those three Bone Spring well plans.

13 So a single lateral -- a one-mile lateral,
14 which roughly is 4,600 feet if you keep that 330-feet
15 setback, the EUR is running around 340 mbo, somewhere
16 around there. Plenty of data points in the area. And
17 for the comparison purpose, we didn't have any two-mile
18 laterals recently drilled. We have drilled recently a
19 two-mile lateral, by the way. We ID'd [sic] them a
20 month ago, and the IP of one of those wells -- I just
21 wrote it down. One of those wells had IP'd at 6,689
22 barrels of oil equivalent per day, so a pretty good well
23 as far as productivity is concerned. And those wells
24 sit right in the middle of the acreage. If you see, we
25 have two-mile laterals in between on the map.

1 For the comparison purpose, I just did
2 one-mile and one-and-a-half mile because we have -- the
3 one-and-a-half miles. So if you see an EUR for a
4 one-and-a-half mile, same -- same B factor, assuming
5 it's the same reservoir. So you end up having somewhere
6 around 580 mbo EUR for one-and-a-half-mile laterals. So
7 if you notice that the EUR increases for one-and-a-half
8 miles in some areas around 1.7 times, and if you
9 roughly -- I mean, it roughly translates one-to-one EUR
10 to lateral length, because in a two-mile lateral, you
11 can go 7,600 -- I'm sorry -- one-and-a-half mile. My
12 mistake. And then for one-mile laterals, you can go
13 .67. So it's 1 -- around 1.7-ish increase if you go
14 from one-mile to one-and-a-half mile because it grabs
15 that 660 feet in between.

16 So those are the two points I wanted to
17 mention there, that it sweeps additional acreage of 660
18 lease setback, and it ends up being one-to-one EURs to
19 lateral length ratio.

20 So that just proves the point that
21 having -- drilling a longer lateral can actually help in
22 grabbing additional reserves.

23 Slide number five, just to prove the point
24 that having a longer lateral will also yield longer
25 lateral life -- I mean longer well life. Over here it's

1 showing the cash flow for Wolfcamp horizon in those bar
2 charts and the cash flow of the Wolfcamp, 2nd Bone. So
3 over here you can see that. On year 29, we have to plug
4 the one-mile lateral for the Wolfcamp. But the two-mile
5 lateral will keep on producing until the year 37.

6 And same goes for the 2nd Bone horizon.
7 The one-mile lateral will die at year 23, and the
8 two-mile lateral will actually go quite further.

9 So that -- that means that seven-plus
10 years -- seven or more years of additional revenue
11 opportunity for the State, and Devon -- I mean, if we
12 develop the two-mile lateral plan, both fee royalty, as
13 well as severance taxes.

14 So that's all I have for Exhibit 15.

15 **Q. Excellent.**

16 Do you recall -- well, you were here during
17 the testimony of your colleagues, correct?

18 A. Yes, sir.

19 **Q. Do you recall some questions being kind of**
20 **punted in your direction?**

21 A. Yes, sir.

22 **Q. Let me go ahead and pose some of those to you**
23 **now, see if you have additional information or can help**
24 **us out.**

25 There were questions about the status of

1 the Bone Spring APDs with respect to the BLM and also
2 with respect to whether an on-site has been done by the
3 BLM. Do you have additional information that might be
4 helpful here?

5 A. Yes. So as I said, the pads which we are
6 planning are not only for these three wells -- six
7 wells -- I'm sorry -- we're also going to be drilling
8 down south. So basically we don't want to drill four
9 sections worth of wells from those pads. So what we
10 did, we went ahead and on-sited a large pad. I believe
11 it's 600-by-600 feet, pads, and we just want to just
12 drill in a line, just bring the spudder rig and just
13 drill the most efficient way we can. So those -- those
14 are -- those pads are on-sited.

15 The 2nd Bone Spring, if I'm correct,
16 they've already gone to the BLM. We are waiting for the
17 approval, those wells. As far as Wolfcamp is concerned,
18 I'm not sure if we have submitted or not. But for 2nd
19 Bone, we are waiting for the approval.

20 Q. Okay. So for clarification, on-site is
21 completed?

22 A. Yes.

23 Q. As such, that suggests to me -- and please
24 confirm -- that BLM doesn't have any concern with
25 archeology or biology, any of the things raised by

1 **Examiner Jones?**

2 A. No, sir. In fact, that is one of the reasons
3 one of the pads was actually moved. So you can see that
4 one pad is actually on the south side. So I think -- I
5 don't remember that item number. Three pads are
6 situated in -- if I had a map --

7 EXAMINER JONES: Section 28.

8 THE WITNESS: Section 21. Three pads are
9 situated in Section 21. One pad is situated in Section
10 28. Yes. So that's because of surface issues.

11 Q. **(BY MR. McMILLAN) Do you recall the land**
12 **witness kind punting the question about Devon's**
13 **infrastructure? You've discussed pad orientation. Do**
14 **you have anything to add about Devon's infrastructure**
15 **out there?**

16 A. Yeah. So as far as our infrastructure is
17 concerned, we have extensive water -- water
18 infrastructure there. We've been building there for a
19 long time. Gas infrastructure, we have. Compressing,
20 they're losing there -- compressed -- gas. And right
21 now the major problem is finding a market so that we get
22 the best price for oil and gas, especially right now
23 with the infrastructure bottleneck. But we have -- we
24 already have contracts in place, and these wells should
25 not be affected by any issues regarding the water or gas

1 or oil, kind of, bottleneck.

2 Q. Do you recall a question from one of the
3 Examiners concerning why the surface location for the
4 234H well is in Section 21?

5 A. Yes. That's the answer to the same point,
6 because there was -- it was not an archeological site,
7 but I think those Delaware wells -- those vertical
8 Delaware wells, they are producing all across that
9 acreage, and I think that's why we had to move it from
10 north to south.

11 Q. Thank you. That's helpful.

12 Now, there was some cross-examination and
13 some questions by the Examiners as to the proposed well
14 costs here, a suggestion that maybe they're a bit high.
15 Would you like to address those questions and concerns?

16 A. Yes. I think the question was why one has
17 more -- one was more --

18 Q. Let's start -- sure. Sure. And for the
19 record, to be clear, what was the question?

20 A. I think -- I'm not sure. I think the
21 question -- what I remember is why the Wolfcamp is way
22 more expensive than the 2nd Bone.

23 Q. Let's address that, please.

24 A. I'm not an accountant. I'm not sure of, like,
25 those numbers, but I can tell you that the 2nd Bone --

1 again, we've been drilling for so long. We know exactly
2 how to drill, and costs are super low. As far as the
3 depth is concerned, 2nd Bone is our shallower depth than
4 the Wolfcamp pressurewise, less pressure than the
5 Wolfcamp. And so when we drill the 2nd Bone, we just
6 drill 5-1/2-inch casing, perf all the way through, while
7 if we're drilling a 2nd Wolfcamp well, we have to set a
8 casing on the 3rd Bone and then come back and drill the
9 lateral. So that -- because of that, there is
10 additional drilling costs.

11 Now, as far as completion costs go -- the
12 majority of the costs these days are not the drilling
13 costs but the completion costs. And -- and we know --
14 I mean, with our experience in the 2nd Bone, we know
15 that 1,500 pounds per foot, which we do [sic] in pumping
16 and completion, is pretty adequate in the 2nd Bone. So,
17 in fact, we recently ID'd the Boundary Raider well with
18 1,500 pounds per foot, a two-mile -- a two-mile lateral
19 north of the Cotton Draw, and that actually is the best
20 well ID'd -- IP'd in the Delaware Basin, period. It
21 IP'd at 12,808 barrels of oil equivalent per day. So we
22 are pretty confident on our, like, well design and
23 completions is concern.

24 And, again, it goes back to we are going to
25 be sharing our facility. As far as pads are concerned,

1 I mean, those pads are sharing the cost with not just
2 these three or six wells but other wells which are going
3 down south. It's also -- we'll zipper them together
4 because so many wells are just there, so we're just
5 going to be zippering them together, padding them
6 together. Share facility also. We don't have to build
7 a separate facility to handle these wells.

8 So the 2nd Bone, very confident on well
9 design and cost.

10 As far as the Wolfcamp is concerned, we
11 have just drilled three wells in this particular area,
12 but we have seen EOG and other operators drilling east
13 of us. And we are also drilling east of this acreage.
14 And they're using bigger frac jobs, and that's reflected
15 in the completion side of the costs. So not only is the
16 frac size going to be bigger, but the pressure is going
17 to be higher. So it's higher horsepower, more sand on
18 the completion side. And on the drilling side, we're
19 going to have an additional string -- casing string for
20 well-control issues. I think that's why those costs
21 differ so much.

22 **Q. And you discussed -- well, first of all, you**
23 **were at one time a completion engineer, correct?**

24 **A. Yes, sir.**

25 **Q. And you discussed a little bit about how these**

1 wells are intended to be completed. Can you give us
2 perhaps a better sense of Devon's completion plans here
3 for the Bone Spring and the Wolfcamp wells?

4 A. So Bone Spring, it's pretty standard. We're
5 going to be doing a 1,500-pounds-per-foot frac job. And
6 as I said, one section -- first, we will drill two-mile
7 laterals. We recently IP'd the Cotton Draw 507 well at
8 6,689 barrels of oil equivalent per day. And, again, in
9 the north, we drilled not only the top -- I think top
10 three wells, as well as Boundary Raider. So they all
11 came in around 12,000 barrels of oil equivalent per day.
12 So we are up -- on the completion side of 1,500 pounds
13 per foot. Because, again, this is not just -- we're not
14 drilling one well, one well. We -- we have wells on the
15 south side, the Van Dooda wells. The Bone Spring wells,
16 which we already put the APDs with the Marwari wells,
17 which is going up north. So you have two wells, two
18 wells, two wells on Bone Spring. And Wolfcamp, also we
19 have, some wells going north, some wells going south.
20 So -- so we're going to be zippering them together as
21 well.

22 As far as the Wolfcamp is concerned, it's a
23 moving target, still a new play in this area compared to
24 what has been done in the Rattlesnake or east of the
25 Cotton Draw. And there, they're pumping more sand,

1 so -- so I don't know what has been quoted in the well
2 proposal, but that's a moving target. So I don't know
3 several years from now what we have learned. But as of
4 right now, the Wolfcamp seems like it needs more sand at
5 a higher rate compared to the 2nd Bone because of low
6 permeability.

7 **Q. Great. Thank you for that.**

8 **There were also some questions and concerns**
9 **raised about the overhead costs here. Now, while you're**
10 **not an accountant, do you have anything to add to that**
11 **discussion about Devon's overhead costs?**

12 A. Yeah. So I'm not sure how that cost is -- but
13 what I think is -- the reason -- so at Devon, we believe
14 in, like, technology, and one of the major cost pieces,
15 I think, when we drill the well is the WellCon center,
16 which I think Kirk alluded to during his testimony.
17 What we do is that we monitor well -- what do you call
18 it when you drill from the zone? I cannot --

19 MR. MALINOWSKY: Oh. Geosteering?

20 THE WITNESS: Geosteering. Thank you.

21 So when we geosteer, we geosteer live in
22 data coming in in our WellCon center. So there are
23 engineers 24/7 there and geologists 24/7 there
24 monitoring the data, making sure the well is within the
25 zone. And we know that this whole area is pretty

1 heterogeneous when it comes to the Wolfcamp and other
2 different horizons. So that can be one of the reasons.

3 And the same goes even with the frac. We
4 monitor the pressure, rate, whatnot, live in the
5 WellCon -- in the WellCon center and try to mitigate any
6 problems that we have in real time.

7 But we believe that -- we also make sure
8 that our well is in zone and gives the best opportunity
9 to produce the well, and that reflects in the production
10 results.

11 Q. (BY MR. McMILLAN) And let's see. Your analysis
12 in Exhibit 15 assumes those 330-foot setbacks, correct?

13 A. Yes, sir.

14 Q. And that's -- those are -- that's under the
15 current -- the current rules, correct?

16 A. Yes, sir.

17 Q. And the -- there are -- Lord willing, there
18 will be new rules coming down at some point in the
19 near-ish future, correct?

20 A. Right.

21 Q. But it is your understanding that those rules
22 have yet to actually be implemented?

23 A. Yeah. I don't know what will happen.

24 Q. So -- and do you also understand, as you sit
25 here now, that the new rules will allow for,

1 **essentially, 100-foot setbacks?**

2 A. (Indicating.)

3 Q. **Would your analysis -- your analysis, I have to**
4 **assume, would change using the 100-foot setbacks,**
5 **correct?**

6 A. Yes.

7 Q. **But would the same concern be present there,**
8 **that there would be a lack of drainage in the setback**
9 **acreage?**

10 A. I would say less effect. I mean, just
11 one-third, just like -- just by thinking about it. So
12 maybe instead of 61, it'll be 20. But then the well is
13 still going to be economic. The lateral longer will
14 still be economic for longer time compared to a single
15 mile. And if that's not the case, we would not be
16 drilling two-mile laterals right now left and right
17 throughout the Basin. So just economics makes it
18 more -- as a better option.

19 And as I said, as far as the surface is
20 concerned, we will have still -- still have to have
21 additional pads, an additional facility and, again,
22 access to market, too, at a good price for oil and gas.

23 Q. **Great.**

24 All of this having been said, in your
25 **opinion as an expert petroleum geologist [sic], will the**

1 granting of Devon's application and the denial of
2 Pride's application be in the best interest of
3 conservation, the prevention of waste and the protection
4 of correlative rights?

5 A. Engineer, but yes.

6 Q. Ah. Good catch.

7 So in your opinion as an expert petroleum
8 engineer --

9 A. Yes.

10 Q. -- is the granting of Devon's application and
11 the denial of Pride's be in the interest of
12 conservation, the prevention of waste and the protection
13 of correlative rights?

14 A. Yes, sir.

15 Q. Excellent.

16 I apologize for the error.

17 Was Exhibit 15 prepared by you or under
18 your direction?

19 A. Yes, sir, prepared by me.

20 MR. McMILLAN: At this time I would move
21 the admission of Exhibit 15, Mr. Examiner.

22 EXAMINER JONES: Any objection?

23 MR. PADILLA: None.

24 EXAMINER JONES: Exhibit 15 is admitted.

25 (Devon Energy Production Co., L.P. Exhibit

1 Number 15 is offered and admitted into
2 evidence.)

3 MR. McMILLAN: Pass the witness.

4 EXAMINER JONES: Mr. Padilla.

5 CROSS-EXAMINATION

6 BY MR. PADILLA:

7 Q. Mr. Sharma, if the new rules are implemented
8 and say they become effective in July, your 61-acre
9 calculation would be inaccurate, correct?

10 A. If that's -- yes.

11 Q. How many two-mile laterals have you drilled in
12 the immediate area of this well --

13 A. So we --

14 Q. -- of your proposed well?

15 A. Our proposed well, we just drilled four wells
16 just now.

17 Q. How far away?

18 A. They're in Sections 7 and 18, so one -- two
19 miles west.

20 Q. And how long have they been producing?

21 A. They've been producing, I think, just for a
22 month or two for now.

23 Q. So you can't make a comparison yet of EURs
24 between a one-mile lateral and a two-mile lateral? Is
25 that fair to say?

1 A. I mean, it depends. Like, if you have an
2 already declining -- a well declining, I would say we
3 can. But if the well is still not declining because
4 it's going up because you're opening the choke or
5 something like that, I would agree with you.

6 **Q. You mentioned that EOG was drilling wells east**
7 **of the acreage. How far away are those EOG wells?**

8 A. I can't see here. I think it would be -- I
9 cannot say that. I don't know. I think maybe five to
10 nine months. I don't have a map right now to check
11 that. But Rattlesnake, they are drilling heavily, and
12 that's seven to nine miles away.

13 **Q. Your geologist didn't make a geologic**
14 **correlation to the Rattlesnake production, correct?**

15 A. I'm sorry?

16 **Q. He didn't make a correlation in terms of**
17 **geology from the present location to the Rattlesnake**
18 **wells?**

19 A. I'm not sure. No, I guess.

20 **Q. When you talk about markets, you're not --**
21 **you're not in that field, correct?**

22 A. Agree.

23 **Q. You're only speculating as to whether the**
24 **market's going to be affected or if you could have a**
25 **better market in the future. But right now, you**

1 yourself do not have any intelligence, if you want to
2 call it that, where the markets are going in terms of
3 oil production --

4 A. I -- well --

5 Q. -- sales of oil?

6 A. Well, I'm saying what we have in the pipeline
7 and what we have -- so I think -- well, if you say
8 market, no one knows where the market is going to be.
9 So I agree on that point. But when I say market, I'm
10 saying that with our next two-, three-year production,
11 at Devon Energy in the Cotton Draw area, is guaranteed
12 to be taken away, both oil, gas and water, all three.
13 That's what I'm saying. So I'm aware of that -- I'm not
14 an expert. You're right. But I'm aware of that fact,
15 that we have takeaway capacity for oil and gas and
16 water.

17 Q. So when do you plan to drill these wells?

18 A. I think they're on the drilling schedule right
19 now, so if I'm correct, the 2nd Bone should be drilled
20 this year sometime.

21 Q. When do you expect --

22 A. October, I guess.

23 Q. Did you get an APD approved?

24 A. So the APD is already, as I said, for the 2nd
25 Bone, submitted, and we're just waiting on approval for

1 2nd Bone.

2 Q. Do you know how long delays are running from
3 the BLM for APDs -- for approval of APDs?

4 A. So I know that we have -- how we are tackling
5 that situation is when we actually apply for a larger
6 pad, getting the EA and clearing the surface and then
7 adding wells if necessary. And I know that -- with the
8 recent one, in my memory, which we did recently in the
9 Lusitano section, where we are drilling the two Wolfcamp
10 wells, I think we got back our APDs after the EA and
11 everything was done, if I'm correct, four to six months.

12 Q. When did you change your original footprint to
13 the single larger pad?

14 A. I'm sorry?

15 Q. When did you change your original drilling
16 plans as proposed to the present plan of using a
17 larger --

18 A. We always had that plan. The idea was to go --
19 our acreage goes to one-and-a-half mile last year, for
20 example. But then, in our sense, in what we think is
21 that longer lateral, is going from one-and-a-half to
22 two-mile is even better. So that's why we're proposing
23 two-mile lateral wells. So the plan was 2017, I would
24 say. That's when the plans started rolling, if that's
25 the question. I'm sorry if I'm not getting it.

1 Q. So if I understand your answer, you always had
2 the drilling plan to use a larger drill pad?

3 A. Yes. Yes, if that's the question.

4 Q. Do you know whether the BLM has an online
5 center for determining where APDs stand?

6 A. No. I haven't seen that.

7 Q. So as far as you know, no one in your group
8 here today checked to see whether or not -- where you
9 are in line with the approval?

10 A. I'm not sure about the others, but I don't
11 know.

12 Q. So when you say four to six months, you're just
13 simply going from --

14 A. Whatever was the last one we did.

15 Q. When do you expect to file APDs for the
16 Wolfcamp?

17 A. I have no idea. I don't know if -- it's out of
18 my -- I don't handle the day-to-day APDs.

19 MR. McMILLAN: And that question, I
20 believe, was asked of the land witness and he answered
21 it.

22 Q. (BY MR. PADILLA) Mr. Sharma, some of that was
23 diverted to you, as far as I remember. Maybe I'm
24 mistaken, but correct me if I'm mistaken. But I think
25 the testimony was that AFEs for the Wolfcamp had not

1 **been submitted yet.**

2 A. I know we have Bone Spring submitted. That,
3 for sure, I know, because I was part of the team with
4 that. Wolfcamp, I don't remember if they have submitted
5 or not.

6 **Q. I don't have any further questions.**

7 EXAMINER JONES: Mr. Lowe?

8 CROSS-EXAMINATION

9 BY EXAMINER LOWE:

10 **Q. Good morning.**

11 A. Hello, sir.

12 **Q. On Exhibit 15, page 3 --**

13 A. Yes, sir.

14 **Q. -- apparently right now -- well, I guess your**
15 **intentions are to drill from the south to the north.**

16 **You have your well pads on the south side?**

17 A. For this development, yes.

18 **Q. Yes.**

19 **Why that direction, not from the**
20 **north-south?**

21 A. Because we have two more miles down south. So
22 imagine that we have like two more sections down south,
23 and so we're going to be using those pads to drill from
24 north to south.

25 **Q. Right now -- it's kind of existing right now?**

1 A. Yeah. Like, we got clearance for a larger
2 surface pad. So the idea is to drill up north and drill
3 down south from the same pad and reduce the surface
4 disturbances.

5 Q. So are there any road accesses right now on the
6 north side of that section?

7 A. I'm sorry, sir?

8 Q. Is there any road access right now on the north
9 side of that area, on the north end of the proposed
10 wells?

11 A. There should be, yes. I mean, that's how we
12 got on-sited.

13 Q. On that same -- that same map, are you
14 indicating there are 61 acres of waste according to
15 Pride's plan on there, acreage waste?

16 A. On the south side, we -- we own one acreage --
17 I mean one section, and then I believe Concho owns a
18 half section. Are you talking about --

19 Q. I'm sorry. Where you indicate 61 acres'
20 waste.

21 A. Yes, sir. So you can see -- like, for example,
22 let's say on the -- on the -- so there are two plans,
23 right?

24 Q. Yeah.

25 A. What Pride Energy is proposing is a one-mile

1 lateral, right? So that's an area to get our acreage on
2 this -- not on Section 16 but Section 21, we have to
3 drill one-miles, too, to get that acreage, right? So
4 that's an area, if we have the 330 setback, we will not
5 be draining that 61 acres in between those two wells,
6 right? What we are proposing is that if we -- instead
7 of drilling one-miles -- two one-miles to cover that
8 area, if we drill two-miles, in that scenario, we don't
9 have any waste in between. That was the argument there.

10 Q. Okay. And on page 5 of that same exhibit --

11 A. Yes, sir.

12 Q. -- on the lower left-hand corner table --

13 A. Yes, sir.

14 Q. -- years of production and Devon's plan, 24
15 years --

16 A. Yes, sir.

17 Q. -- that's for a two-mile proposal, right?

18 A. Yeah. So there is -- like, I compared -- let's
19 say you drill a mile well, so cash flow for a one-mile
20 well, which in Pride's plan, we would be drilling two
21 one-mile wells exactly. And the two-mile well, where
22 we -- in Devon's plan, we are drilling one two-mile
23 well, right? So one-mile wells will not -- will survive
24 less number of years because of fixed overhead costs,
25 right? You still have to have a pumper, let's say, you

1 know.

2 Q. So about half of those numbers here, basically,
3 the years?

4 A. Yeah. So, for example, if you drill one-mile
5 laterals, you would see here -- for example, for
6 Wolfcamp horizons, it'll survive, let's say, 27 years --
7 29 years. My mistake. And after that, we have to plug
8 it because it's uneconomical. But if you drill a
9 two-mile lateral, it will go to year 37, and then we'll
10 be plugging it. So we'll have additional cash flow.
11 And if the well is economic and it's producing, it's
12 more severance tax and some royalty coming out of it as
13 well.

14 Q. Okay. For your Bone Spring wells, your AFE
15 indicates about 4.9 million, and then for your Wolfcamp,
16 it's about 10 million, 11 million per well, and your
17 overhead is 11,000 for each well, correct?

18 A. Yes, sir.

19 Q. And there is still no specific reason behind
20 all that?

21 A. No. I'm saying I can -- I don't know the exact
22 details, but I can -- I have fairly high confidence that
23 the D&C costs is because in the Wolfcamp well, we're
24 drilling a deeper horizon. Both are our proposals,
25 right, both the 2nd Bone and Wolfcamp? But when we

1 drill Wolfcamp, we're normally drilling deeper but a
2 high-pressure zone, so we have to set a casing --
3 additional casing. So we have to stop and set up the
4 casing on the 3rd Bone and then go back in. So that's
5 on the D side.

6 On the completion side, because the
7 Wolfcamp is low permeable compared to the 2nd Bone, we
8 have to pump a bigger frac job. And then, again, it's
9 deeper, high pressure, so higher horsepower. So we have
10 to pick a bigger pump job, at higher pressure, more
11 horsepower, so completion costs go up. And as far as
12 2nd Bone, we've been -- we don't have to drill -- on the
13 D side, the cost is higher on the Wolfcamp because we
14 have an additional set of casing. So that's why. The
15 deeper you're drilling, high pressure, bigger job, the
16 more expensive it's going to be.

17 **Q. Okay. That's all the questions I've got for**
18 **now. Thank you.**

19 A. Yes, sir.

20 EXAMINER JONES: Mr. Brooks?

21 CROSS-EXAMINATION

22 BY EXAMINER BROOKS:

23 **Q. Okay. Yeah. I want to see if I can understand**
24 **some of this.**

25 **First of all, on the front page, is that a**

1 picture of this particular area, or is that just a
2 picture you got off the Internet?

3 A. No. I think that we have some standard slides.
4 I think that's what it is.

5 Q. But it's not the Cotton Draw area?

6 A. No, no. It's too green for that (laughter).

7 Q. I thought maybe it was, but I wasn't sure.

8 Okay. Now, the 61 acres is based on the
9 330-foot setback?

10 A. Yes, sir.

11 Q. So it would be substantially reduced, as you
12 said in response to Mr. Padilla's question, if the
13 setback -- if the actual setback was only 100 feet?

14 A. One-third, I guess. Yes, I agree.

15 Q. Be a little more than a third reduction?

16 A. Yeah.

17 Q. I mean, there's more to that third reduction?

18 A. Yeah.

19 Q. A little less than a third of the actual
20 amount.

21 A. Yeah.

22 Q. And was that figure used in your calculation --
23 your EUR calculations?

24 A. No. So EUR is just --

25 Q. The EUR is based on -- now, are the EUR

1 **calculations based on a per foot?**

2 A. No. No. Imagine like -- so whenever we drill
3 a one-mile lateral, we were taking care of that 330
4 setback, right?

5 **Q. Right.**

6 A. So those wells showing 340 mbo, if you --
7 excuse me -- and the one-and-a-half mile which we
8 drilled, for example, we're drilling through that 660,
9 right?

10 **Q. Yeah.**

11 A. So it's carrying that additional -- and you see
12 that because the EUR -- what do you call it -- multiple,
13 it should be -- if it's -- you know, if I'm drilling
14 one-mile to one-and-a-half mile, it should be 1.5, but
15 it's more than 1.5.

16 **Q. But it would not. It would actually -- it**
17 **would actually be less than 1.5 if it were -- if the**
18 **per-foot EUR were the same because the one-mile well is**
19 **going to be shorter than 2/3 of the one-and-a-half-mile**
20 **well because of setbacks, right?**

21 A. Yes. Agree.

22 **Q. So actually you're being -- your 1.7 proportion**
23 **of EUR to lateral length, that would actually be a**
24 **little higher, wouldn't it?**

25 A. So here it's --

1 Q. I mean, by comparison to the 1.5 because the
2 1.5 would be lower. So if it's 1.7, you divide it on a
3 per-foot basis. It's going to be -- the comparison is
4 going to be a little more in your favor, right, not a
5 two-mile, right?

6 A. Agree. However, this is not doing -- so if you
7 see the top graph --

8 Q. Yeah.

9 A. -- it's just all the one-miles. I don't care
10 it's 4,600, 4,500, one-mile wells --

11 Q. Right.

12 A. -- and their EUR is 340 mbo in this area.

13 Q. So the 1.7 is still a valid figure?

14 A. Yeah. Let me explain, sir, if you don't mind.

15 Q. Go ahead.

16 A. And the one-and-a-half mile is, again, the
17 wells here in the area, and they are coming out 580,
18 right? So what I'm saying is, if it's -- 580 divided by
19 340 is 1.7.

20 Q. Right.

21 A. And how would it be 1.7? Only if -- because
22 one mile is smaller. It's not exactly one mile. It's
23 actually drilling 4,600 feet, if I'm correct, 4,640 max.
24 That's what you can do because of the setback.

25 Q. Right.

1 A. But if you drill a one-and-a-half-mile lateral,
2 you don't have to worry about the setback, and you pick
3 up that 660. So now you are drilling 72-something. I
4 don't exactly remember. So that 70 --

5 Q. Well, I'm not sure what the number is because
6 you've still got 330 feet on each end, but it's a longer
7 distance. So the -- you know, I don't know exactly what
8 the proportion is, but it doesn't matter because it's
9 more than -- the proportion of the lateral length of the
10 well is more than one-and-a-half to one, right?

11 A. Okay. So let's assume we have two two-mile
12 sections. Let's assume that. Let's go back to slide
13 number three, sir, if you don't mind. If I'm drilling
14 this way, let's say, right, I have to leave a 330 on the
15 well-pad site up north, on Section 16, 330 on the south
16 side. And on Section 21, I have to, again, 330, have to
17 drop there and 330 on the other side. Overall, let's
18 say for a two-mile section, I am leaving -- what? 660
19 plus 660 is 1,320.

20 Q. Right.

21 A. So I'm leaving 1,320.

22 Now, let's say if I'm doing a
23 one-and-a-half mile -- so I'm not going to drill the
24 half section, right? I'm going to drill a three-mile --
25 three-mile section, one and a half on both sides, right?

1 **Q. Right.**

2 A. And in that -- so let's say it's a three-mile.
3 So you have 330, 330, 330, 330, 330. So 660 into three
4 is 18. 320 plus 660 is 1,880.

5 EXAMINER JONES: Yeah.

6 THE WITNESS: 1,880, half on the well side,
7 660 and 330. So that's how much? 660 plus 660 is what?
8 1,320. I gained -- I gained -- I gained 660 feet
9 overall.

10 **Q. (BY EXAMINER BROOKS) Yeah.**

11 A. So that's what -- so if you look at -- I'm
12 not -- this number is not made up, like, it's just like,
13 okay, let's assume one-mile laterals, which should have
14 put that 330 setback coming out at 340. One-and-a-half
15 mile development wherever we did, we are -- we are doing
16 a three-mile section or, you know, where we are
17 actually --

18 **Q. Right.**

19 A. So it's picking up that 660 in between.

20 **Q. Okay. Now, this figure -- and that's -- but**
21 **what it seems to me -- and that was the question that I**
22 **asked you. It seems to me that your ratio of lateral**
23 **length is going to be a little bit longer -- is going to**
24 **be a little bit larger.**

25 A. Yes.

1 Q. But I have trouble figuring -- trouble figuring
2 my way through it where I'm certain about it. But it
3 seems to me it's going to be a little bit larger because
4 your lateral-length ratio with a one-and-a-half-mile
5 well would be more than 1.5.

6 A. It'll be 1.7, and that's what it's showing.

7 Q. Now, the figures on this EUR comparison, are
8 they taken from a composite of the wells?

9 A. Yeah, the same area.

10 Q. They're not comparing two specific wells?

11 A. No, no, no. They have --

12 Q. Composite data from several wells?

13 A. Yeah. So we have some writing --

14 Q. Yeah. And those would be estimated ultimate
15 recovery because these well are not old enough to know
16 what the ultimate recovery would be?

17 A. Well, the estimation that is in front of you --
18 so if you see all of them are declining, what is an
19 average decline here, and it's the same B factor.

20 Q. Right.

21 So you have fairly high confidence in these
22 estimates then?

23 A. I would say so.

24 Q. Okay. But you didn't make separate estimates
25 for the two-mile? You put in here that the longer

1 **lateral would have an approximate one-to-one ratio?**

2 A. Yes. So the two-mile, we didn't do because, as
3 Mr. Padilla suggested, like those -- we just drilled,
4 recently, four wells, two-mile.

5 **Q. Yeah.**

6 A. Great IP, but it's just a month, so I can't --

7 **Q. So if the statement, "longer laterals have**
8 **approximately one-to-one EUR LL ratio," I would assume**
9 **that means that yes, you're still going to get this**
10 **increase per-foot EUR that you have from one-and-a-half**
11 **mile --**

12 A. Yes, sir.

13 **Q. -- or one-mile, but you're not going to get**
14 **much more --**

15 A. No, sir.

16 **Q. -- by going up to the two miles?**

17 A. No, sir.

18 **Q. You might get a little more, might get a little**
19 **less, but you'll probably get one-to-one?**

20 A. Yeah, on the per foot.

21 **Q. Per foot, yeah.**

22 A. I agree, sir.

23 **Q. I'm just trying to understand your data.**

24 A. But here, where I'm trying to make a point,
25 like, if you -- if you're going longer lateral, it is

1 picking up some acreage.

2 **Q. Yeah.**

3 A. And because of one-to-one ratio, you
4 actually -- it's showing in the data that you are
5 getting high EUR because --

6 **Q. Because if you go to a per-foot ratio --**

7 A. Yes.

8 **Q. -- you're getting more than 1.7?**

9 A. Yeah, like more than 1.5. You're getting 1.7.

10 **Q. Yeah. It increases by a ratio of more than 1.7**
11 **to 1.5 because --**

12 A. You've got that 660 feet.

13 **Q. Well, if you did a per-foot comparison, it**
14 **would --**

15 A. Yes. If I would have done this at per foot, it
16 would have been one-to-one.

17 **Q. Okay. Now, I think I kind of understand why**
18 **you say that you can produce the longer laterals for**
19 **longer, but at the same time, I'm a little bit -- I'm a**
20 **little bit unsure if it's a valid perception and maybe**
21 **it is because -- and maybe it isn't, but it can't really**
22 **be based on spreading your fixed costs because your**
23 **fixed costs are not going to change, right?**

24 A. So you have fixed costs per well. It is not
25 changing. Right.

1 **Q.** And what you're saying is your variable costs
2 can be spread over a larger amount of production with --

3 **A.** So let's -- let's say -- so let's say you
4 have -- you have two wells. One well is a single mile;
5 another well is a two-mile lateral.

6 **Q.** **Yeah.**

7 **A.** I have one guy, pumper, checking on both.
8 Let's say it costs \$10,000, both -- you know, both. And
9 then this well is declining. This well is declining at
10 a lower rate, though, because it's two miles. So the
11 rate of decline is still smaller. Now, what happens is
12 that if you look at the total cost per barrel for the
13 well, you add fixed costs and whatever variable costs
14 you have, that is a higher -- what do you call -- margin
15 per barrel compared to a two-mile because there your
16 fixed cost, you're paying just once. There is only one
17 pumper, if it makes sense.

18 **Q.** **Right.**

19 **A.** So, hence, per-barrel cost -- per-barrel cost
20 per well is less for a longer lateral.

21 **Q.** Okay. Now, I think it's -- let's see. Is
22 there anything else I need to ask? Oh, yeah, one other
23 question.

24 We heard some testimony recently to the
25 effect that there were differences between toe-up and

1 toe-down horizontals. And I can't really remember if
2 there were advantages and disadvantages. But we had one
3 engineer on each side, one supporting the toe-up
4 proposal and one supporting the toe-down proposal.

5 But Devon is drilling south to north. That
6 would be the toe down in this scenario, would it not,
7 according to the geologist's structure map?

8 A. I have to check the structure map, but maybe.
9 Possibly.

10 MR. MALINOWSKY: Going toe down.

11 Q. (BY EXAMINER BROOKS) Pride's plan would be
12 going toe up as to Section 16 because they would be
13 drilling south -- north to south as to Section 16.
14 Whereas, you'd be drilling south -- you'd still be
15 drilling south to north. But I'm not going to ask you
16 that because you're not really -- that's not part of
17 your case. But do you have an opinion as to whether or
18 not that makes any difference or any difference in
19 economics of your well?

20 A. So we have done some studies internally of the
21 toe-up and toe-down issues, and I think we did mainly --
22 first of all, we did it in the STACK, and then we did in
23 the Delaware Basin. And what do you call it? The
24 R square -- like, the variation was so high that I can
25 match it to the phases of the moon and -- you know, it

1 was not a strong correlation.

2 Q. Well, that's always true with correlations.

3 A. Yeah.

4 Q. You can get correlations as to all kinds of
5 bizarre things.

6 A. Yeah.

7 Then we -- then we thought, okay, it might
8 be something else. Let's just do how much -- they call
9 it something. I don't remember the exact term, but
10 basically how crooked a well is. Maybe they think there
11 is a pool of oil getting stuck in some places. And it
12 was still pretty high. It's like a shotgun kind of
13 data. I mean, you can't -- you can't make -- you can't
14 make a clear correlation. So we just decided to ignore
15 that and then just drill our wells. And what we have
16 noticed, as long as you have good reservoir, it's
17 typically -- unconventional is more like a statistic
18 play. You have some real good wells, some bad wells.
19 Overall, the economics will make sense. So as a
20 project, you should go out and drill.

21 Q. Okay. Well, I think that's all my questions,
22 so I'll pass you.

23 EXAMINER JONES: You didn't leave me any
24 time, Mr. Brooks.

25 EXAMINER BROOKS: Well, you don't have

1 anybody ringing a bell on you.

2 EXAMINER JONES: I guess I'll be quick
3 here.

4 EXAMINER BROOKS: Go as long as you want
5 to. Sorry I took so long.

6 CROSS-EXAMINATION

7 BY EXAMINER JONES:

8 Q. I didn't ask Mr. Malinowsky about the pilot
9 hole versus control issue, but you probably know all
10 about it.

11 A. A little bit.

12 Q. Are you going to drill any pilot holes out
13 here, or --

14 A. We have drilled a pilot hole down -- down in
15 the Lusitano, on the west [sic] side. We also have a --
16 we recently drilled right smack in the middle of the
17 Cotton Draw acreage. We might have to drill a pilot
18 hole, but mostly it's going to be on the south-side
19 wells, which are going -- because that's almost close to
20 the fault, we think.

21 So since we're drilling, as I said, not
22 only to the north on the same pad, but we're also
23 drilling to the south of the Wolfcamp and we think that
24 the fault might be going through that, that'll be the
25 play actually where we're drilling our pilot hole.

1 Q. Okay. If you drilled a pilot hole and somebody
2 else saw the public data, would they get the same
3 benefit from it as you want, or would you get more
4 benefit from being the operator, and the data that you
5 have to share through the state requirements might
6 not -- does that make a difference?

7 A. Well, to land the lateral right, you need to
8 make a decision right there. With the public data,
9 someone has to do it before, and then I can go out and
10 check. But when you are there, you've got to -- you've
11 got to figure out exactly where you're going to be
12 landing. But I don't think there is any proposal for
13 any pilot hole going on.

14 Q. I guess more the point, if Pride drilled their
15 wells in Section 16 and you were 50-percent owner, would
16 you want them to drill a pilot hole?

17 A. It's all geologists. They're the ones who -- I
18 don't think I am the right person to --

19 Q. You said you were an engineer for Schlumberger
20 for the first two years?

21 A. Five years.

22 Q. You didn't mean logging engineer?

23 A. No.

24 Q. You were a completions --

25 A. Yeah.

1 Q. Okay. There's a -- Concho, especially, makes a
2 big deal of spacing of wells and drilling some wells
3 like 50 feet from the others and doing the zipper fracs
4 to rubblize the formation, and they're spending an
5 enormous amount of money in a short period of acreage --
6 or a short acreage block to kind of prove the point.
7 And you're proposing one well per 1,320 spacing, it
8 looks like here. So what's that about?

9 A. So as far as the Bone Spring is concerned, we
10 know four wells works. Again, as I said, we have done
11 six wells -- six wells per section. What do you
12 call it? The test in -- it didn't go too good. And we
13 have seen those -- if you look at even in those parts,
14 some wells, when we drilled single and they don't have
15 any child well or they don't have any competition, they
16 do good for long-term. And so when we came back and we
17 tried to drill after some time, we have to scoot a
18 space. Otherwise, those wells didn't do good.

19 So for sure we know 2nd Bone within -- the
20 permeability makes sense to have more spacing. The more
21 permeable the reservoir is, you don't have to drill many
22 wells.

23 On the Wolfcamp side, as I said, people are
24 drilling very tight spacing, on the EOG side, for
25 example.

1 We have our test in the Lusitano, which we
2 are currently doing. We're doing eight wells a section
3 in the Wolfcamp and four wells a section on top 3rd
4 Bone. So that's our plan. Now, we don't know what the
5 result is going to be, but depending upon those results,
6 we're going to go whichever is the most optimum. We
7 don't want to leave any reserves behind. And sometimes
8 we have noticed that when you drill one horizon and then
9 you don't drill the other horizon which is very close
10 by -- because not only is it a depletion issue, but also
11 when you frac and you frac and go to a more depleted
12 area because of low pressure and you just want to find
13 the easiest way, you have to drill them together pretty
14 quick. And that's what we are trying to achieve here.

15 As I said, in the Van Dooda section, which
16 is the two sections down south, we're drilling pretty
17 heavily. We're going to be drilling pretty heavily to
18 figure out exactly where we want to be drilling.

19 **Q. Okay. The 3rd Bone Spring, is that**
20 **prospective?**

21 A. For us, it's prospective.

22 **Q. In this area. But your Wolfcamp wells, are**
23 **they going to be affecting them?**

24 A. We don't know. That's why we -- we don't know
25 right now. So we have the Lusitano test right now to

1 figure that out. So that's on the west side of our
2 acreage, the two-mile. And in 27-15 -- I don't know the
3 section, township -- but that's --

4 MR. PROUT: 25 South, 31 East.

5 THE WITNESS: 25 South, 31 East.

6 Q. (BY EXAMINER JONES) Okay. It's just to the
7 west then.

8 A. Yeah. So that's where we are tight-spacing and
9 figuring out. Like I said, Devon is a prudent operator,
10 and we want to develop all the acreage more optimally so
11 we get the best out of the wells.

12 Q. Your -- your pads seem pretty fixed now, and it
13 seems like that's something you wouldn't want to move,
14 your pads. After the horizontal well rule goes into
15 effect and you turn in a sundry to change your setbacks,
16 can you do the S-shaped type wells to get your first
17 take point, first meaning first uphole --

18 A. Yes.

19 Q. -- 100 feet from the line without raising your
20 costs too much?

21 A. So what we do these days with the large pad --
22 imagine we have -- so we have several prospective
23 horizons. So what we -- what we think we want to do, we
24 want to drill one line of wells, 30-feet spacing,
25 deepest-most horizon. And then after that, you go 150

1 feet here, 150 feet here, and then the next set of wells
2 on a shallower horizon. We do that. Then 150 feet, 150
3 feet until you -- I mean until -- that's why we have a
4 larger pad. We are clearing the surface area.

5 Q. Okay. And what sort of pumping equipment -- I
6 mean, they'll flow naturally, I assume, for a while, but
7 are you going to put gas lift?

8 A. Gas lift.

9 Q. Gas lift.
10 So you can draw them down quite a bit then?

11 A. Yes. Yes.

12 Q. And what about your -- you mentioned BOEs. So
13 what is your expected GOR?

14 A. GOR for 2nd Bone should be running around -- in
15 this area, when you open the well, it should be running
16 around 1,700 pounds per -- I'm sorry -- scf per well.
17 And then once you go below bubble point, it will be
18 going up to somewhere around 3,330, 3,500 scf per well.

19 Q. Okay. But your initial is 2,000.

20 What about your Wolfcamp?

21 A. Wolfcamp? It's higher. We should see
22 somewhere around 3,000 and settling around 45- to 6,000,
23 depending. Because what we have noticed is that as you
24 go west from a deeper basin, it's more gassier and
25 gassier, so depending upon where you're drilling.

1 **Q. Okay. And your water production?**

2 A. Water production for the Bone Spring is one to
3 one for some time, and then it goes up. The water goes
4 up to three, I would say, later on, though. Bone Spring
5 is -- in this area, the Bone Spring is pretty good.

6 As far as Wolfcamp is concerned, your
7 IP [sic] -- you clean up and then you go to one to one
8 again, but then that goes pretty quick up to three.

9 **Q. Okay. But you're still -- you're still able to**
10 **move that water later on in life because of the gas lift**
11 **that you anticipate putting on?**

12 A. Yes. Yes. I mean, for -- yeah. I mean,
13 that's -- because at three -- I mean, that much gas, gas
14 lift is a better option than actually running ESPs. We
15 used to run ESPs before, and they used to go down left
16 and right.

17 **Q. Oh, yeah? You don't want to lose that cable in**
18 **the hole either.**

19 **Infrastructure out here -- so Cotton**
20 **Draw -- Devon has a good infrastructure?**

21 A. Yes, sir. We -- we have our own facilities.
22 We have, as I mentioned, gas capacity, takeaway
23 capacity. We have DCP, Enterprise and -- one more. I
24 forgot. But we have that. We have a compressor station
25 in Cotton Draw. We have a CO2 scrubbing facility with

1 that compressor so that we can sell even higher
 2 CO2-content gas. Oilwise, we have a pipeline contract
 3 with Plains, and it's -- as I said, for the next few
 4 years, we have pretty solid -- what do you call it --

5 Q. Contracts?

6 A. Yeah, like availability of pipe.

7 Q. Your completion, when you pump -- you make your
 8 business decisions based on your economics, right,
 9 basically your DCF, ROI? So basically your overall
 10 ultimate recovery is not as important to you as your
 11 economics; is that correct?

12 A. Both, but economics is more superior. But we
 13 also have to report our reserves to the SEC, and we have
 14 certain targets in that, too.

15 Q. Okay. But when you're pumping two miles down
 16 and if you drill a one-mile well, you're pumping
 17 basically three -- three or so miles to affect your --
 18 to carry your sand. And your friction inside -- is
 19 5-1/2 going to be your smallest one?

20 A. Yeah. 5-1/2, I would say.

21 Q. So is that going to affect your -- affect the
 22 lease of your completion if you go another mile, like
 23 four miles you're trying to pump to get your frac off?

24 A. Our contracts are locked in in a certain way
 25 that we can actually go out and do -- so we decide what

1 we want to do, and then when we go to our contractor,
2 that's -- so, for example, in this scenario, it's a day
3 rate. So it doesn't matter --

4 **Q. You're talking about horsepower?**

5 A. Yeah.

6 So it doesn't matter for us, and we can
7 pump at a higher rate because it's --

8 **Q. But you don't want to burst your casing.**

9 A. Yeah. So our casing that we put in is actually
10 high rated because it saves us a lot of time as far as
11 frac is concerned. We have our own -- 15K, so --

12 **Q. 15,000-pound wellhead?**

13 A. Yeah, per one wellhead.

14 So the plan -- I mean, so the idea is --
15 our idea is what is the optimal plan and, once we have
16 that, making sure we have the best contracts to actually
17 support that.

18 **Q. Okay. But isn't it true that the effectiveness**
19 **of your completion if you're pumping four miles is going**
20 **to be less than your effectiveness of your completion if**
21 **you're pumping three miles?**

22 A. Well, in this scenario, it's two and two
23 because you still have -- you just go two up, and then
24 the wells going down have two.

25 **Q. But, I mean, you've got your vertical portion**

1 **of the pump?**

2 A. Yeah, yeah. So it's three-mile, I would say.
3 Yes.

4 **Q. Okay.**

5 A. Actually, four. You're right. Yeah. You're
6 right. It's four miles.

7 **Q. It's a long ways.**

8 A. Yeah. It's a long ways.

9 I mean, technology has gone up. Now the
10 friction reducers now work with -- we have -- for
11 example, to keep costs low, we have our recycling
12 facility. So we just use our produced water. We don't
13 have to resource any water. And that goes to the point
14 of having infrastructure and recycling, a lower
15 footprint. And then the current new generation of
16 friction reducers, they work pretty well. They work
17 pretty well.

18 **Q. Okay. What -- is it slickwater frac? So you**
19 **use 30-pound Boragel, or what are you using?**

20 A. So it depends. For, so example, for the
21 Wolfcamp, we do slick water. The reason is --

22 **Q. No crosslinking?**

23 A. No, because we don't need -- I mean, the reason
24 on the Wolfcamp is you don't need much permeability
25 increase because the perm is so low of the reservoir

1 that even a few smaller sand grains is a lot for it. So
2 you want more of it, so a different strategy.

3 In the Bone Spring, though, we sometimes --
4 sometimes use the crosslinked at a very low gel rate
5 because -- because we want to grab some height.

6 **Q. What about sand sizes that you're using?**

7 A. We source our sand from the local mine, so
8 that's a gain. We try to keep the cost low. And then I
9 think if I'm correct, we're pumping on the lower side,
10 the mesh side.

11 **Q. 100 mesh?**

12 A. 100 mesh, 47 [sic].

13 **Q. No 200 mesh at all?**

14 A. No. No.

15 And, again, I'm saying that as a reservoir
16 engineer. But I just know --

17 **Q. But you're kind of unusual because you've got**
18 **completion experience --**

19 A. Yes, sir.

20 **Q. -- and a lot of reservoir engineers don't.**
21 **They've never done that. So --**

22 A. Yeah.

23 **Q. Are you going to do any tracing of your**
24 **completion, like chemical tracers?**

25 A. Not on these wells, but on the test wells which

1 we're doing in the Lusitano to figure out if they're
2 talking to each, or what is the well spacing we should
3 be doing to get the right answer, optimal answer.
4 Probably there, but not here.

5 Q. Are you concerned with staying in the zone as
6 much as you're concerned with maybe drilling a little
7 bit toe up? In other words, in the Wolfcamp, if you
8 have a big gross interval that looks pretty similar --

9 A. In zone, that's the way to go. I've noticed if
10 you go outside the zone, fracking is hard. Everything
11 is hard. You have to stay in zone. Wherever the best
12 rock, keep the well there.

13 Q. Okay. You worked the Bakken also. We heard
14 some reports that Bakken, if you drill the longer wells,
15 you reduce your efficiency of your overall well a little
16 bit from the shorter wells. What's that about?

17 A. So what we have -- so you're right. What we
18 have noticed -- and we are testing in different areas,
19 not here. But in another area, we have east -- Tistle.
20 That's a majority of state acreage, actually. We're
21 drilling a three-mile lateral, for example, there and
22 trying to see if the EUR actually goes one on one on
23 that. And then if that makes sense, we're going to
24 drill the three-milers. So what we do is we test a
25 little bit and see how the EUR is responding, and then

1 if it makes sense, then we actually do it.

2 So right now our confidence level is pretty
3 high with two-miles. On three-miles, we're still
4 testing. We just have one well we drilled, and I know
5 that we're going to drill a few more wells in the
6 shallower horizon.

7 And another problem here is lack of coil
8 tubing. So if you want to drill a longer lateral -- a
9 very long lateral, you are limited by the quality of the
10 tubing size.

11 Q. You ever clean out your well?

12 A. Yeah.

13 Q. Do you do any logging of the well besides gamma
14 ray behind your bit; is that correct?

15 A. Well, we do an open hole.

16 Q. You do some open-hole logging --

17 A. Uh-huh.

18 Q. -- of the horizontal section?

19 A. Yes.

20 MR. MALINOWSKY: Not all the wells. There
21 have been a few here recently that we have.

22 EXAMINER JONES: You have a motor you pull
23 it from? Like a tractor, you pull it along?

24 MR. MALINOWSKY: Yes. It's a memory-type
25 logging device. Yes.

1 EXAMINER JONES: Okay. Has that been
2 valuable data to recover?

3 MR. MALINOWSKY: Yes.

4 THE WITNESS: That's more on geology.

5 EXAMINER JONES: He's always going to say
6 that.

7 THE WITNESS: That's more on geology, less
8 on the engineering side. But as I said, if you look at
9 the statistical play, that's when --

10 EXAMINER JONES: Okay. Thanks very much.
11 Any more questions for this witness before
12 we go?

13 EXAMINER BROOKS: No.

14 EXAMINER JONES: Mr. Padilla?

15 MR. PADILLA: I have one question.

16 RECROSS EXAMINATION

17 BY MR. PADILLA:

18 Q. Mr. Sharma --

19 A. Yes.

20 Q. -- you testified about drilling wells to the
21 south from the same pad --

22 A. Yes.

23 Q. -- right?

24 Have you filed the APDs for those wells?

25 A. I believe 2nd Bone, we did. Wolfcamp, probably

1 we did, too.

2 Q. You don't know?

3 A. I don't know. I know for sure 2nd Bone, we
4 did, because that was Plan A to do. But the 2nd Bone is
5 our development horizon. We are drilling left and
6 right. And you can see on the map, we are moving
7 eastwards and drilling it all.

8 MR. PADILLA: That's all.

9 MR. McMILLAN: Nothing further.

10 EXAMINER JONES: That's it for the Devon
11 case?

12 MR. McMILLAN: That concludes our case.

13 EXAMINER JONES: Okay. Thank you-all very
14 much.

15 THE WITNESS: Thank you.

16 EXAMINER JONES: Come back at 1:45.

17 (Recess, 12:16 p.m. to 1:45 p.m.)

18 EXAMINER JONES: Let's go back on the
19 record in this special docket for June 12th. I guess
20 we'll start with Pride's case.

21 MR. PADILLA: Mr. Examiner, we'll call Matt
22 Pride to start off with.

23 MATTHEW PRIDE,

24 after having been previously sworn under oath, was
25 questioned and testified as follows:

1 DIRECT EXAMINATION

2 BY MR. PADILLA:

3 Q. Mr. Pride, please state your full name.

4 A. Matthew Pride.

5 Q. And where do you live, Mr. Pride?

6 A. I live in Tulsa, Oklahoma.

7 Q. And what is your connection with Pride Energy
8 Company, the Applicant in these cases?

9 A. I'm the co-owner.

10 Q. And have you testified before the Oil
11 Conservation Division in some capacity?

12 A. Yes, I have.

13 Q. And what has been that capacity?

14 A. As a petroleum landman.

15 Q. Okay. To familiarize the Examiner with your
16 credentials, can you briefly tell us how you became a
17 landman and --

18 A. Yes. We've been in business for about 37 years
19 now. We started out doing consulting work. This has
20 been 30-some-odd years ago, land consulting work. And
21 we got into acquiring and producing properties and
22 producing working interest. And then we got into
23 drilling wells, and we operate wells now in about nine
24 different states. And we've been operating in
25 New Mexico for nearly 20 years.

1 Q. And this morning Mr. Brooks alluded to a fight
2 between Yates Petroleum and Pride Energy. Were you
3 involved in that?

4 A. Yes.

5 Q. As a landman?

6 A. Yes.

7 Q. And are you the person that will be commencing
8 the -- starting the applications for the drilling
9 prospects involving these cases today?

10 A. Yes.

11 Q. So you made the proposals to Devon, so you're
12 familiar with what you're trying to do here?

13 (Examiner Brooks exits the room.)

14 A. That is correct.

15 MR. PADILLA: We tender Mr. Pride as a
16 petroleum landman.

17 EXAMINER JONES: Any objection?

18 MR. McMILLAN: Can I just ask a couple of
19 quick questions.

20 EXAMINER JONES: Take your time. Ask lots
21 of questions because Mr. Brooks is not here.

22 VOIR DIRE EXAMINATION

23 BY MR. McMILLAN:

24 Q. I heard you describe Pride's -- Pride's
25 history. Your own history as a practicing landman, are

1 **you currently a practicing landman?**

2 A. Yes.

3 **Q. How long have you been practicing as a landman?**

4 A. 37 years.

5 **Q. It's been -- the whole time you've been a**
6 **landman for Pride Energy?**

7 A. Yes.

8 MR. McMILLAN: No objection.

9 EXAMINER JONES: Mr. Matthew Pride is
10 qualified as an expert in petroleum land matters.

11 CONTINUED DIRECT EXAMINATION

12 BY MR. PADILLA:

13 **Q. Mr. Pride, rather than going through what each**
14 **of these applications states, I'm going to have you go**
15 **into Exhibit Number 1 and tell us what that is.**

16 A. Exhibit 1 is a land plat that shows who the
17 working interest owners are as to the Wolfcamp and the
18 Bone Spring Formations in the offset tract around our
19 lease, which is in the north half of Section 16.

20 **Q. So the color code in light green is what you**
21 **own in the north half of Section 16; is that right?**

22 A. Yes, specifically in the northwest quarter and
23 the west half of the northeast quarter.

24 **Q. And Devon owns a majority of the acreage**
25 **surrounding there, including the south half of Section**

1 16, right?

2 A. Correct.

3 Q. And this morning there was some discussion
4 about that Conoco 80-acre tract in the east half of the
5 northeast quarter. And that's not involved?

6 A. No, it is not.

7 Q. So as far as your application is concerned, you
8 are attempting to pool with your applications, for both
9 the Bone Spring and the Wolfcamp Formations, the west
10 half of Section 16 and the west half of the east half of
11 16, right?

12 (Examiner Brooks enters the room.)

13 A. That is correct.

14 Q. Okay. And you're proposing to drill six wells?

15 A. Yes.

16 Q. Three Bone Spring -- 2nd Bone Spring?

17 A. 2nd Bone Spring.

18 Q. And three Wolfcamp?

19 A. Correct.

20 Q. Now, let's go on to Exhibit Number 2. Tell us
21 what that is.

22 A. Exhibit 2 is the permits to drill, Form C-101,
23 that the OCD has approved Pride Energy to be operator of
24 these six wells that we're referring to, which was
25 approved back in February of this year, along with the

1 Form C-102 that's attached.

2 Q. Mr. Pride, would you speak a little louder?

3 I'm having a hard time hearing you.

4 A. Yes.

5 Q. Now, originally you proposed this as a 320-acre
6 proration unit; is that right?

7 A. On the 501H well, it was originally proposed,
8 but we filed Form C-103 and amended that to the 160,
9 which is the west half of the west half of Section 16.

10 Q. Okay. Now, attached to that application,
11 Exhibit 2, starting on the second page, is an
12 application for permit to drill -- zone. Has that
13 application been approved?

14 A. Yes.

15 Q. Who approved it?

16 A. OCD.

17 Q. How long has this been -- it has been approved
18 for how long?

19 A. It was approved in February of 2018.

20 Q. When you proposed this to Devon, had you
21 already started the process of the applications? Had
22 you already applied for the application to drill --

23 A. Yes, we had.

24 Q. -- before you started talking to Devon?

25 A. Yes, we had.

1 **Q. When did you talk to Devon?**

2 A. Well, we had various telephone conversations.
3 I mean, before this APD, we had talked on the telephone,
4 had conversations, before this APD was approved in
5 February. It goes back into the latter part of 2017 or
6 so.

7 **Q. Tell us your version of the conversations or**
8 **the communications that you've had with Devon concerning**
9 **drilling of your proposed wells?**

10 A. Well, Devon was wanting to buy our acreage. We
11 have 240 acres in the north half, and they were wanting
12 to buy our acreage. And so they made a proposal that --
13 that -- that they were -- said it and even put it in the
14 form of an email. They called and said, "Well, we're
15 considering drilling a mile-and-a-half from the south
16 section line of 21, drilling it north only up to the
17 half section line of Section 16, which would essentially
18 strand our acreage in the north half from being
19 developed with the north-south lateral. And the State
20 of New Mexico owns the minerals under our lease. And
21 so, you know, we weren't going to sit around and get
22 stranded. There are a lot of reserves there that would
23 essentially be stranded because we couldn't drill the
24 one-mile lateral. So that's when we made the well
25 proposals -- or got the APDs filed and made the well

1 proposals because we didn't want to get stranded.

2 Q. Mr. Pride, in this morning's testimony by
3 Devon, the testimony was that you turned down \$18,000 an
4 acre. Can you explain why you did that?

5 A. Well, when we got that offer from Devon, we
6 were already evaluating, but we went back and
7 re-evaluated the potential from this acreage there, from
8 the Bone Spring, as well as the Wolfcamp. And after
9 evaluation, the offer, we felt, was way inadequate
10 considering -- considering the amount of reserves from
11 this unit.

12 Q. So let's go back down to -- let's move on to
13 Exhibit Number 3, and tell us what that is.

14 A. Exhibit 3 is our -- is our -- Pride Energy
15 Company's well proposal dated February 26 to Devon
16 Energy, the well proposing being -- proposing three
17 Wolfcamp --

18 Q. I'm talking about Exhibit 3, Mr. Pride. It's
19 the other APD.

20 A. Oh, okay. This is the APD for the 502. Is
21 that what you're referring to?

22 Q. Yes.

23 A. Yeah. This is the application and permit to
24 drill that the OCD approved Pride Energy Company to
25 drill the 502H well.

1 Q. Did you at any time have to amend this one?

2 A. No, we did not.

3 Q. So this calls for drilling of the east half --

4 I mean the west half of the east half of 16, correct?

5 A. Correct.

6 Q. Okay. And that's been approved by the OCD? Is

7 that also correct?

8 A. Yes, it is.

9 Q. Now, all of these applications show the exact
10 footage, but I'm not going to have you recite where
11 you're going -- where your surface location is or where
12 your bottom-hole location is located. It's stated in
13 these applications, correct?

14 A. Correct.

15 Q. Okay. Let's go on to Exhibit Number 4, and
16 tell us what that is.

17 A. This is the application permit to drill for the
18 503H where the OCD approved Pride Energy Company to be
19 the operator.

20 Q. Okay. And that dedicates the east half of the
21 west half of Section 16?

22 A. That's correct.

23 Q. Okay. And attached to that is a C-102, last
24 page of that?

25 A. Yes. Yes.

1 Q. And the 102 shows the exact footage locations
2 for all of these wells in these exhibits, right?

3 A. That is correct.

4 Q. Okay. Let's go to Exhibit Number 5. And are
5 we now talking about -- starting with the Wolfcamp
6 wells, and you have those as 700 wells, right?

7 A. 701H is the first one.

8 Q. 701H.

9 And they pretty much mimic the Bone Spring
10 proration units, correct?

11 A. Yes, that's correct.

12 Q. So you have the 701H, the 702H and the 703H,
13 correct?

14 A. That is correct.

15 Q. And these exhibits, through Exhibit 7, speak
16 for themselves in terms of where you -- what you intend
17 to drill and footage locations and dedication?

18 A. That is correct.

19 Q. All right. Let's go to Exhibit Number 8. Tell
20 us what that is.

21 A. Exhibit 8 is Pride Energy Company's well
22 proposal and AFE, dated February 26, 2018, to Devon
23 Energy Production Company, L.P. There is one for each
24 of the six wells.

25 Q. Okay. They're separated by a yellow sheet,

1 **right?**

2 A. That is correct. Yes, sir.

3 Q. Okay. What did you propose -- let's look at
4 **Exhibit -- the first proposal that was made on February**
5 **26, 2018 to Mr. Prout's attention. Tell us about what**
6 **you proposed.**

7 A. Well, for the Paduca 16 State 501H, we proposed
8 a Bone Spring test there to drill a total vertical depth
9 of 10,550 feet, with a total measured depth of 15,283,
10 approximately.

11 Q. Okay.

12 A. We also have attached an AFE for the total
13 completed well cost.

14 Q. What does your AFE -- what is the -- what is
15 **the final total of drilling and completion costs for**
16 **your proposed wells?**

17 A. It's \$6,672,000. That's for the Bone Spring.

18 Q. Okay. Is this different than what you heard
19 **this morning from the Devon witnesses?**

20 A. Yes, it is.

21 Q. Can you tell us briefly -- and I know your
22 **engineer is going to go into more detail on the well**
23 **costs, but how did you arrive at the well costs that you**
24 **have in your AFE?**

25 A. We arrived at it based on bids that we just

1 recently obtained from various vendors and from
2 drilling, frac, geosteering, on down the line. So these
3 are recent -- recent bids.

4 **Q. You're going to be asked by Devon's attorney,**
5 **I'm sure, about your experience with drilling Bone**
6 **Spring wells or horizontal wells. Can you tell us about**
7 **that?**

8 A. Yes. Wherever we may be drilling, whether it
9 be New Mexico, Oklahoma, Texas, wherever it is we may be
10 drilling, we always obtain the vendors, so to speak, the
11 drillers, the geosteering, the engineers, on down the
12 line, with multiple years of experience in that area.
13 That's the first thing we look at, is the amount of
14 experience that they have drilling Bone Spring and
15 Wolfcamp wells. And Steve Morris is our consulting
16 engineer on this. And all of the other vendors that we
17 have, we've gone through and identified; every one of
18 them has got to have extensive experience in that area.
19 And we do that no matter where we are drilling,
20 Oklahoma, New Mexico, or wherever it may be.

21 **Q. Do you operate wells in this area?**

22 A. Yes. We operate five producing wells on this
23 240-acre -- vertical wells that we drilled some 15 years
24 ago in that 240 acres, in the north half of Section 16.

25 **Q. What kind of infrastructure do you have there?**

1 A. We have a saltwater disposal well. We've had
2 it for several years, as well as a tank battery. So all
3 we have to do is add on additional tanks to that tank
4 battery for -- for future wells that may be drilled.

5 **Q. So you have infrastructure as well, right?**

6 A. Yes.

7 **Q. How about a gas market?**

8 A. Yes. We have -- we sell our gas to DCP. And
9 we have another gas purchaser who contacted us recently,
10 so we'll be able to market the gas without any problem.

11 **Q. How about the oil?**

12 A. The oil as well. We sell oil to Enterprise and
13 also to Sunoco. And we've always bid all of our oil and
14 natural gas as far as that goes. We bid it out to be
15 able to get the highest price.

16 **Q. Let's look at -- now, the AFEs for the Bone
17 Spring are the same, right?**

18 A. The AFE for each of the three Bone Spring wells
19 will be basically the same.

20 **Q. And let's look at a Wolfcamp well. Can you
21 tell us -- that's the 700 wells?**

22 A. Yes. These are three well proposals, again, to
23 Devon Energy, dated the same date, February 26th, 2018.
24 Looking at the first one, for the --

25 **Q. You're looking at the 701 proposal?**

1 A. Yes.

2 **Q. And how does that differ?**

3 A. Well, it's a little more because you're
4 drilling to the Wolfcamp, which is a little deeper. So
5 the AFE -- the total completed well costs are 6,780,000
6 on the AFE.

7 **Q. How much are you proposing for completion and**
8 **stimulation, or is that included in that?**

9 A. That's included in the total completed well
10 costs.

11 **Q. Okay. Are these figures in line with what you**
12 **see out there, other than your own bids, in terms of**
13 **compiling drilling costs and completion costs?**

14 A. Yes, they are. This is for a one-mile
15 horizontal. It's in line with, I can say, what we've
16 recently received, bids from many vendors on it.

17 **Q. So let's look at the 702 well proposal. That's**
18 **the same as the other, correct, as the 701?**

19 A. Yeah. The total completed well costs is the
20 same as the 701H.

21 **Q. Now, let's get into the guts of your proposal.**
22 **Let's look at the 702 well. And, in particular, you**
23 **have itemized there in the bottom one-third of that**
24 **page. What was your proposal to Devon?**

25 A. The proposal is to either participate in

1 drilling and completion of the well, or they can lease
2 or assign their interest to Pride for a cash bonus of
3 \$1,500 per acre if they can deliver 1/8 or 87.50 revenue
4 or assign their interest for a cash bonus of \$1,000 per
5 acre or 81.25 percent of revenue delivered.

6 **Q. This morning we were told that 1,500 per acre**
7 **was unrealistically low. Can you explain that?**

8 A. Well, I mean, Devon has the option, of course,
9 to participate. They can certainly do that. And we
10 feel like this is fair market value in this area here,
11 and if they want to participate, we welcome that.

12 **Q. At the time that you made the proposal?**

13 A. Yes, at the time we made the proposal.

14 **Q. What was the reaction to your well proposals?**

15 A. Well, after Devon received our well proposal,
16 we received their six wells proposals two days later.

17 **Q. And that set up the competition that we're**
18 **talking about here today, correct?**

19 A. Yes. Yes.

20 **Q. Let's move on to Exhibit Number 9. Tell us**
21 **what you are trying to demonstrate there.**

22 A. Exhibit 9 is Pride Energy Company's proposed
23 lateral for the three Bone Spring wells and three
24 Wolfcamp wells in Section 16.

25 **Q. Why did you prepare this exhibit?**

1 A. So it can be easily visualized approximately
2 where those laterals will be located within the section.

3 **Q. And this also shows the footage of all of the**
4 **wells, both the surface location and the bottom-hole**
5 **location, right?**

6 A. Yes, it does.

7 **Q. Okay. Let's go to Exhibit 10. Tell us what**
8 **that is. What's Exhibit 10?**

9 A. Oh. Exhibit 10 is a comparison of the surface
10 footprint between Pride's proposed drilling location and
11 Devon's proposed drilling locations, and Devon has a
12 much larger surface footprint. On the plat, we've
13 platted six surface locations. This is based on the
14 well proposal -- all the well proposals that we got from
15 Devon. We heard different testimony today, that I heard
16 for the first time, as far as on the surface-hole
17 location. This is based on the well proposals that were
18 sent to us.

19 **Q. Based on the well proposals, they have a much**
20 **larger footprint?**

21 A. Yeah. They've got -- as you can see down in
22 Sections 21 and 28, the surface-hole locations were
23 plotted here based on their well proposals. There are
24 six of them.

25 **Q. Okay. And that may change. To be fair, that**

1 **may change based on the testimony today?**

2 A. Yeah. Correct. Correct.

3 **Q. So -- but it clearly shows your footprint at**
4 **the top of -- north half of Section 16?**

5 A. Yes.

6 **Q. Okay. Let's move on to Exhibit 11. What is**
7 **that?**

8 A. Exhibit 11 is Pride Energy Company's drilling
9 order of Pride's six proposed wells in Section 16, and
10 it lists them in order that we will be drilling the
11 wells.

12 **Q. Why do you not drill all of the Bone Spring**
13 **first, or why not all of the Wolfcamps first?**

14 A. Well, for example, the first well we will
15 drill, the Paduca 16 State 701H, which is the Wolfcamp
16 well, that well and well number two is the 501H, it
17 would be located on the same drilling pad. So you can
18 actually skid the rig and save costs rather than moving
19 the rig to another pad and move it back. We can skid
20 the rig and drill both wells back-to-back.

21 **Q. Now, your engineering witness is going to**
22 **testify more about this drilling quarter, right?**

23 A. Correct.

24 **Q. In terms of how you want to maximize**
25 **production?**

1 A. Yes.

2 **Q. So this takes care of all the six wells?**

3 A. Yes.

4 **Q. What is Exhibit 12?**

5 A. Exhibit 12 is the comparison of the drilling
6 overhead rates and the producing overhead rates between
7 Pride and Devon. Devon has set out in their well
8 proposals to us -- and as I think was testified this
9 morning -- that they charge \$11,000 for the drilling
10 overhead rate and \$1,100 per month for the producing
11 overhead rate. Pride would charge \$7,500 for the
12 drilling overhead rate and \$750 for the producing
13 overhead rate.

14 **Q. Are your rates consistent with the COPAS rates**
15 **in joint operating agreements that you have seen?**

16 A. Yes, they are.

17 **Q. And so your 7,500 and 750 rates would be what**
18 **you would -- what you would ask the Division if your**
19 **applications were granted as overhead rates?**

20 A. That is correct.

21 And I might go ahead and point out also
22 that the difference between 1,100 that Devon would
23 charge and 750 that Pride would charge, looking at that
24 over the life of the wells -- these wells could last 20
25 years. If you take six wells times \$350 per month times

1 12 months times 20 years, that's over \$500,000 to the
2 joint account. So that's what we're talking about. It
3 sounds little when you're talking about \$350 a month.
4 But when you're talking about over the life of the well,
5 it's a substantial amount.

6 Q. Now, I neglected to ask about your educational
7 background. And your degree is in accounting, right?

8 A. That is correct.

9 Q. So for an accountant, that makes sense in terms
10 of comparing figures over the life of the wells and that
11 sort of thing?

12 A. Yeah. It makes sense to charge 750 instead of
13 the 1,100 when you're talking about that substantial
14 amount of difference.

15 Q. Okay. Now, this morning we heard testimony
16 about -- from Mr. Sharma that he wasn't sure whether or
17 not some of the on-center [sic] figures were going to be
18 included in the drilling rates and that sort of thing.
19 Do you have any of that sort of expense associated with
20 drilling rigs or production rates?

21 A. As far as on what Devon would charge?

22 Q. Yes, in terms of what goes into overhead rates.

23 A. Well, I mean, we own other Devon wells --
24 various Devon wells, and typically they charge an
25 overhead rate. But then they also charge field

1 supervision and vehicle, on and on, and it just adds up,
2 and it gets quite substantial. So the administrative
3 overhead rate is not just it, but they have all these
4 add-ons.

5 Q. Anything further on Exhibit 12?

6 A. I don't think so.

7 Q. Mr. Pride, do you have anything else to add to
8 your testimony here today?

9 A. I don't think so at this time.

10 MR. PADILLA: Pass the witness.

11 EXAMINER JONES: Mr. McMillan.

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1 CROSS-EXAMINATION

2 BY MR. McMILLAN:

3 Q. Good afternoon, Mr. Pride.

4 A. Good afternoon.

5 Q. I'm Seth McMillan. I'm representing Devon in
6 this matter.

7 Let's take a look at your Exhibit 1. You
8 can confirm for me that -- that Pride has no ownership
9 in the south half of 16, correct?

10 A. Correct.

11 Q. But your APDs were approved?

12 A. APDs were approved.

13 Q. I note -- if I follow the color coordination
14 correctly, it appears that Devon has quite a bit of
15 ownership in the vicinity here. Does Pride own anything
16 else in the neighborhood here?

17 A. Not in this colored area, no.

18 Q. How about anywhere else in, oh, Sections 8, 17,
19 20? Anywhere within the bounds of this particular
20 image?

21 A. Not in this area, no.

22 Q. How about within a number of miles of here?
23 Does Pride have any ownership?

24 A. We operate several wells all over Lea County,
25 several in the southern part of Lea County, as well as

1 the northern part of Lea County. I don't know how many
2 wells that would be in this area.

3 Q. Okay. Can you give us a rough estimate? There
4 were a lot of questions -- the reason I'm asking is
5 there were a lot of questions this morning about the
6 vicinity, about how close Devon's operations are from
7 the subject area here. Can you give us a
8 back-of-the-envelope estimate where Pride -- how far
9 away Pride might be operating wells from this project
10 area?

11 A. As far as miles? I really don't know how many
12 miles. It's not too awful far from here, the ones in
13 the southern part of Lea County. The ones in northern
14 Lea County are further away, of course.

15 Q. At the end of the day, can you in good
16 conscience say that you're operating near this project
17 area?

18 A. Depends on what you define as near.

19 Q. Okay. How would you define near? Within a
20 mile?

21 A. Well, no, not within a mile.

22 Q. Within ten miles?

23 A. I really don't know how many miles.

24 Q. Fair enough. We've established that. I'll
25 leave you alone on that point.

1 I believe Mr. Padilla asked you about
2 Pride's experience drilling and operating horizontal
3 wells in the Wolfcamp and the Bone Spring. I recall --
4 and if I'm misstating -- well, I recall your answer
5 being something along the lines of you have five
6 vertical wells not far from here, but I'm really
7 interested in the horizontal wells particularly in the
8 Wolfcamp and the Bone Spring. Can you name for me any
9 particular horizontal well Pride is currently operating
10 in the Wolfcamp or the Bone Spring?

11 A. We're not operating any currently in the
12 Wolfcamp or Bone Spring in this area.

13 Q. Okay. Is this essentially your first shot at
14 drilling and operating a Wolfcamp or a Bone Spring well
15 in this area?

16 A. In this area.

17 Q. Looking at your Exhibit 2 -- actually, we don't
18 even need the exhibit. You had described for us your
19 version of the events with respect to negotiations with
20 Devon. I just need to clarify. Were you suggesting
21 that Devon was threatening to strand your acreage, or --
22 was that your suggestion?

23 A. I didn't say the word "threaten."

24 Q. I know you did not. I was just asking if there
25 was the suggestion of some sort of threat to --

1 A. No. I mean Devon -- the email is what it is.
2 And what Devon is saying is that they were considering
3 drilling only a mile-and-a-half up to that half -- half
4 section line of Section 16 if we didn't sell to them.

5 Q. Okay. So looking back at your Exhibit 1, you
6 know, based on that conversation, did you ever consider
7 going lay-down up there in the north half of 16 and
8 trying to pool ConocoPhillips?

9 A. We looked at that, but based on the other wells
10 and the well production from the other wells in the
11 area, drilling east and west is not near as good as far
12 as total production and the reserves from -- as going
13 north and south.

14 Q. And who performed that analysis?

15 A. Our in-house engineers.

16 Q. Okay.

17 A. And I think Devon's expert might have testified
18 to the same thing this morning.

19 Q. Nonetheless, wouldn't it be true that had you
20 taken that approach, Pride would have had more working
21 interest in the proposed project area where -- just in
22 the north half of 16 than you do here?

23 A. If we had, but we didn't.

24 Q. Here, to clarify, you're looking at basically
25 50/50 ownership, correct?

1 A. Correct.

2 Q. You testified you received Devon's well
3 proposals just a couple of days after -- after they had
4 received yours? Was that the timeline?

5 A. After we had sent our well proposals, I think
6 it was two days afterwards.

7 Q. Right. And you testified that there had been
8 some communication and negotiation prior to the well
9 proposals being exchanged; is that correct?

10 A. We had some telephone conversations and email
11 exchanges.

12 Q. Okay. Isn't it true that you essentially
13 stopped communicating after receiving Devon's well
14 proposal?

15 A. Which one?

16 Q. These would be the well proposals received just
17 a couple of days after yours.

18 A. So that would be in February?

19 Q. Sounds right.

20 A. 28th?

21 Q. Yes, that's right.

22 A. I can't recall exactly, you know, all the dates
23 on as far as correspondence, but we talked a number of
24 times over the last six to eight months. It goes back
25 into 2017, in the fall.

1 Q. Well, I'm more curious about the time period
2 after the well proposals were exchanged, and I'm curious
3 about Pride's attempts to negotiate after that point
4 where each side had in front of them the corresponding
5 side's proposals. Did Pride ever respond to Devon's
6 well proposals?

7 A. Not in the form of a written response. I can't
8 recall whether we had a telephone conversation or not.
9 It's been a while back. It's been four months now.

10 Q. Do you recall Pride ever -- again, the time
11 frame was February 2018, correct?

12 A. Yeah, February 2018.

13 Q. Okay. So four months ago or so.

14 Did Pride ever make any sort of
15 counterproposal to what Devon had to offer in its formal
16 well proposal?

17 A. Not in the form of -- again, I can't recall all
18 of our telephone conversations, but there were numerous
19 ones. I don't recall that there was a written counter,
20 per se.

21 Q. And do you recall specifically any telephone
22 conversations you had with Devon in which any sort of
23 counterproposal offer or other resolution was discussed?

24 A. After the well proposal --

25 Q. Yes. That's the time period I'm curious about.

1 A. I don't recall. It's been several months.
2 We've had several conversations over the last several
3 months.

4 Q. I take it that you feel that Devon's well costs
5 and overhead rates are -- well, they're clearly higher
6 than what you folks have presented. But is it your
7 opinion that they're too high?

8 A. Yes.

9 Q. Did you ever make any sort of attempt to
10 negotiate those well costs and overhead rates once they
11 were in front of you?

12 A. We didn't negotiate in the form of a written.
13 We've done this before on numerous wells that we've
14 owned in some Devon wells, but that's what it is.

15 Q. And is what it is simply that you did not,
16 either in writing or by telephone, attempt to negotiate
17 with Devon? Is that true?

18 A. As I mentioned earlier, we didn't -- I didn't
19 send any written counterproposal to Devon addressing
20 those overheads rates. Whether we discussed it on the
21 phone, I don't recall that, but it's possible. We had
22 numerous conversations, but I don't recall that.

23 Q. Have you failed to -- I'll ask this as a
24 hypothetical. But had you failed to respond to
25 telephone calls or emails or written correspondence

1 seeking to further negotiate, would that be a good-faith
2 negotiation in your mind?

3 A. Well, it's a hypothetical.

4 Q. And the answer is?

5 A. And the answer is, like I said, we didn't give
6 a written counterproposal. We've had several telephone
7 conversations over the months. I don't recall exactly
8 all those conversations, but --

9 Q. So you don't specifically recall any
10 conversations after the well proposals were exchanged,
11 correct?

12 A. Again, I don't think there were, but it's been
13 several months ago.

14 Q. Let's look at your Exhibit 8. And these, of
15 course, are your well-proposal letters.

16 You testified on direct that ultimately the
17 18,000-per-acre offer that Devon made to you for your
18 acreage was, quote, "inadequate." Do you recall
19 testifying to that effect?

20 A. Yes. We did not accept their offer of 18,000.

21 Q. Right. Right.

22 And the reason being, you found it
23 inadequate?

24 A. Yes.

25 Q. That was based upon your analysis at the time?

1 A. Yeah. We -- we reviewed the reserves in the
2 area from the Bone Spring and Wolfcamp, and we didn't
3 want to accept the offer.

4 Q. Did you ever communicate to Devon that you
5 found that \$18,000-an-acre offer inadequate?

6 A. I don't think we ever put anything in writing
7 as far as on it, but I recall we did have a telephone
8 conversation on it.

9 Q. Do you recall that conversation?

10 A. It seems like we did. Again, we talked
11 numerous times about it, and so we said we weren't
12 interested in the offer. And so --

13 Q. Okay. Do you have a recollection of when that
14 18,000-per-acre offer was made by Devon to you?

15 A. Not exactly. I don't recall.

16 Q. Roughly in the time period around the -- the
17 end of February, maybe in March, after the well
18 proposals had been exchanged?

19 A. Again, I don't know. I don't recall exactly.

20 Q. Looking at your Exhibit 8, we see over and over
21 again with respect to all six of these proposals, that
22 while yes, you welcomed Devon to join the wells, the
23 second option was a cash bonus consideration of the
24 1,500 per net acre with a 1/8 royalty. Do you know how
25 that offer was calculated?

1 A. Again, going back -- we took a look at other
2 offers, what the going rate -- what we felt was the
3 going rate in the area. So that's probably what we
4 would have done, because it's been a while back, and
5 looked at what other companies were offering and what's
6 been paid.

7 **Q. Within a fairly short time frame, no more than**
8 **four months, you made a \$1,500-per-acre offer and**
9 **rejected an \$18,000-per-acre offer, correct?**

10 A. Yes.

11 **Q. Why such a differential?**

12 A. Well, I mean, I can only evaluate what offer
13 was presented to us, and that's what we did. And we
14 decided not to accept that. Devon can do the same
15 thing. They can either participate or accept what we
16 offer. The option -- they've got options.

17 **Q. Sure. If an artificially low offer is made, is**
18 **that good-faith negotiation?**

19 A. I don't feel like it's an artificially low
20 offer.

21 **Q. Were you at the time that you made this offer,**
22 **February 26th, 2018 -- do you feel that Pride was truly**
23 **up to speed of valuation in this area of New Mexico?**

24 A. I think we were.

25 **Q. And that that \$1,500-an-acre offer was**

1 **appropriate?**

2 A. Yes.

3 Q. But shortly thereafter, you rejected 18,000 an
4 **acre, correct?**

5 A. We did -- we did -- I don't know exactly when
6 it was, but we did reject that.

7 Q. As to your AFEs, you'll agree with me that AFEs
8 **are just estimates, right?**

9 A. That is correct.

10 Q. And will you also agree with me that one of the
11 **factors that the Division will look at in making a**
12 **determination here is any differential between the**
13 **parties' AFE numbers?**

14 A. What was the question again?

15 Q. Sure.

16 MR. McMILLAN: I think I can do it again.
17 I don't need you (indicating) to read it back.

18 Q. (BY MR. McMILLAN) Would you agree with me that
19 **one of the factors that the Examiners of the Division**
20 **will look at here in deciding who gets to do their**
21 **development plan is any differential between the**
22 **parties' corresponding AFEs?**

23 A. Oh, yes.

24 Q. Yet AFEs are just estimates, again, correct?

25 A. Correct.

1 **Q. Your estimates, you said, were based on bids**
2 **you received, correct?**

3 A. Yes.

4 **Q. When were those bids received?**

5 A. Those bids were received -- and I'll let Steve
6 Morris, our engineer, answer those questions. He
7 obtained those bids, so he can better answer that
8 question.

9 **Q. Okay. Have any of those bids been reduced to**
10 **an enforceable contract as of today?**

11 A. No, no contract.

12 **Q. No contracts in place at all?**

13 A. No, no contract.

14 **Q. So, again, your AFE estimates are based on bids**
15 **that would have been received prior to -- certainly**
16 **prior to February 26th, 2018, correct?**

17 A. Yeah. I mean, there and even since, to get
18 current numbers to be sure our AFEs are in line.

19 **Q. Right.**

20 A. But, I mean, they're estimates. Yes. We can't
21 contract to someone until this hearing is finalized.

22 **Q. Okay. Have you updated your AFE numbers based**
23 **on more recent information than February of 2018?**

24 A. No.

25 **Q. No need? Prices are staying flat as far as you**

1 **know?**

2 A. No. We felt that the AFE numbers that we
3 presented are real close to the bids that we did
4 receive.

5 Q. Should I ask your engineer about the experience
6 of each of the contractors from whom you've received
7 bids?

8 A. Yes.

9 Q. Better to ask him?

10 A. Yes. Uh-huh.

11 Q. We note that you hired a consultant in this
12 case. Does Pride have on staff dedicated engineers?

13 A. Yes. We have -- in our in-house, we've got
14 probably close to 82 years' experience as far as on
15 drilling and acquisitions and all. What we do whenever
16 we drill wells, like I said earlier, is that we'll go
17 out and we'll -- we will identify and determine who are
18 some of the best people in the area as far as on
19 consultants, the drilling engineer, petroleum engineers,
20 the drilling contractors, the geosteering, all the way
21 down the line. And we'll bid them out and be sure we're
22 getting the lowest price and the best quality for that
23 area.

24 Q. You heard this morning that Devon, as a matter
25 of course, has on-site engineers tracking the well

1 during drilling, completion, et cetera. Will anyone
2 with Pride be on-site monitoring these wells during
3 these critical stages?

4 A. Yes.

5 Q. And who is that going to be?

6 A. I'll let Steve Morris answer that. Again, he's
7 a petroleum engineer. He kind of handles that part of
8 it.

9 Q. Fair enough.

10 Just to clarify, if we can look at Exhibit
11 10, it's got kind of a schematic of Devon's surface
12 locations, but you'll confirm for me that you heard the
13 testimony this morning that Devon intends on having a
14 single pad with wells running both north and south from
15 that location, correct?

16 A. Yes. We prepared this plat based off the
17 surface-hole locations that were presented in the well
18 proposals to us.

19 Q. Okay. And then as to Exhibit 11, I see a
20 drilling order. What's the -- what's the schedule here?
21 When do you intend to drill the first of these six
22 wells?

23 A. Well, we don't have a specific date right now
24 when the first well will be spud, so we'll finish
25 getting our bids. And it depends on the outcome of this

1 hearing, of course. So it'll be within the next several
2 months. But we don't have a specific date, to answer
3 your question.

4 **Q. Do you have a drilling contract in place so you**
5 **can get a rig out there in the next several months?**

6 A. Again, we don't have a drilling contract
7 because we can't sign a contract until this hearing is
8 determined. I'll let Steve Morris refer to that.

9 **Q. Would you describe your plan to get this first**
10 **well drilled in the next several months as -- at this**
11 **point, given the lack of contracting, is it**
12 **aspirational?**

13 A. No. Again, I'm going to refer that to Steve
14 because he's the one that -- he can answer that
15 question.

16 **Q. I will go to Steve with those questions.**

17 Do you know anything about the particulars
18 of the frac job that Pride would expect to use on these
19 wells?

20 A. That'll be a Steve Morris question.

21 **Q. And do you have an opinion as to whether there**
22 **is any dispute as to the geology in Sections 16 and 21**
23 **as between the parties?**

24 A. Specifically, in Section 16, where we own, we
25 don't have any dispute on geology.

1 Q. Do you have any dispute as to what you heard on
2 Section 21?

3 A. Again, we don't own any interest in Section 21,
4 so I can't speak to that.

5 Q. I hate math. I went to law school to avoid
6 math, but I'm afraid we have to do a little bit of math
7 here. When I look at your well-proposal letters --

8 And these are all one-mile wells, correct?

9 A. Yes.

10 Q. You heard the numbers this morning, the AFEs
11 for Devon's proposed Wolfcamp and Bone Spring wells,
12 correct?

13 A. Yes.

14 Q. Those are two-mile wells, right?

15 A. That's what they're proposing.

16 Q. Now, if I do a little bit of math here -- and
17 I'm looking at your total completed well costs --
18 estimated, of course -- for, let's say, the 501H. Let's
19 start there. We can end there, too. I see a total of
20 6,672,000, correct?

21 A. Yes.

22 Q. That's for a one-mile well. Say you wanted to
23 go two miles, you double that. Aren't we looking in the
24 neighborhood of 13 million-plus? Just double 6,672,000?

25 A. We're not drilling two-mile horizontals. We're

1 proposing one-mile in the Bone Spring.

2 Q. Right.

3 But what I heard this morning is quite a
4 bit of criticism of Devon's AFE numbers. So what I want
5 to establish is that if I take your one-mile well,
6 double your proposed well costs, that's exceeding the
7 amounts that Devon is proposing for two-mile wells,
8 correct?

9 A. I'm going to let our petroleum engineer answer
10 that. He can probably answer that question.

11 Q. Okay. We can go back to that.

12 Let's talk about your takeaway capacity
13 here. First of all, for your saltwater disposal, how
14 much do you anticipate these wells producing with
15 respect to salt water?

16 A. I'll let Steve answer that as well. But as far
17 as on -- we have a current saltwater disposal well in
18 place.

19 Q. Right.

20 A. If we need additional disposal, we can drill a
21 second disposal well, if we need it.

22 (Examiner Brooks exits the room.)

23 Q. Well, it seems to me that the line of
24 questioning I'm about to tumble down is best left for
25 your engineer, and that's all I have for you this

1 **afternoon. Thank you.**

2 EXAMINER JONES: Mr. Lowe?

3 CROSS-EXAMINATION

4 BY EXAMINER LOWE:

5 **Q. Good afternoon, Mr. Pride.**

6 A. Good afternoon.

7 **Q. Just a few quick questions for you.**

8 You indicate this is your first time
9 drilling Bone Spring wells and Wolfcamp in this area?

10 A. Yes.

11 **Q. And are these wells -- well, what wells do you**
12 **have in the closest vicinity, and are they vertical?**

13 A. In Lea County, we have numerous wells that are
14 vertical wells. But the closest ones, to answer your
15 question, are on this lease, the closest vertical wells.

16 **Q. In what formation are those wells?**

17 A. Those are producing from the Delaware.

18 **Q. The Delaware.**

19 A. Uh-huh.

20 **Q. Okay. Okay. That's all I've got for now.**

21 **Thank you.**

22 EXAMINER JONES: I have questions, but I'm
23 sure Mr. Brooks does, too.

24 Can we take a quick break here, until he
25 gets back at least?

1 (Recess, 2:47 p.m. to 2:58 p.m.; Examiner
2 Brooks present.)

3 EXAMINER JONES: Let's go back on the
4 record.

5 Let me ask questions, then you can ask
6 questions.

7 EXAMINER BROOKS: Sure. Sounds like a good
8 idea.

9 CROSS-EXAMINATION

10 BY EXAMINER JONES:

11 Q. Mr. Pride, who is John Pride?

12 A. John Pride? He's the co-owner of Pride Energy
13 Company.

14 Q. I kind of figured that might be the case.

15 Let's see here. I've got to make sure I
16 cover all the bases.

17 So you would consider the only pooled party
18 to be Devon; is that correct?

19 A. Yes.

20 Q. So Devon is a working interest owner?

21 Although, Devon lists -- they told us this morning,
22 they're listing the south half of Section 16 as
23 81-and-a-quarter. So probably there are some overrides
24 involved or something.

25 A. On our lease, I know there are no overrides.

1 It's just the State of New Mexico. And there may be
2 over- -- I don't know what Devon did with V-F, who they
3 got their interest from.

4 Q. Okay. But you're not -- you had to identify
5 all the interest owners in Section 16, south half?

6 A. Yes.

7 Q. So it's only -- as far as you're concerned,
8 it's only Devon; is that right?

9 A. Well, we also notified V-F.

10 Q. Oh, you did?

11 A. Yes. Yes.

12 Q. Okay. So is there proof of notice in here
13 somewhere, because I didn't see where we admitted that
14 yet? Maybe we're going to later.

15 Okay. Okay. So it's all state lands. Are
16 you listing two tracts or three tracts?

17 A. On our lease?

18 Q. Well, no, on the potential pooled well that
19 you're trying --

20 A. Two tracts would be our 240 acres that's in the
21 north half and then the tract that's located in the
22 south half.

23 Q. Okay. So two tracts and all state.

24 But the tract in the south -- we heard this
25 morning that the south half of -- well, actually, on at

1 least one of the -- well, two of these potential wells
2 you're talking about is in the Cotton Draw Unit, but as
3 far as you're concerned, it's all one tract --

4 A. That is correct.

5 Q. -- because it's the same, exact ownership?

6 A. Same ownership.

7 Q. And Devon would have to take care of the
8 unit --

9 A. Yes.

10 Q. -- for their half of -- their half of the well?

11 A. (Indicating.)

12 Q. Okay. And you would have to do a com
13 agreement, though, also, right? Or is it all -- it's
14 all one state lease?

15 A. It's all state lease in Section 16.

16 Q. It's all one state lease?

17 A. No. There's -- there's -- there would be two
18 state leases, all 240 acres, and then the state lease
19 that's in the south half. But there is no --

20 Q. Okay. So you still have to do a com agreement
21 with the State Land Office?

22 A. Okay. I thought you meant with the BLM. But
23 no, there wouldn't be any BLM acreage here.

24 Q. Except the BLM is part of the unit.

25 But you would still have to do a com

1 **agreement with the --**

2 A. Yes.

3 **Q. -- State Land Office?**

4 A. Yes. Yes.

5 **Q. And you haven't started that yet?**

6 A. Well, no, not yet. We're going --

7 **Q. You've got your APDs to drill, but you haven't**
8 **started the com agreement yet?**

9 A. Yeah. We're going to do that shortly, once
10 this hearing is finished.

11 **Q. Any lease expirations involved here?**

12 A. No. It's held by production. We're producing
13 the -- we've got five wells on that lease.

14 **Q. Same way with the south half of Section 16?**

15 A. Well, that is Devon's lease, and that's held by
16 production, from what I understand, from that unit down
17 there.

18 **Q. Gotcha.**

19 **You mean the Cotton Draw Unit?**

20 A. No. It's the Delaware Unit. That's the way I
21 understand it. I don't have all my land records right
22 here before me, but that's --

23 **Q. Okay. But anyway, there's not a real rush to**
24 **jump out there and drill?**

25 A. No. There is no lease-expiration issue.

1 Q. Okay.

2 EXAMINER JONES: So we haven't admitted
3 notice Exhibits yet.

4 MR. PADILLA: Do you want me to? I can do
5 it right now.

6 EXAMINER JONES: Well, I don't know if I
7 asked the landman the questions.

8 MR. PADILLA: Let me hand you what we have
9 marked as Exhibit 19, Mr. Examiner. The last page of
10 that is a letter that we sent on Friday of last week to
11 Cimarex. They did not appear to be on the -- they're an
12 offset operator somewhere, another farm-out, and we
13 weren't aware. But we did send Cimarex notice, and
14 so -- the three Delaware applications that are not
15 involved. But we did not send Cimarex notices as an
16 offset operator for these six applications. We did that
17 on Friday.

18 EXAMINER JONES: Okay.

19 MR. PADILLA: I think everybody else --
20 there should be a list there of persons we notified.

21 EXAMINER JONES: Yeah. It says "return
22 receipt received from Cimarex," but --

23 MR. PADILLA: That was -- that was for the
24 Delaware ones.

25 EXAMINER JONES: Okay. There were some

1 Delaware wells?

2 MR. PADILLA: In other words, we filed nine
3 applications, three Delawares, three Bone, three
4 Wolfcamp.

5 EXAMINER JONES: Oh.

6 MR. PADILLA: Cimarex got notice of the
7 Delaware, but we didn't send any on these six
8 applications.

9 EXAMINER JONES: Because of the depth
10 severance going on in the south half of 16?

11 MR. PADILLA: I'm not sure. But to be
12 safe, we did send some on Friday. And that's the last
13 page. I think that letter is dated June 8th.

14 EXAMINER JONES: Yes, June 8th.

15 MR. PADILLA: I sent a cover letter
16 explaining why we -- why we sent it late. And also,
17 obviously, that says it's going to be heard -- this case
18 is going to be heard June -- today. And so I had to
19 explain why they were getting late notice.

20 EXAMINER JONES: Okay. So most of these
21 people obviously are surrounding owners and not -- you
22 kind of set a conglomeration notice that included the
23 Delaware.

24 MR. PADILLA: Well, they're all offsets to
25 almost every proration unit. So we did send a

1 conglomeration because we sent out six applications at
2 once, and everyone got six applications in the same
3 package.

4 EXAMINER JONES: Okay. Okay. And you move
5 to admit Exhibit 19?

6 MR. PADILLA: Yes. And we also move to
7 admit Exhibits 1 through 12.

8 EXAMINER JONES: Any objection to 1 through
9 12 and 19?

10 MR. McMILLAN: No objection to 1 through
11 12, but can we just take a quick look at 19? We don't
12 have a copy.

13 EXAMINER JONES: Oh, you don't have a copy?

14 MR. PADILLA: Oh, I'm sorry.

15 MR. McMILLAN: I know he didn't have
16 enough. I can take a look at this one.

17 EXAMINER JONES: Exhibits 1 through 12 are
18 admitted, of Pride Energy.

19 (Pride Energy Company Exhibit Numbers 1
20 through 12 offered and admitted into
21 evidence.)

22 MR. McMILLAN: Who exactly am I crossing on
23 this? Is it Mr. Padilla? I just have a couple of
24 questions about the exhibit.

25 First off, were the overrides notified?

1 MR. PADILLA: No --

2 MR. McMILLAN: Second of all --

3 MR. PADILLA: -- unless they happen to be
4 in there. V-F Petroleum is --

5 MR. McMILLAN: Right, right, right. They
6 could have multiple sharing capacities, so to speak.

7 But Cimarex, to be clear for the record,
8 was only notified on Friday? Is that what you said,
9 Friday?

10 MR. PADILLA: Yes.

11 MR. McMILLAN: That's all I have.

12 I don't object to the exhibit -- admission
13 of exhibit, but it seems to me that notice isn't
14 complete here as to --

15 EXAMINER JONES: To the overrides?

16 MR. McMILLAN: -- Pride's application.

17 EXAMINER BROOKS: I have a couple of
18 questions.

19 CROSS-EXAMINATION

20 BY EXAMINER BROOKS:

21 Q. First of all, are there overrides under the
22 state lease in Section 16 -- under the state leases in
23 Section 16?

24 MR. PADILLA: There is in north half of the
25 acreage that Pride owns, and I'm not sure about the

1 south half. Maybe Mr. Pride can --

2 THE WITNESS: Yeah. I'll answer that. But
3 on our lease -- there are no overrides on our lease.

4 Q. (BY EXAMINER BROOKS) On the north-half lease?

5 A. On the north-half lease, 240 acres of our oil
6 and gas lease.

7 Q. What about the south-half lease?

8 A. The south-half lease, I think there was --
9 V-F Petroleum reserving an override, make a deal with
10 Devon. I'm going by memory.

11 Q. You're not aware of any other overrides on the
12 lease?

13 A. I'm not aware.

14 Q. Okay. Thank you.

15 RE CROSS EXAMINATION

16 BY EXAMINER JONES:

17 Q. Mr. Pride, the two state leases in question --
18 I assume there are two leases in question here. The
19 record title owners of those -- are you the record title
20 owner of the north-half lease? In other words, you've
21 been -- either got it originally, or you were assigned
22 it?

23 A. We got it originally.

24 Q. Oh, wow. Okay. When was that?

25 A. Probably about 18 years ago.

1 Q. Okay. And the south-half record title owner,
2 you'll have to know that for the com agreement?

3 A. Yes. Yes. And Devon took an assignment from
4 V-F Petroleum.

5 Q. Okay. Devon is the -- assigned from V-F?

6 A. That's right.

7 Q. Okay.

8 EXAMINER JONES: So we decided we're going
9 to admit Exhibit 19, but you still have a question about
10 whether the overrides -- any additional overrides?

11 EXAMINER BROOKS: We did not establish
12 necessarily who the override owners are in the south
13 half of the 16 lease. If it becomes necessary, I will
14 ask to recall the land witness for Devon to clarify that
15 because -- since it's their lease, I assume he knows.

16 MR. PROUT: Yes, sir. V-F Petroleum is the
17 only one that owns an override.

18 EXAMINER BROOKS: The only override in
19 Section 16.

20 MR. PROUT: Yes, sir. And the part --
21 Conoco lease. I'm not sure.

22 EXAMINER BROOKS: I'm sorry. I didn't
23 hear.

24 MR. PROUT: The 480 that we're talking
25 about, on that 160 on the far east side, I think Conoco

1 may have --

2 EXAMINER BROOKS: But you're not
3 proposing -- nobody is proposing any wells on the
4 Conoco --

5 MR. PROUT: No, sir. But I just want to be
6 clear that I'm not talking about all of 16. But the 480
7 acres we're talking about, V-F Petroleum is the only
8 override.

9 EXAMINER JONES: That means V-F has -- you
10 said there was 81.25 NRI. So V-F -- if they had
11 5 percent override, that would be 6-1/4. So we don't
12 know how much their override is, do we?

13 MR. PROUT: 6-1/4.

14 EXAMINER JONES: 6-1/4. There you go. It
15 makes sense.

16 Okay. Exhibit 19 is admitted for Pride.
17 (Pride Energy Company Exhibit Number 19 is
18 offered and admitted into evidence.)

19 EXAMINER JONES: And let me continue on
20 here. Let me make sure I've got everything.

21 **Q. (BY EXAMINER JONES) Are you proposing any wells**
22 **at nonstandard locations?**

23 A. No.

24 **Q. All six wells will be standard locations?**

25 A. Uh-huh.

1 Q. Okay. And the pool that you listed for the
2 Wolfcamp -- or the Bone Spring at least, Paul Kautz
3 assigned that pool?

4 A. Yeah, he did.

5 Q. So it's possible he'll use the same pool if he
6 approved these other wells, or he would extend a wildcat
7 pool one way or the other. Probably wouldn't extend a
8 wildcat pool, but he would -- if this pooled is named,
9 it's an established pool.

10 A. Yes. Yes.

11 Q. Okay. So you'll do the com agreement?

12 A. Yes.

13 Q. Okay. The depth range that you're listing for
14 Devon ownership in the south half, we didn't ask Devon
15 about that, but you said -- you said, in your exhibit
16 that we just admitted, that it would be 8,600 feet to
17 13,364 feet. Okay. You're proposing to pool them, so
18 you must know whether that covers the whole Bone Spring
19 and the Wolfcamp?

20 A. That is correct. In checking the records, they
21 own the rights to the Bone Spring and the Wolfcamp in
22 the south half.

23 Q. So all of the Bone Spring and all of the
24 Wolfcamp?

25 A. Yes.

1 Q. Okay. That's all the questions. Thank you
2 very much.

3 RECROSS EXAMINATION

4 BY EXAMINER BROOKS:

5 Q. Okay. What is the royalty under state lease?

6 A. It's a 1/6 royalty rate.

7 Q. 1/6 royalty rate. And what's that?

8 A. 16.66.

9 Q. And so if you had leased -- if Devon -- if
10 Devon had accepted your offer, would that be equivalent
11 to -- they would get an override if they took the 1,500,
12 or they would not get an override if they took the
13 1,000 -- I mean the other way around. They pay you
14 1,500, plus a small override, or 1,000 with no override.

15 A. Our offer is that we would pay them if they
16 wanted to sell -- assign their interest over.

17 Q. Well, yeah. But you're offering to pay them?

18 A. Yes.

19 Q. But you were offering to pay them 1,500, but
20 that would be -- I'm not -- what I'm confused about is:
21 Was the 1,500 only offered if they were willing to
22 deliver net revenue interest, which was greater than the
23 lease royalty, greater than your options?

24 A. The options that were set out in our well
25 proposal to them was 1,500 and if they can deliver an

1 87.5 percent, or \$1,000 if they can deliver an 81.25
2 percent.

3 **Q. Actually, that didn't involve your lease**
4 **because your lease you own?**

5 A. That's right.

6 **Q. So you wouldn't be buying an interest. You'd**
7 **be buying the other leases in there.**

8 A. That's correct. That's correct.

9 **Q. Okay. You said that \$16,000 offer that they**
10 **made to you, you said you didn't remember when that**
11 **was -- when that occurred?**

12 A. I don't remember the exact date on it. I
13 remember the offer, which that's when we did our
14 evaluation and we declined the offer. But I don't
15 remember the exact date on it.

16 **Q. Now, what was the sequence of events in terms**
17 **of their offer, your offer and your re-evaluation?**

18 A. Well, I mean, we had numerous telephone
19 conversations over several months there going back to
20 maybe even the fall of last year, 2017. And they made
21 their offer -- again, I can't remember the date on it,
22 but they made their offer, and then we made our well
23 proposal to them on February 26th of 2018.

24 **Q. But they made their offer before you made**
25 **your -- before your well proposal, right?**

1 A. I think it was before, but it -- I mean, it was
2 somewhere in that same time frame when we were having
3 telephone conversations and some emails and that kind of
4 thing.

5 **Q. Was your offer made before or after their --**
6 **your \$1,000 or \$1,500 offer? When was that made in**
7 **relation --**

8 A. I mean, it was all pretty close to the same
9 time, if I recall. I don't have the dates.

10 **Q. But you don't remember the order of events?**

11 A. I don't remember the exact dates on what came
12 first, but, I mean, it was all -- you know, it was all
13 in telephone negotiations and telephone conversations,
14 and then I think we might have put it in an email, I
15 think it was.

16 **Q. Okay. Thank you. That's all I have.**

17 EXAMINER JONES: Anybody have any more
18 questions for this -- we won't let him off easy here
19 (laughter).

20 REDIRECT EXAMINATION

21 BY MR. PADILLA:

22 **Q. Mr. Pride, Mr. Brooks just asked you a**
23 **question. You made a proposal to Devon on February**
24 **26th, correct?**

25 A. Yes.

1 Q. Of this year?

2 A. Yes.

3 Q. And then you sent it by e-mail?

4 A. We sent it by e-mail and also by certified
5 mail.

6 Q. And two days later, you got their proposal?

7 A. Yes.

8 Q. And when did they file an application for
9 compulsory pooling?

10 A. Just shortly over 30 days after we received
11 their well proposals.

12 Q. Did you receive any communication from Devon
13 during that 30-day period, more or less between the time
14 that they sent their proposal to you and the filing of
15 their compulsory pooling application?

16 A. No.

17 Q. So there was no negotiation about your proposal
18 from Devon to you?

19 A. After they sent their -- their well proposals
20 to us and whenever they filed their pooling, there
21 wasn't.

22 MR. PADILLA: That's all I have.

23 MR. McMILLAN: And I just have a quick
24 follow-up. I'm sorry.

25 EXAMINER JONES: Go ahead.

1 RECROSS EXAMINATION

2 BY MR. McMILLAN:

3 Q. I thought your testimony was clear that you
4 couldn't recall the communications after the well
5 proposals were exchanged.

6 A. Well, I don't -- I didn't specify what date
7 because I don't know what exact date.

8 Q. Right.

9 At the same time, as I recall, you were not
10 able to specifically recall any particular
11 communication, regardless of the dates. Is it all of a
12 sudden that you're recalling absolutely there was not
13 communication during that 30-day period?

14 A. Are you referring to the --

15 Q. I'm sorry. I'll clarify. The time period
16 after the well proposals were exchanged, then Devon
17 filed its applications, during that time period, roughly
18 30 days, you're now testifying that you're certain there
19 were no communications from Devon?

20 A. I don't recall that there were any. I'll say
21 it that way.

22 Q. Okay. I just wanted to clarify for the record
23 that it's a lack of recollection. You're not
24 testifying -- are you testifying that Devon did not
25 touch base with you during that 30-day period?

1 A. I don't recall that they did. No.

2 **Q. That's the clarification I needed. Thank you.**

3 EXAMINER JONES: Thank you, Mr. Pride.

4 EXAMINER BROOKS: I'd like to break before
5 our next witness.

6 EXAMINER JONES: Yeah. Let's take a quick
7 break.

8 (Recess, 3:20 p.m. to 3:28 p.m.)

9 EXAMINER JONES: Let's go back on the
10 record and continue with Pride's case.

11 MR. PADILLA: Mr. Examiner, we'll call
12 Steve Morris at this time.

13 STEVE MORRIS,
14 after having been previously duly sworn under oath,
15 was questioned and testified as follows:

16 DIRECT EXAMINATION

17 BY MR. PADILLA:

18 **Q. Mr. Morris, will you please state your full**
19 **name?**

20 A. Steve Morris.

21 **Q. And where do you reside?**

22 A. Calgary, Alberta.

23 **Q. And what is it that you do?**

24 A. I'm a petroleum engineer. I do wells from
25 start to finish for small and midsize operators all

1 through the Permian.

2 Q. Have you testified before the Oil Conservation
3 Division as a petroleum engineer in the past?

4 A. Yes, I have.

5 Q. And your credentials were accepted as a matter
6 of record?

7 A. Yes, they were.

8 Q. Are you familiar with the applications that are
9 before the Division?

10 A. Yes, I am.

11 Q. And have you prepared exhibits for introduction
12 here today?

13 A. Yes, I have.

14 Q. Let's, first of all, ask you, for the benefit
15 of the Examiners, about your background. Where did you
16 receive your engineering degree?

17 A. I got my petroleum -- Bachelor of Science in
18 Petroleum Engineering at Gordon University in Florida,
19 and I got my Master's in drilling engineering from the
20 same university. I've been in the oilfield business 27
21 years. I've worked from roughneck to tool driller, tool
22 push, company man, directional driller, engineer and
23 project manager on a global scale. I've worked in North
24 America, both in Canada and the U.S. I've worked in
25 China, India, offshore, Nigeria and Western Africa.

1 **Q. Have you drilled any wells in southeast**
2 **New Mexico?**

3 A. Many wells in southeast New Mexico. That's
4 predominantly where I've been drilling since 2011.

5 **Q. And can you tell us approximately how many Bone**
6 **Spring wells you have drilled?**

7 A. Bone Spring wells, in the past seven years, is
8 probably in the measure of about 250.

9 **Q. And how about Wolfcamp wells?**

10 A. Wolfcamp wells -- I would say somewhere in the
11 vicinity of 15 to 20 Wolfcamp wells.

12 **Q. When you say you -- you do work for smaller**
13 **companies, what is the scope of your work?**

14 A. A general overview would be that I liaison with
15 geology. They pick where the target formation is going
16 to be, and from there, I go and get the land surveys
17 done. I pick the surface location. I contract with all
18 the vendors, have the location built, drill the well --
19 design the well, drill the well, complete the well. And
20 once it's on production, I turn it back over to the
21 operator at that point. So pretty much from the
22 construction stage to production, I take on all that
23 role there and then turn it over to the operator once
24 the well is producing.

25 MR. PADILLA: We tender Mr. Morris as a

1 petroleum engineer.

2 EXAMINER JONES: Any objection?

3 MR. McMILLAN: None.

4 EXAMINER JONES: So qualified.

5 **Q. (BY MR. PADILLA) Mr. Morris, tell us briefly**
6 **what you've done in this case for Pride Energy and how**
7 **long you've been working in association with these**
8 **applications.**

9 A. With these applications, Pride approached me
10 and turned over the approved APDs, the AFEs, the pooling
11 application that Pride had made and the pooling
12 application Devon made. I did a review and assessment
13 on that.

14 From there, I created some wellbore
15 schematics, looked at offset production data, did a
16 comparison on what do the economics look like on a
17 one-mile lateral as opposed to a two-mile lateral. What
18 are the mechanical risks when faced with a one-mile
19 lateral as opposed to the mechanical risks of a two-mile
20 lateral? Are there any geological risks or geological
21 mechanical risks associated between the two differences
22 in the laterals?

23 **Q. Now, you don't have any problem with the**
24 **geology presented by Devon this morning?**

25 A. No, I don't.

1 Q. You don't.

2 So let's go jump into these exhibits, and
3 let me direct your attention to Exhibit 13. And that
4 has the Bone Spring well schematics, right?

5 A. That is correct.

6 Q. Tell us -- let's just go to the first one,
7 which is the 501H well, and tell us what you have
8 compiled from --

9 A. The 501, the 502 and the 503 are all going to
10 be the same. They're generic wellbore schematics based
11 on the depths for the formations for each one of the
12 surfaces. So they'll be pretty much aligned with each
13 other.

14 From here, we've designed -- designed where
15 our surface casing will be set, intermediate casing and
16 long string casing.

17 The frac that's been put on to here is more
18 so a placeholder than anything because it's based on
19 linear rather an actual positioning of where we're going
20 to put the stages with the perforations. Based on --

21 Q. Why would you do that?

22 A. This is just telling me that I want to do 30
23 stages, and it's because of how much sand I would like
24 to put away in that formation. I pick 30 stages with
25 four sets of perforations. Then it's just mathematical.

1 Thirty-seven feet is what it turns out to be for that
2 length of lateral.

3 When we actually drill, we see the data
4 from the mud logs, the gamma logs, resistivity, and any
5 other electric logs we decide to do. These perforations
6 will change. And that'll be liaised with geology.
7 We'll either have similar rock properties. We may want
8 to shorten a stage and put it inside of that rock
9 property or make a stage longer, depending on what the
10 changes are.

11 So this is just a guide for us to start
12 with saying: This is how much sand we would like to put
13 away based on per foot, and this is what it would look
14 like in a practical, real fake world. There are no
15 changes with the geology. Because there will be changes
16 in the geology and lithology as we're drilling through
17 it, these perforations will change.

18 **Q. Okay. So have you done bidding to figure out**
19 **well costs in comparing --**

20 A. Yes. My bidding process is a little bit
21 different. I haven't -- I didn't necessarily take bids
22 for this well. Because I work for multiple operators, I
23 have bids coming in weekly. So my bids are always
24 up-to-date as possible. Are they reflected in the AFE
25 that's two months old? No. Those are bids that were

1 two months old that I had at that time. Obviously, new
2 bids are coming in. And then there is variation, and in
3 the last two, three months, there's been some variation.
4 We have seen well costs going up. Steel costs have gone
5 up dramatically, so casing costs are going -- are rising
6 quite drastically, and getting casing is becoming quite
7 difficult.

8 With that being said, the sooner we drill
9 these wells, the better off we're going to be on looking
10 at what our economics are, because we can predict out
11 ten days or 20 days or 30 days. Trying to predict out
12 18 months from now is going to be pretty tough. We know
13 that the cost of vendors and the cost of drilling are
14 rising incrementally, but they're not rising linear with
15 the price of oil. They're actually rising
16 exponentially. So our ROIs are actually getting worse
17 as the oil price rises because the cost of vendors is
18 going up faster than what the price of oil is. So
19 trying to predict out 12 months or 18 months is going to
20 become very difficult.

21 That being said, with the permits in hand
22 right now, as soon as -- if we were granted at this
23 forced-pool hearing, I am ready to go within a week's
24 notice to start drilling location and start drilling
25 wells. I have enough vendors in place and vendors that

1 I use consistently with other operators, so my pool and
2 selection is very easy. And as far as contracts that I
3 know was mentioned earlier, they don't need a contract
4 with Pride. They have a contract with Mojo Energy
5 Group, and they're going to do it for a set price. I bid
6 out jobs based on -- if I'm running 16 rigs, this
7 cementer is going to get 16 jobs. So I can get a better
8 price than even some of the larger operators who run six
9 rigs because I have 16.

10 Again, with the costs, the AFEs that have
11 been provided by Devon, I'm not going to touch on what I
12 think of those costs just yet. Those AFEs are going to
13 be irrelevant. They're no good whatsoever because they
14 don't have any permits in place.

15 Now, if you login on the AFMSS system,
16 which nobody here has done yet on their side, it will
17 tell you what state the permit is in. And from there,
18 you can gauge on how many other processes there are on
19 when it's going to be that you can actually get the
20 permit. I deal with the BLM on a daily basis for
21 multiple operators, and currently it's 12 to 18 months
22 to get a permit. And with the backlog they have with
23 surface, even though on-sites are conducted, it's taking
24 them up to 90 days to input the data from the on-site
25 into the AFMSS system. So they are very far behind

1 right now.

2 That would push these wells out one year
3 from now. That AFE is not going to be any good for one
4 year from now. It would have to be revised, and this
5 hearing is based on what that AFE is current.

6 The Bone Spring AFEs can't be drilled for
7 that \$4.9 million. They cannot effectively be drilled
8 and fracked.

9 **Q. What happens if you do drill a well to that**
10 **price?**

11 A. You could drill the well for that price, but
12 you cannot effectively fracture and complete it.
13 Currently, on a one-mile lateral, using 1,200 pounds per
14 foot, which they stated they wanted to use 1,500 pounds
15 per foot, the cheapest bid that we have is 1.1 million
16 for a one-mile lateral at 1,200 pounds per foot. At
17 1,500 pounds per foot, just the cost on the sand alone,
18 that would put that up to \$1.4 million for a one-mile
19 lateral to be able to be fracked. Using the map that I
20 was given earlier, let's double it, and we have \$2.8
21 million to do a two-mile lateral frac. So their AFE of
22 1.3 --

23 **Q. What did the --**

24 A. 1.3.

25 So you will not drain that acreage properly

1 with \$1.3 million a frac going to a two-mile lateral.
2 You would need two wells in every -- in every tract that
3 you were drilling in in order to be able to drill it
4 effectively using that small of a frac. So the AFE just
5 on that portion of itself is low by about \$1.3 million.

6 Q. So are you saying that you would leave oil in
7 place if you don't --

8 A. Absolutely.

9 Q. -- correctly?

10 A. Absolutely. With the frac coming in at that
11 cost, there would be a lot of oil left in place.

12 Q. You heard Devon this morning talking about they
13 have contracts with vendors somewhere, and they seem to
14 have like a cookie-cutter price. Is that realistic in
15 your view?

16 A. I have seen numerous times in the Permian
17 Basin, especially when I first started conducting
18 business down here, the same answer we got today.
19 That's the same AFE that I got from so-and-so or
20 so-and-so. That doesn't mean it's any good. That
21 doesn't mean it's a valid number. Where did it come
22 from? Just because someone else gave you an AFE at that
23 value, it doesn't mean that it's true. And I found this
24 out when I started putting things out to bid and going,
25 Well, this is what the actual cost is based on bids.

1 And so this number that everyone's throwing out, saying,
2 "Well, I'm going to do it for this and this," that's not
3 an accurate number. Just because someone else gives you
4 an AFE doesn't mean you turn around and do it.

5 I think it was done in haste, along with
6 everything else that has been done on this. It was done
7 in haste to counter what you guys -- what Pride has
8 proposed for wells. The AFE number being that low, it
9 can't be done for that.

10 **Q. How about the one-mile lateral versus the**
11 **two-mile lateral? What's your opinion as to the**
12 **drainage as proposed by Pride versus the two-mile?**

13 A. A one-mile to a two-mile lateral, your EUR is
14 one to one for lateral footage. Now, some will argue
15 that you have a 330 setback, and you're going to leave
16 61 acres. Well, that would be assuming that not one
17 single grain of sand of your frac crosses that 330 line,
18 like there's a hard boundary there that the sand cares
19 about it. It doesn't.

20 Now, if you frac out your toe -- we have
21 seismic and microseismic data from wells that I've
22 drilled and I've done these tests on, that if you frac
23 out the toe frac, you can actually frac up to 280 feet
24 on an average out of your toe, which will effectively
25 only leave 50 feet from the section line that you

1 wouldn't be getting your sand out into.

2 **Q. How about in the heel of the well?**

3 A. On the heel -- now, typically, most horizontal
4 fracs, they do a 60-degree phasing. That's basically 60
5 degrees up. On your heel, your last set of perforations
6 or last interval of perforations, you actually adjust
7 your phasing so that you don't do it on a single axis,
8 which would be up and down. You actually rotate it
9 back, try to jet backwards. And the microseismic that
10 we've done on that shows that you can get up to 135 feet
11 going that direction. So we don't lose the 330 feet,
12 like most people would imagine that there is a wall
13 there that just stops everything from happening.

14 **Q. So would the 61 acres proposed -- or testified**
15 **to by Devon, is that just a mathematical number?**

16 A. That's in a perfect a world where everything
17 stops on these lines that are drawn in on these pieces
18 of paper, that that line there stops anything from
19 happening, any drainage from happening, any fracture
20 from going beyond, which it doesn't happen that way. So
21 the mathematics on it are faulted and flawed.

22 **Q. How about -- you just mentioned a while ago the**
23 **mathematical risk -- or mechanical risk, not**
24 **mathematical -- the mechanical risk of a two-mile versus**
25 **a one-mile.**

1 A. You have a greater mechanical risk when
2 drilling a two-mile lateral.

3 **Q. Why is that?**

4 A. Because you have a lot more drag happening, and
5 the well becomes a lot more tortuous. This is all due
6 to directional drilling. The rule of thumb, from what
7 I've seen out here and I've been able to calculate, we
8 run at about .28 to about a .32 friction factor, is what
9 we use when we calculate and model out our directional
10 plans, tortuosity and drag.

11 **Q. How do you model a fracture or a completion**
12 **procedure?**

13 A. Completion or the actual directional portion of
14 it?

15 **Q. Well, both.**

16 A. So on the directional portion of it, we put in
17 a perfectly drilled well, and you put in a -- you put in
18 a fake friction factor that you believe that that area
19 has. And once you've drilled wells and you have data
20 from other wells that are drilled, you can actually
21 calculate out what that friction factor is and use that
22 friction factor.

23 As well, instead of drawing a straight line
24 horizontal, you look at the tortuosity of the wells that
25 have previously been drilled -- and that's just from

1 survey point to survey point -- and get your tortuosity
2 calculated. And then you input that tortuosity value
3 onto the planned well with the friction factor that
4 you've taken from other calculated wells, and you can
5 get quite close to the amount of friction you're going
6 to have on a proposed well as to one you've actually
7 drilled out.

8 **Q. This morning there was a question by Mr. Jones**
9 **about four miles -- or it could have been Mr. Brooks --**
10 **about four miles of actual well length. How does**
11 **friction factor affect a four-mile --**

12 A. Well, the further -- the more pipe that you
13 have fluid and sand traveling through, the greater
14 friction you're going to have. So, obviously, the
15 longer the lateral, the more friction you are going to
16 have as you get towards that toe. What does that equate
17 to? It equates to -- you only have so much horsepower,
18 and you only have so much pipe integrity before it
19 bursts, that you can only pump so much.

20 So out towards the toe of a two-mile
21 lateral, say the first set of clusters that we have,
22 you're not going to be able to pump the same rate as you
23 do at the heel. That's the same for a one-mile lateral.
24 You're not going to pump the same amount as you can at
25 the heel. But the further you get out, the less you can

1 pump.

2 So effectively, the further out you are --
3 think of it as a Christmas tree laying on its side, the
4 way your frac is going to travel. So the longer your
5 lateral, the less you're actually going to get drainage
6 down at the toe.

7 **Q. Is that different for a Bone Spring well and a**
8 **Wolfcamp well?**

9 A. So the difference between those two is the Bone
10 Spring wells are going to have, in Devon's case,
11 5-1/2-inch casing run through their production string
12 and a 4-1/2-inch liner from their production string.
13 You have 30 percent less surface area that you can pump
14 through on a 4-1/2-inch casing. So you're effectively
15 going to have even higher friction levels on the
16 Wolfcamp well than you will on the Bone Spring just on
17 the pipe alone. So you'll have that as well. So
18 your -- to toe, you're going to be able to pump even
19 less on those wells.

20 **Q. On the Wolfcamp?**

21 A. On the Wolfcamp than they will be able to on
22 the Bone Spring.

23 Now, just for clarity, the Wolfcamp wells
24 that we have here and the Bone Spring wells that we have
25 here -- the Wolfcamp wells, the way they're designed

1 here, they're designed as per what the APD is. I
2 already spoke with Pride. It wouldn't change the APD
3 unless this hearing was approved for Pride. But the
4 casing design that's in there is not sufficient. The
5 9-5/8 casing needs to be set deeper. The 9-5/8 will be
6 set deeper into either the Bone Spring line or the 3rd
7 Bone Spring, and then a 5-1/2-inch casing would be run
8 rather than a 4-1/2-inch liner. You get better drainage
9 out of the 5-1/2-inch casing as opposed to the
10 4-1/2-inch, and you can get a higher rate for your frac
11 out of it. So you would get a better effective drainage
12 happening.

13 **Q. Does the BLM have any regulatory requirements**
14 **with regard to the casing on a two-mile well?**

15 A. The BLM and the State both have requirements,
16 and that's based on safety factors. So you have to have
17 the right grade and the right weight on the casing to be
18 able to hold back any pressure that you could possibly
19 encounter and not have the casing collapse as well.

20 **Q. So getting back to Exhibit 13, if you look at**
21 **the wells -- well, let's look at the second page. And**
22 **what is the second page of that exhibit?**

23 A. Page 2 is just showing what the planned
24 perforations are. So basically you'll see -- you have
25 the top perforation and the bottom perforation. These

1 will be just your stages that we have planned, and, of
2 course, they will change once the well is drilled and
3 the data is collected at that point.

4 There are multiple ways of collecting the
5 data, the gamma ray, which I don't find too effective.
6 Resistivity is much better. And also running to --
7 tubing once we get logging on the open hole. Basically,
8 that's so you don't have to run an extensive track and
9 you don't have to worry about getting stuck because your
10 logging tools run down inside the drill pipe. And then
11 once you're down at the end, you slope [sic] them out
12 with a pump, and pull your drill pipe out and put your
13 logging suite back. That so far has been the most
14 effective way of logging the horizontal well.

15 **Q. And then for your completion package, it's**
16 **going to vary depending on what you see in that --**

17 A. Exactly. The interpretation from those logs
18 and the mud logs and the samples that we see will
19 dictate where we're going to place the stages and if the
20 stages are going to be 110 feet or 160 feet. It's all
21 going to depend on rock properties.

22 You don't want to have a stage where you
23 have two sets of rock properties that are so far
24 different than, say, of four sets of perforations. Only
25 two of them are actually going to get the frac coming

1 out, and the other two won't. You don't want to have
2 that kind of disparity between your rock properties
3 within the same stage.

4 **Q. Okay. Is there a difference between drilling**
5 **east-west or north-south in this area?**

6 A. In this area, from the data that I was able to
7 collect -- I usually have a graph. Exhibit Number 18.
8 These are wells that were within the vicinity, and I
9 just took the first year's production. The wells in red
10 are the north-south, and the wells in blue are the
11 east-west. The reason there are only three out of the
12 sample here that are east-west is that that's all there
13 was for east-west wells, which that would be my first
14 indicator that the predominant is for stand-up wells.
15 And looking at the production numbers, you can see that
16 stand-up wells do outperform east-west wells. So
17 north-south wells are the way to develop this area.

18 **Q. And the data attached to that graph is your**
19 **actual data that you used to compile the graph?**

20 A. Yes. This was just pulled from the NMOCD
21 online site, production numbers for the wells.
22 Basically, it was just the first 12 months, if there was
23 12 months available. The second column shows the oil
24 per month and then the cumulative, and that's what the
25 draft was generated from.

1 The reason that I looked at this was I was
2 made aware of the notice that was given to Pride that
3 Devon could possibly want to drill a mile-and-a-half,
4 which would effectively strand that acreage in the north
5 half of 16. I looked to see if east-west wells would be
6 worthwhile drilling, and looking at the production
7 numbers, you would strand quite a bit of reservoir and,
8 thereby, being forced to drill east-west up there. So
9 it's not economic, and it wouldn't be in good interest
10 of oil conservation to drill east-west.

11 **Q. You're now referring to an email from Mr. Prout**
12 **to Mr. Pride, and that's shown on Exhibit 17; is that**
13 **right?**

14 A. That is correct. It also was something that I
15 looked at knowing that there was the possibility that
16 Devon wanted to drill two-mile laterals.

17 A lot of companies in the Delaware Basin
18 have been looking at two-mile laterals, and they don't
19 actually get out that far. They get out a mile and a
20 half, and then they need directional control. They
21 can't slide. Sometimes they make it to the
22 mile-and-three-quarter mark, and then they have no
23 directional control. They actually can't slide anymore.
24 Sliding means you're not rotating your pipe. You're
25 sliding in for direction. As soon as you can't do that,

1 you can't get the proper weight transfer. You now are
2 going into rotary mode, and you are at the behest of the
3 formation. Wherever it wants to throw you or kick you
4 is where you're going. If you top out the bottom or the
5 top, you stop drilling. If you get too close to your
6 setback, you stop drilling. And you effectively strand
7 acreage because you can't actually get out that far.

8 Current technology, there are agitators
9 that are being used to help break friction. But most
10 operators now that have been trying out two-mile
11 laterals have stopped doing a two-mile. Some of them
12 are doing 1.5-mile and then drilling infills east-west.
13 But another operator that I do work for has tried that,
14 and the east-west wells don't produce enough to make
15 them viable, so they've actually stopped doing the
16 mile-and-a-half laterals now.

17 **Q. What's the longest lateral that you've drilled?**

18 A. The longest continuous lateral --

19 **Q. Yes.**

20 A. -- would be 3,000 meters, so --

21 **Q. Where did you drill that well?**

22 A. That well was drilled in Canada. The most
23 lateral footage I've put in on a well is 27,000 feet of
24 lateral.

25 **Q. Where?**

1 A. That was in Malaga, southeast New Mexico, on
2 Black River.

3 **Q. What formation?**

4 A. The Ramsey Formation. It has a TVD 2,000 feet.

5 **Q. And so what's the depth of the Ramsey?**

6 A. So the Ramsey is at about 2,000 feet TVD. That
7 well there -- there was an existing vertical well. We
8 decided to drill a horizontal 500 feet behind it. And
9 we drilled horizontal, and it was intersected, that
10 vertical well, just because we wanted to be able to put
11 a pump down below the actual Ramsey, because it's a
12 conventional sand formation but very little pressure.
13 So what we did is we drilled and intersected that well
14 and then drilled the top portion of the Ramsey and
15 basically made a Christmas tree. We sidetracked on
16 the -- just shy of 14,000 feet of lateral, and then we
17 sidetracked below. There is a shale barrier with the
18 two -- and we did the same thing there, just shy of
19 14,000. So they were both about 27,000 feet of --

20 **Q. What is the difference drilling -- drilling the**
21 **well at that depth with that many laterals and drilling**
22 **a Wolfcamp or Bone Spring?**

23 A. You can have different friction factors. A
24 conventional sand has a lot less friction factor, so you
25 don't have the same drag happening. The deeper wells,

1 your friction factor is a lot greater, but it's also --
2 you didn't go out 27,000 feet. We only went out 1,500
3 feet, and then we put the branches off each one. That's
4 how we got the 27,000 feet. You can't do that in the
5 deeper formations because they need to be fracked.
6 Whereas, the Ramsey, the conventional sand, it's all
7 openhole completions. So there are large differences in
8 between the two.

9 Drilling these deeper wells, you have a lot
10 more mechanical risk. As you get further out, the
11 tortuosity is greater. When you're rotating your pipe,
12 you're fatiguing your pipe a lot more than you would --
13 the further out you are, the more fatigue you put on
14 your pipe, again rotary, which means you have more
15 chance of twisting off. And trying to fish pipe after
16 you're already a mile out and you've got to latch onto
17 it is very difficult. And most times it isn't done
18 properly, and you end up cementing it back and
19 sidetracking and going around the fish and having to
20 redrill everything that you've lost. So there is a lot
21 more mechanical risk and a greater chance for error to
22 happen the further out you go.

23 **Q. In this case you're proposing to zipper-frac**
24 **both the Wolfcamp and the Bone Spring?**

25 A. Correct.

1 **Q. How are you going to do that?**

2 A. The proposal for this here is -- to start
3 drilling operations, we would build all three pads, and
4 then bring in a spud rig and drill all the surface
5 holes, bring in the bigger rig and drill the 701 and the
6 501, and move that rig over and drill the 702 and the
7 70- -- the 702 and the 502. During that time, we would
8 have a central battery that's already out there, and we
9 would start upgrading and putting in tankage that's
10 going to be required. But all six wells would be
11 fracked essentially at the same time. You would frac
12 the 701 and the 501 on one run and then move the
13 equipment to the next pad and then to the next pad.

14 While -- while the wells are being fracked,
15 the one that's previously been fracked will stay shut
16 in, and that gives them the same pressure downhole as
17 they're fracking the other wells with, so we don't have
18 anything happening going side to side.

19 Potentially what can happen is, if you frac
20 one well and you let it, say, go on line for six months,
21 one year, you deplete the reservoir. Even if you shut
22 it in, you have the potential that when you frac your
23 next well of going back over here and hitting some of
24 the fractures, and then you lose the efficacy of your
25 frac on that well. Whereas, if you do them at the same

1 time and hold the pressure on them, you don't have that
2 issue.

3 Now, doing a zipper frac when you're
4 running two wells one-mile long you have double the
5 sand, and you have double the water that's required.
6 Frac ponds are easily capable of handling that much
7 water. Sand kings, you can get enough of them right now
8 that you can handle that amount of sand.

9 Going to a two-mile lateral, I am going to
10 say that you're going to end up shutting down numerous
11 times during the frac. And this is just based on
12 mile-and-a-half laterals, two of which I just finished
13 in the last two weeks, that they tried to do a zipper
14 frac on those, and they ran out of sand. And they don't
15 have enough trucks to keep up, and there is not enough
16 sand kings to be able to rent to be able to get the
17 sand. And water transfer isn't fast enough to keep up
18 with the zipper frac, so you end up running out of water
19 in order to keep a frac pond up.

20 Now, to mitigate that, one of the companies
21 looked at getting frac tanks, and they put 100 frac
22 tanks in. At \$2,500 a frac tank, that's \$2,500 a day
23 added on to that extra cost. So the costs are a lot
24 greater. Trying to do that zipper frac with those
25 longer laterals, you run into, most of the time, where

1 you're stopping and waiting on materials and logistics.

2 **Q. How about ultimate drainage on the zipper**
3 **frac -- well, let me have you look at Exhibit 15 and ask**
4 **you what that demonstrates.**

5 A. This is just a basic illustration of how a frac
6 model should show that it should go. And this is based
7 on a microseismic that I've performed on other wells.
8 And it shows how you can get overlap happening. If you
9 do it, ideally you want one well to overlap the other
10 well. So you actually rubblize everything in between.
11 So, you know, you've effectively taken care of all of
12 that acreage. And zipper fracs have been shown on a
13 global scale that they work more effectively than just
14 fracking individual wells, then coming back.

15 **Q. So now Exhibit 15 just illustrates Wolfcamp?**

16 A. Wolfcamp or Bone Spring. I mean, this -- this
17 zipper frac here, this design here, and showing what it
18 is is for any formation on the planet. It's just a way
19 of showing that this is one side, this is the other
20 side, and this is how you get crisscross. Now,
21 depending where your well is within each spacing unit,
22 you may want to move that lateral based on the design so
23 that you can get the rubblization of both wells hitting
24 the outside of each other's frac.

25 **Q. How about ultimate drainage in Section 16? Can**

1 **this kind of zipper frac -- with a two-mile lateral**
2 **proposed by Devon?**

3 A. Again, on a two-mile -- on here, you can't see
4 it because the variation is so slight. But at the heel
5 of these wells, your frac growth out is larger than your
6 frac growth out of your toe. So that toe is smaller.
7 It's gradual. But as you get further out -- so if we
8 went two miles, it would be even smaller growing out.
9 If you went three miles, it would be even smaller than
10 that growing out. And that is because of the friction
11 you have caused by going out further.

12 So do you get the same drainage on a
13 per-foot basis? No. The further out you go, you get
14 less footage of draining because your frac doesn't grow
15 out as far as because you can't pump at the same rate.

16 **Q. Would you be seeing any surface disturbance --**

17 A. Yes.

18 **Q. -- with the two-mile lateral?**

19 A. Yes. You would see a more definitive type of
20 Christmas tree. So the top of the Christmas tree would
21 be the toe of the well.

22 **Q. Let's talk about the economics of drilling**
23 **closer in time to today than 15 months away. Can you**
24 **give us an idea of a six-month, one-year and 18-month**
25 **progression?**

1 A. So, I mean, currently, today, we know exactly
2 what the price of oil is today. We can look at 30 days
3 from now and say, "Well, it looks like it should be here
4 based on the last 30 days or 60 days. I know what my
5 vendor costs are today, and in 30 days, my vendor costs
6 are not going to be any different because these bids
7 that they provided me are good for 60 days. So I know
8 I'm fixed in on there. I can make a pretty good
9 assumption of what my ROI is going to be based on that.

10 To go six months out, I have no idea. To
11 go 12 months out, I have no idea. I'd be guessing just
12 like anyone else. If oil prices are going to continue
13 to go up, therefore, vendor prices will continue to go
14 out. A war breaks out and oil goes through the roof.
15 We have no way of predicting that. And being that we
16 have a permit in hand right now and we have what I'm
17 going to call fixed bid costs, we can -- we can really
18 nail in on what our ROI would be on these wells.

19 Whereas, if we have to wait 12 months, six months, 18
20 months until the BLM gives a permit, who knows what the
21 economics will be by then. If they trend the same way
22 they are now, oil's going to continue to go up, so our
23 vendor costs, but it's not linear, so the ROI is
24 actually going to be less in 18 months' time.

25 **Q. You're currently receiving bids, right?**

1 A. Correct.

2 **Q. How are those bids coming in in relation to the**
3 **AFEs Mr. Pride sent out to Devon in February?**

4 A. Currently, they're in line. They're in line
5 with what the AFEs are, within 10 percent. And I always
6 say an AFE needs to be within 10 percent of what actual
7 costs are. Anything above and beyond that 10 percent
8 really needs to be explained. There has to be some
9 mechanical failure to accomplish that, unknown
10 geological disturbance. Anything beyond that 10 percent
11 is going to be something out of that realm.

12 And these AFEs are coming in for what they
13 were planned for, at close to cost, the difference being
14 that potentially the Wolfcamp wells will take -- will
15 require more sand to do an effective frac. I'm still
16 not convinced on that. Other operators I have in the
17 area are looking at what they're putting in. The 2nd
18 Bone Spring, 1st Bone Spring, the 3rd Bone Spring and
19 the Wolfcamp are almost all the same amount of sand, and
20 the production numbers that I'm seeing out of them are
21 very good with this 1,500-pounds-per-foot, linear foot.
22 Some operators will put up to 3,000, and you don't
23 see -- the increase in production is not linear to the
24 increase in sand. So there is a point where more sand
25 doesn't actually mean better economics. A lot of

1 companies -- you know, four years ago, five years ago,
2 we used a lot of crosslinked frac systems and have
3 gotten away from that because it's more expensive and it
4 didn't prove to be more effective on ultimate recovery.

5 Q. Mr. Morris, we haven't talked about Exhibit 16.
6 When I first saw this, I didn't know what you were
7 trying to show. What are you trying to show with this?

8 A. This plot here, just for illustration purposes,
9 basically you're standing behind the well, and we cut
10 the earth down to 12,000 feet, and you're looking at the
11 well going like this (indicating). This is just to show
12 an illustration that this is where the upper one --
13 upper row will be of Bone Spring wells, and the lower
14 one will be your Wolfcamp wells.

15 Being there is such a great TVD distance
16 between the two, the frac's not going to migrate from
17 the 2nd Bone Spring into the Wolfcamp. We may get some
18 crossover into the 3rd Bone Spring. Drilling of the 3rd
19 Bone Spring in this area to me so far likes prolific.
20 After the first Wolfcamp well is drilled, that data will
21 be much more prevalent to us. And if it appears that
22 the 3rd Bone Spring is going to be just as prolific or
23 still have a good ROI, then those will be infill wells,
24 and we would like to have those drilled in quite short
25 time as compared to when these ones are. Just as I said

1 before, I don't want to have too much drainage happening
2 in between the two when you know you're going to get
3 some frac crossover.

4 So this was just to illustrate the distance
5 between the two and kind of be able to sort of describe
6 how a frac height is going to grow and how much it goes
7 down.

8 **Q. You don't see any commingling between the 2nd**
9 **Bone Spring and the Wolfcamp?**

10 A. No. There is too much TVD distance, and I
11 don't think anyone's got enough horsepower to put a frac
12 that big as of yet.

13 **Q. Did you do an estimate ultimate recovery**
14 **calculation of any sort?**

15 A. I just did some root numbers on it. And for
16 the 2nd Bone, looking at any of those, you can get
17 anywhere from 450- to 750,000 barrels.

18 The Wolfcamp, I had to go a little bit
19 further out of this area and use other Wolfcamps,
20 because there's just not a lot of Wolfcamp data in any
21 one given spot. But the Wolfcamp here is anywhere from
22 500,000, I would say, up to 1.6 million, and that's on
23 one-mile laterals. Those are based off of numbers I got
24 from other operators that I've worked with and what
25 their wells are producing.

1 **Q. In the immediate area, you can't make any**
2 **prediction on the EUR?**

3 A. Not on the Wolfcamp. There's just not enough.
4 There might be enough to make a prediction. I just
5 don't think the prediction would be very valid, so I
6 wouldn't be comfortable giving that number out.

7 **Q. So the closest you can come to any analysis is**
8 **your Exhibit 18?**

9 A. Yeah. That's just kind of showing what you're
10 going to get from a north-south well. Again, there is
11 just not enough -- not enough data for me to be
12 comfortable with. A lot of the reservoir engineering
13 modeling software, PHDWin, there are a lot of variables
14 that you can just plug a number in there -- and it's
15 whatever number you want -- and it will make your
16 ultimate recovery this number. And it's very easy to
17 change. So I personally don't think there is enough
18 data, enough years yet there to give a good accurate EUR
19 assumption.

20 **Q. You need a decline curve, right?**

21 A. I would need a decline curve, but I would need
22 to see it over a period of at least two years.

23 **Q. Do you have an estimate of the EUR for one-mile**
24 **laterals?**

25 A. Like I said, it's going to range anywhere, but

1 I would say on a low end of about 450.

2 Q. In the comparison between a one-mile lateral
3 and the two-mile lateral proposed by Devon, can you make
4 any prediction on comparison there?

5 A. I would say on a comparison, just based on
6 if -- if Devon's conceding that if they drill a one-mile
7 lateral, they would concede 61 acres and not be able to
8 develop it, then I would say that their frac design and
9 the way they're modeling their frac is incorrect, and
10 they're not actually fracking the well effectively.

11 Basing it on numbers that we actually have
12 and numbers that they provided, your EUR is one to one
13 per lateral footage. So as long as I can get all of my
14 footage, which we can if we frac out the toe and put
15 proper casing on our first stage of the heel, we can get
16 the same drainage as they're talking about on their EUR
17 model. The only thing with that is out of the end of
18 their toe, they're not actually getting the frac width
19 or the height out of that frac because they cannot
20 overcome that pressure. In order to do that, they would
21 have to put even larger, more expensive -- thicker,
22 harder, more expensive casing and contract out more
23 horsepower to be able to get the same rate out of the
24 toe.

25 MR. PADILLA: I don't have anything else of

1 Mr. Morris. Pass the witness.

2 EXAMINER JONES: Mr. McMillan?

3 MR. PADILLA: We'd ask for the admission of
4 Exhibits 13 through 18.

5 EXAMINER JONES: Any objection?

6 MR. McMILLAN: No objection.

7 EXAMINER JONES: Exhibits 13 through 18 are
8 admitted.

9 (Pride Energy Company Exhibit Numbers 13
10 through 18 are offered and admitted into
11 evidence.)

12 MR. McMILLAN: We'll power on through?

13 EXAMINER JONES: It's up to you. Do you
14 want to take a break? We can take a break.

15 MR. McMILLAN: I need a drink of water. I
16 just need three minutes.

17 EXAMINER JONES: Let's do that. No
18 problem. We're always up for breaks.

19 (Recess, 4:14 p.m. to 4:38 p.m.; Examiner
20 Brooks not present.)

21 EXAMINER JONES: Let's go back on the
22 record and continue with Mr. Morris.

23 CROSS-EXAMINATION

24 BY MR. McMILLAN:

25 Q. Mr. Morris, thank you. I was going to request

1 for a refresher course on your last name. Okay. It's
2 been a long day.

3 Mr. Morris, again, I'm Seth McMillan,
4 counsel for Devon here. I just have some follow-up
5 cross-examination based on your direct testimony and the
6 exhibits you presented.

7 First of all, very early in your testimony,
8 you told us that you have drilled many, many -- I don't
9 remember the exact number. I think it was in the
10 thousands, but many, many Wolfcamp and Bone Spring wells
11 in southeastern New Mexico. What we're curious about is
12 whether any of those wells were in the immediate
13 vicinity of the project area that is proposed here
14 today.

15 A. By immediate, what do you --

16 Q. Let's call it within a mile.

17 A. Within a mile? No.

18 Q. Within ten miles?

19 A. Within ten miles, I would say probably 12. I'm
20 just guessing.

21 Q. Okay. So looking at Pride's AFEs, I note that
22 the base completed well costs for the Wolfcamp wells is
23 really quite close, I'll say, to those for the Bone
24 Spring wells, which is to say that it looks like the
25 total completed well costs for the Bone Spring wells is

1 6,672,000.

2 (Examiner Brooks enters the room, 4:39.
3 p.m.)

4 EXAMINER BROOKS: Sorry for the lengthy
5 delay.

6 EXAMINER JONES: We just got started again.

7 EXAMINER BROOKS: Okay.

8 Q. (BY MR. McMILLAN) I'll just start the question
9 again since Mr. Brooks just joined us.

10 I note that the AFEs -- that Pride's AFEs
11 for the Bone Spring wells come in at 6,672,000, and
12 those for the Wolfcamp wells come in at 6,680,000. Does
13 that sound correct, for the record?

14 A. I believe so.

15 Q. Okay. Well, I'm curious as to how you intend
16 to drill and complete these wells, the Bone Spring wells
17 and the Wolfcamp wells, for more or less the same price
18 when we're really talking about two different
19 formations. Would you agree with our engineer's
20 testimony that the Wolfcamp is a higher pressure
21 formation?

22 A. In some areas, yes.

23 Q. Do you have any data with respect to whether
24 it's a higher pressure formation in the exact area we're
25 talking about today?

1 A. In this exact area -- the lower portion of the
2 Wolfcamp does have higher pressure -- considerably
3 higher pressure than the Bone Spring. The upper portion
4 doesn't have considerably -- it is literally based on
5 hydrostatic pressure.

6 **Q. But it is, however -- okay.**

7 A. Because it's deeper, it's going to have a
8 higher pressure gradient.

9 **Q. Okay. That's -- that's what I wanted us to**
10 **agree on.**

11 A. Uh-huh.

12 **Q. Would you agree that because of the higher**
13 **pressure gradient that there are additional concerns**
14 **regarding casing in the Wolfcamp as opposed to the Bone**
15 **Spring here in the project areas we're talking about**
16 **today?**

17 A. No. No concerns with the casing. Your casing
18 design is based on your depth --

19 **Q. Okay.**

20 A. -- and the pressures that you're going to need
21 to frac the well.

22 **Q. And is extra casing needed at the Wolfcamp**
23 **horizon than is needed higher up in the Bone Spring?**

24 A. No. It's not extra casing. Extra casing means
25 that the lateral is going to be longer -- need extra

1 casing.

2 Q. Is the casing thickness different?

3 A. The grade of what -- it would be different.

4 Q. Okay. That's what I meant by extra casing.

5 A. Now -- now, it may not be different.

6 Q. In some locations, it's okay that it's not
7 different? Is that what you're saying?

8 A. Well, it all depends. Now, if we're looking at
9 a frac gradient of, say, .8 on the Bone Spring and a
10 frac gradient of, say, .6 on the Wolfcamp, the casing is
11 most likely going to be the same size because the depth
12 severance is going to accommodate the frac differences.

13 So, for instance, on these wells here
14 running 20-pound P110 --

15 Q. I'm sorry?

16 A. These wells here are designed right now with
17 5-1/2-inch, 20-pound P110.

18 Q. And that is throughout the Bone Spring and the
19 Wolfcamp wells?

20 A. Currently, yes.

21 Q. Do you happen to know what the expected
22 pressure gradient is in the Wolfcamp here in the project
23 areas we're talking about today?

24 A. Off the top of my head, I can give you an
25 estimate, but I don't know an accurate number. I don't

1 have that data with me, but it should be a .82.

2 Q. Okay. Do you happen to know what the expected
3 pressure gradient is for the Bone Spring?

4 A. Pressure gradient or fracture gradient? So I'm
5 going on fracture gradient, how much pressure the frac's
6 going to take.

7 MR. McMILLAN: Sorry. I'm trying to get an
8 engineering degree here.

9 (Consultation off the record.)

10 Q. (BY MR. McMILLAN) Does your well development
11 plan in the Wolfcamp involve isolating the Wolfcamp at
12 the -- at the top of the Wolfcamp so that there is not
13 any problem with the lower pressured formation above the
14 Wolfcamp?

15 A. That will be what I stated earlier about
16 setting our 9-5/8 casing deep. The well design on here
17 now creates -- depending on what the APD is, we will
18 file a sundry notice for the APD -- deep casing string.
19 But then we still only run three strings of casing --
20 set inside the 3rd Bone Spring, inside one of the --
21 inside there and then 5-1/2-inch set for the production
22 string.

23 Q. Didn't you testify earlier that casing is quite
24 expensive?

25 A. Yes.

1 Q. That steel is quite expensive. Is steel
2 involved in the casing that you use?

3 A. Yes. Yes.

4 Q. Upon filing a sundry notice to set your
5 9-1/2 -- did you say --

6 A. 9-5/8.

7 Q. -- 9-5/8 casing, will that not increase your
8 well costs for Wolfcamp wells?

9 A. It will. It will increase, and it will
10 increase by \$150,000.

11 Q. Okay. Nonetheless, it will increase.

12 Isn't it a matter of environmental health
13 and safety to ensure that casing is proper throughout
14 the length of the wellbore?

15 A. Absolutely.

16 Q. And is it out of concern for environmental
17 health and safety that you're proposing that a sundry
18 notice be filed and that 9-5/8 casing be set differently
19 than was set forth in your original development plan?

20 A. Yes. It would be for the safety of anyone who
21 is on location. Once that Wolfcamp Formation is
22 penetrated, if the casing wasn't set to the right depth,
23 you could have a blowout from -- would actually overcome
24 the pore pressure on one of the other formations, and
25 you would lose fluid in the formation and gas --

1 Q. You and I are having a great conversation. I'm
2 pretty sure she's (indicating) having trouble picking it
3 up. Maybe if you kind of move back a little and at an
4 angle. I don't know. I was just picking up on her
5 facial expression. It's clear that we need to help her.

6 Now, is there actual logging required for
7 the Wolfcamp wells than is required for the Bone Spring?

8 A. No.

9 Q. No? Not even with the increased depth?

10 A. No. There's going to be the same suite of
11 logs.

12 Q. Now, are you using the same fracking for your
13 Wolfcamp wells as you'll be using for the Bone Spring?

14 A. The difference between the two frac designs is
15 going to be the amount of pounds of sand per linear. It
16 will be increased on the --

17 Q. Sand is expensive? Yes?

18 A. Not the most expensive part of the frac, but it
19 does incur costs.

20 Q. Where do you get your sand?

21 A. That comes from the frac vendor.

22 Q. From the frac company?

23 A. Yes.

24 Q. And is there -- because it comes from the
25 company, is there an upcharge for the sand that they

1 **provide?**

2 A. No. I negotiate that out from the frac vendors
3 that I use. Three of the frac vendors that I use, I
4 actually negotiated the sand for them at the mine, so I
5 get the pricing that the mine gives them for the sand.

6 **Q. And in any event, where there is more sand**
7 **required for the Wolfcamp wells than the Bone Spring**
8 **wells, why is your -- why do the AFEs reflect the same**
9 **exact fracking cost?**

10 A. The AFEs were created prior to my changes being
11 made to the frac design. So the AFE, it still will be
12 within 10 percent. The actual cost will be within 10
13 percent of what the AFEs are now. And that's just based
14 on -- the sand cost currently for the Bone Spring wells
15 is about both \$390,000 for the sand. That's using 40/70
16 white and 40/70 resin coated -- at 1,500 pounds per
17 linear foot. We're going to increase that to about
18 2,250 pounds. So we'll have -- half of that 390,000
19 will be added on to the cost of the well.

20 **Q. And that's not currently reflected in the AFE,**
21 **correct?**

22 A. The AFE would encompass a portion of that.
23 It's \$140,000 more. So between the casing and -- the
24 casing differential and the sand differential is about
25 300,000. So 140,000 is not going to be encompassed in

1 that AFE currently under the right [sic] bucket. But it
2 will be encompassed within the AFE. There are other --
3 in the AFE. Numbers need to be moved from one bucket to
4 another, but the total end result should be pretty close
5 to what's in there.

6 **Q. Okay. So far we've talked about costs that are**
7 **actually going to increase based upon your fracking**
8 **plan. Can you list for me what buckets will be reduced**
9 **by your amendments to the AFE?**

10 A. The ones for the battery. So your production
11 facilities, those ones there are a little bit inflated
12 for what is going to be required, and that's just
13 because it's going to be a communal battery. So there
14 will be a tank added. There will be three-phase
15 separators added. But you're not going to have to
16 repeat all of the components on the battery for every
17 well that comes on line. So there will be costs savings
18 there because you're using a communal battery, just the
19 actual area itself, the footprint and the secondary
20 containment.

21 **Q. Are there any other cost increases that you**
22 **foresee since you got on board here and adjusting the**
23 **completion --**

24 A. Really the largest component is going to be the
25 casing. That's where we're seeing the biggest dramatic

1 changes in any of these well costs currently, and water.
2 The cost of water has -- has been going up. Even the
3 cost of recycling on water -- recycled water, we're
4 seeing an increase in it.

5 Q. Let's talk about the water.

6 Hang on just a second, sir.

7 (Consultation off the record.)

8 Q. (BY MR. McMILLAN) When you testified that
9 you're going to be increasing the amount of sand you're
10 pumping down there for the fracking, aren't you also
11 increasing the water you'll be using?

12 A. A portion of it will be. A lot of operators,
13 as they increase sand, they like to increase the amount
14 of water in a linear fashion, and I don't like to do
15 that. And I have done numerous other wells where we've
16 increased the sand and -- say another operator will
17 increase it by 40,000 barrels. I've increased it by
18 10,000 barrels of sand, and still have just as
19 effective, if not more effective, of a frac.

20 Q. Nevertheless, an increase in sand leads to an
21 increase -- there will be some percentage --

22 A. Some percentage of an increase in water. Yes.

23 Q. The other thing she'll (indicating) throw
24 something at us for is if we talk over each other, so we
25 have to be careful about that.

1 **You're using resin-coated sand; is that**
2 **right?**

3 A. That's at the tail end. Yes.

4 **Q. That's very expensive stuff?**

5 A. More expensive than regular white sand.

6 **Q. And your revised fracking plan, so to speak,**
7 **does that call for an increase in resin-coated sand in**
8 **the Wolfcamp?**

9 A. No.

10 **Q. And why not?**

11 A. It's not needed.

12 **Q. Increase in the Bone Spring?**

13 A. No.

14 **Q. Why not needed?**

15 A. It's not needed. It's at the tail end, and the
16 amount that you use at the tail end -- no matter how
17 much you lead in with. People might want to say
18 differently, but it's just the tail end. It's just to
19 hold a position for a certain amount of footage before
20 you get to your pipe. Putting in more of it doesn't
21 make it any better. Changing it over -- straight over
22 to resin coat may make it better. I just don't know
23 anyone who has ever done that.

24 **Q. Have you read any studies that suggest that**
25 **there's really no need to use the resin-coated sand?**

1 A. There are studies that say that there is no
2 need, and there are studies that say that there is an
3 absolute need. There are the same studies that show a
4 ceramic, that ceramic is superior to regular sand, and
5 there are others that say it's not that superior. So
6 it's 50/50. And whichever side someone wants to believe
7 is the one they're going to believe, but I don't think
8 there is a definitive answer between the two.

9 **Q. You testified earlier to EURs, and as I recall,**
10 **your testimony was -- it was testimony. Do you have any**
11 **exhibits or studies estimating EURs with respect to the**
12 **these wells?**

13 A. The only one would be the production graph that
14 we have here.

15 **Q. Is that Exhibit 18?**

16 A. I believe so. Yes. And from there, if we take
17 the first year production numbers -- and let's -- let's
18 take this one. It's a nice standout. It's got 180,000
19 barrels --

20 (The court reporter requested the witness
21 speak louder.)

22 A. It's got 180,000 barrels in the first year, or
23 thereabouts.

24 EXAMINER BROOKS: What exhibit are we
25 looking at?

1 THE WITNESS: Exhibit 18. It's this graph
2 right here (indicating).

3 (Examiner Lowe exits the room.)

4 EXAMINER BROOKS: I've got it.

5 THE WITNESS: These wells in here may be
6 one mile, may be 1.5 miles. I didn't bother to look.
7 It wasn't for that purpose. It was for the purpose of
8 showing is east-west better than north-south or is
9 north-south better than east-west, and it was to show
10 there are only three east-west wells.

11 Q. (MR. McMILLAN) Uh-huh.

12 A. From this, just taking a quick look of what
13 these wells are producing per barrel, I made my
14 assumption on EUR. Current EUR modeling using PHDWin,
15 which is a program that you can throw in variables in
16 there that you can pull out of nowhere and change your
17 numbers. I've had many reservoir engineers come and
18 say, "Well, the economics on this \$800 oil -- I tell
19 them, "Well, that's not going to work because this oil
20 is at \$8.00. And they come back and say, "Well, we can
21 make it work," you know. That's just a variable in the
22 software that they've changed on their own without using
23 actual data.

24 And in this area, there is not enough data
25 points to give an actual EUR that I'm comfortable

1 giving. I can give you something of a ballpark like I
2 did earlier in testimony.

3 Q. I'm curious about your sources of data here in
4 Exhibit Number 18. Do you happen to know who is
5 operating each of the wells that you've used as data
6 points?

7 A. No. It doesn't matter who is operating them.

8 Q. Okay. Would it surprise you to learn --
9 probably not since they're so present. Would it
10 surprise you to learn, though, that many of those --
11 these are Devon-operated wells?

12 A. No. Devon's quite active in the area. So --

13 Q. Would it surprise you to learn that the most
14 productive of these four wells with the shortest life
15 span but with the highest productivity, that those are
16 almost entirely one-and-a-half-mile laterals rather than
17 one-mile?

18 A. Those would be the Arabian wells then. They
19 would be the Arabian wells, and those are Devon wells,
20 and they're a mile-and-a-half.

21 Q. Right.

22 And would it surprise you to learn that at
23 least two of these wells are actually Leonard horizon
24 wells as opposed to the formations that we're looking at
25 here today?

1 A. Yes, it would, because this is pulled off the
2 OCD site, and this is what was filed for the formation
3 of interest on the OCD site. So there must be a
4 misfiling by Devon or whoever the operator was.

5 **Q. For the record, these aren't -- those two are**
6 **not Devon wells.**

7 A. Whoever they were. All -- all I do -- when I
8 do a search on the OCD site, I put the pool information
9 and I put the township, range and section that they
10 want, and it comes up with this. The wells that we
11 pulled were the ones that -- were showing that pool that
12 we were looking for.

13 **Q. Sure.**

14 A. And these are all 2nd Bone Spring Pool. We
15 didn't pull any for the Wolfcamp because --

16 **Q. Not enough data. Okay.**

17 **Is Exhibit 15 a model, or is it a cartoon?**

18 A. It's not a model.

19 **Q. Did you do any modeling of your zipper fracs in**
20 **either of the Bone Spring or Wolfcamp wells?**

21 A. Modeling as to?

22 **Q. Modeling -- something more than a cartoon,**
23 **something demonstrating what the data might be expected**
24 **to be.**

25 A. So the modeling I've used is from surrounding

1 areas that I've had other operators go and perform
2 microseismic on. And the 2nd Bone Spring, 3rd Bone
3 Spring, 1st Bone Spring wells that I have modeling using
4 microseismic don't seem to change much throughout a
5 large -- throughout a large area.

6 **Q. As such, what you're testifying to is an**
7 **opinion, but you don't actually have any data for us**
8 **here today?**

9 A. No. I have the data that we have, Devon has,
10 and that's it.

11 **Q. What is your saltwater disposal capacity?**

12 A. I don't know that.

13 **Q. Saltwater disposal can be quite expensive? No?**

14 A. It can be. But as was testified earlier, if
15 another saltwater disposal well is needed, that can be
16 drilled. That will be something that I will look into.
17 If Pride is granted operatorship, at that point I will
18 go and visit the saltwater disposal well that's in
19 place, do a step-rate test, see what it can handle, and
20 then make an assumption on whether or not we need to
21 drill another one. If another one is needed, another
22 one will be drilled.

23 **Q. In the meantime, you have to truck that water**
24 **if, in fact, the current well does not have the capacity**
25 **for what you're producing?**

1 A. No.

2 **Q. What would you do with the water?**

3 A. The water wouldn't be produced yet. We're far
4 enough out from drilling because of this hearing that I
5 have enough time to go and drill another well before we
6 ever put any of that produced water back down the hole.

7 **Q. You're ready to drill these oil wells tomorrow,**
8 **I think was the testimony, but --**

9 A. No. Within a -- within a week, I could do --
10 with locations after this hearing. But I could go drill
11 a saltwater disposal well tonight.

12 **Q. You have permitting in place? You have the**
13 **authorization to do that?**

14 A. Well, it wouldn't take long to do that, is what
15 I'm saying. I have plenty of time from the time I put
16 the first well -- these wells here on line in order to
17 drill a saltwater disposal well. A saltwater disposal
18 well could be done within -- let's say less than 35 days
19 from today.

20 **Q. Including OCD approval of that well?**

21 A. Sure.

22 **Q. Have you recently filed paperwork to drill a**
23 **saltwater disposal well with the OCD?**

24 A. I have within the last five months.

25 **Q. The last five months? And you're testifying it**

1 took 30 days or so for that to be approved?

2 A. We are just shy of 45 days to get approval.

3 Q. Was it opposed by any party?

4 A. No.

5 Q. The hypothetical saltwater disposal well that
6 you're talking about, would you be inclined to drill
7 into the Delaware?

8 A. It would depend. I would have to make an
9 evaluation prior to making an assumption of where I
10 would want to place it.

11 Q. And if I told you that the OCD doesn't favor a
12 Delaware well go as deep as the Devonian, would that
13 affect your time horizon for getting this well drilled?

14 A. It would change it by approximately 12 days.

15 Q. Wouldn't it also cost more?

16 A. Yes, it would. Anything deeper is going to
17 cost more.

18 Q. So you previously testified that you have these
19 fixed bid costs, correct?

20 A. Correct.

21 Q. And -- however, you have enough contracts in
22 place, correct?

23 A. Incorrect.

24 Q. What contracts do you have currently in place?

25 A. I have a contract with every one of them, my

1 company, and I extend those to the operators that I do
2 business with.

3 Q. So you have contracts in place to perform
4 services such as -- well, which contracts in particular?

5 A. Well, cementing, frac tanks, trailers, housing,
6 Payson [sic; phonetic]. I can run on the list of 300
7 different things.

8 Q. What about well-specific services? Do you have
9 contracts in place for someone to say, "Geosteering these
10 wells" --

11 A. Yes.

12 Q. -- these particular wells?

13 A. Yes.

14 Q. And that's even without knowing whether these
15 wells will go forward or not?

16 A. I already have contracts in place with
17 GeoVision who does the geosteering for us. And I've
18 already got a contract in place with them. They've been
19 doing work for me on other wells. It's a matter of them
20 assigning the personnel to this well if it does come to
21 fruition.

22 Q. Are those costs reflected in your AFEs?

23 A. Yes.

24 Q. Who is doing your fracking?

25 A. I haven't decided who is doing the fracking

1 yet.

2 Q. So clearly you don't have a contract in place
3 to do the frac jobs?

4 A. Yes, I do. I have multiple frac contracts in
5 place. I haven't decided who is going to actually do
6 this well.

7 Q. Right. That's what I mean.

8 A. And I won't decide that until the time comes
9 when it's time to do the frac. On the work that they've
10 done previously -- I've got three companies that do the
11 work for other operators. Whoever is giving me the best
12 service may not have to be the best price, because the
13 cost efficiency on service will be dictated at that
14 time.

15 Q. Okay. Who will be on the ground tracking these
16 wells during the key phrases of drilling, completion?

17 A. I'm unsure what you mean by track.

18 Q. Paying attention to what's going on. Who is
19 going to be actively on the grounds making sure that all
20 is going well?

21 A. There will be a day company man and a night
22 company man, as well as I have a field supervisor that
23 looks in over all the wells that my company runs. I
24 also look in on every well myself, personally, as well
25 as an engineer -- a dedicated engineer is assigned to my

1 office as well.

2 Q. So you do have an engineer on the ground?

3 A. Yes.

4 Q. A geologist?

5 A. No geologist from my company. Pride will have
6 their geology and the GeoVision geosteerers.

7 Q. You testified that zip fracking is expensive,
8 correct?

9 A. That it's expensive?

10 Q. Zipper fracking.

11 A. No. It's not more expensive than a
12 conventional frac.

13 Q. Does it produce more salt water?

14 A. I guess, yes, it would produce more salt water
15 and produce more oil and produce more gas, because you
16 get a more effective frac, and you're actually fracture
17 more quality -- volume of ground.

18 Q. Is zipper-fracking reflected in the AFEs?

19 A. Yes, because the cost of your frac is actually
20 less, but you do have those other costs that -- you have
21 more flow and more volume. A conventional individual
22 well, when they frac it, is going to run -- and I'm just
23 going to give a number here -- say 1.7. Whereas, if you
24 do a zipper, you're fracking that individual well at
25 1.5. You save on costs, because the frac company will

1 bill it out by how many stages they are going to do per
2 month.

3 Q. You're zipper-fracking the Wolfcamp and the
4 Bone Spring, right, that you'll be doing them
5 separately? The Wolfcamp will be zipper-fracked. The
6 Bone Spring will be separate?

7 A. They're all going to be fracked at the same
8 time, but the zipper frac will be toward a horizon base.

9 Q. Okay.

10 A. Yeah.

11 Q. So multiple frac barriers between -- you're not
12 trying to --

13 A. All six wells will be fracked at the same time,
14 but you're going to do one zone, then the other zone,
15 and then move the frac --

16 Q. Okay. Now, this is interesting. You testified
17 with respect to the 330-foot setbacks --

18 A. Uh-huh.

19 Q. -- or if we move ourselves into the
20 not-too-distant future, we're looking at 100-foot
21 setbacks. You gave us a number -- a number that I
22 thought was interesting. You were saying that any
23 fracker worth his salt could pick up at least, if not
24 more than that 330 feet?

25 A. No. I said 280 feet --

1 Q. Just 280 feet.

2 A. -- based on microseismic data fracking out the
3 toe.

4 Q. Okay. Okay. So are we in danger here of --
5 once the setbacks become 100-foot setbacks, is your frac
6 process going to be, you know, going beyond the 100-foot
7 setbacks into neighboring properties?

8 A. That would depend how much you're putting on
9 that toe and what the OCD is going to allow on that.
10 And I think that's a determination they'll have to make
11 if they do go ahead with this new ruling.

12 Q. Right. Right.

13 And I'm saying let's assume they do move
14 ahead with the new ruling. Is your frac job where
15 you've 280 feet -- that seems to me -- again, the math
16 is difficult for me. But it seems to me that if you're
17 100 feet off and you go 280 feet in one direction, it
18 crosses the line; you get 180 feet in the neighboring
19 property. No?

20 A. Yes. And that's why I said that the OCD would
21 make a ruling on that, to what you would be allowed to
22 frac out the toe or even if you would even be allowed to
23 frac out the toe, or if you would have to put your
24 perforations maybe at the 100-foot line. At the
25 100-foot-line perforations, you change your phasing on

1 it, how far out will it go? Some studies will have to
2 be done on that.

3 Q. So the law may have to change.

4 With respect to that testimony -- I believe
5 it was all verbal -- did you bring with you any exhibits
6 or data to demonstrate this effect that you think you
7 can have to get 280 feet worth of frac up against the
8 330-foot setback? Did you have any data for us today?

9 A. No. I didn't bring anything on that. Most of
10 that data is available. It's public knowledge. Most
11 reservoir engineers or drilling engineers would have
12 access or already have that data.

13 Q. I recall having started to ask Mr. Pride about
14 takeaway capacity. I recall his testimony being that
15 you'd be better suited to answer it. Tell us exactly
16 how you anticipate your produced oil will go to market.

17 A. With the current facilities that are there,
18 there will be an added tankage added to there. And the
19 current pipelines that are coming from those facilities,
20 that's what will be used.

21 Q. Do you have right-of-way for those pipelines?

22 A. The pipelines are already in place. The
23 right-of-way is already there.

24 Q. Do you have rights to those -- to hook up to
25 those pipelines?

1 A. They are currently hooked up to existing
2 facilities.

3 **Q. So how much oil is going to be produced by**
4 **these wells, and are you going to have to upsize the**
5 **pipeline?**

6 A. With current capacity of the pipeline and what
7 we're forecasting these wells to make, there is
8 potential that there will be need for a greater
9 pipeline. But until the first couple of wells are
10 drilled, we won't know for sure and put on line.

11 **Q. Okay. Is upsizing a pipeline a substantial**
12 **cost?**

13 A. Not to the operator.

14 **Q. Is it to the participants in the well?**

15 A. No.

16 **Q. Who pays for it?**

17 A. The purchasing company that has the pipelines
18 in place.

19 **Q. It's not a transportation cost in your AFES?**

20 A. I'm sorry?

21 **Q. It's not a transportation cost in your AFES?**

22 A. No. Why would it be? Let me explain it like
23 this. Plains or the other purchasers, you approach them
24 and tell them that you're going to have a project. It's
25 going to produce X amount of barrels per month more than

1 what it's producing now and that we potentially could
2 have infills wells. They will go and make the
3 assessment and say, "Well, if you can commit to this
4 many barrels per day or per month," that they will
5 upgrade their line or put another line in there at no
6 cost to the operator.

7 **Q. Is there an application process for upgrading?**

8 A. There is.

9 **Q. Is it a federal process?**

10 A. It will depend on where the lands are and where
11 the pipeline crosses.

12 **Q. Here, would it be a federal process?**

13 A. I'm unsure of that right now.

14 **Q. Do you have any idea what the time horizon is**
15 **for getting that kind of thing approved if it does go**
16 **federal?**

17 A. It would depend on what needs to be done, if it
18 needs to be an upgrade on the existing line or an added
19 line. There are two different scenarios, and I can't
20 tell you which one it is going to be. So I can't tell
21 you a timeline.

22 **Q. Is it a matter of -- in either scenario, is it**
23 **a matter of months, not days?**

24 A. Yes. It's going to be looking at months, not
25 days or weeks.

1 Q. So with all of these kinds of issues -- with
2 all those issues kind of up in the air, do you see any
3 potential where there would be a time period where
4 water, oil, anything else might have to be trucked?

5 A. There's always the potential of trucking
6 happening on anyone's wells.

7 Q. Trucking is expensive?

8 A. More expensive than pipeline.

9 Q. Right.

10 Is the potential for trucking reflected in
11 your AFEs?

12 A. No. It's not part of the AFE. It doesn't
13 belong in an AFE whatsoever.

14 Q. Why not?

15 A. Trucking is part of the LOE, lease operating
16 expense. It does not belong in an AFE, and if someone
17 does put it in there, it's in there erroneously.

18 Q. In any event, would increases in costs here --
19 if you get your wells, if you're granted operatorship of
20 these wells and Devon is pooled into them, aren't all of
21 these cost increases ultimately going to be borne by
22 Devon in an appropriate proportion?

23 A. You're talking about maybe cost increases, and
24 I can't make that assumption because those cost
25 increases aren't validated yet.

1 Q. But should they come to fruition, would Devon
2 not bear the burden on -- a portion of burden of those
3 cost increases?

4 A. Yes, just as Pride would bear the burden if
5 Devon loses a downhole assembly because they try to go
6 two miles out. It could be a lot larger cost than what
7 we're talking about potentially could be.

8 So if you want to talk about potential
9 costs and overruns -- we can go back and forth on a lot
10 on this. If you're running a two-mile lateral, if you
11 lose you BHA down there and have to redrill it, you can
12 double your well cost, and that means AFE, not LOE.

13 Q. Understood. We don't have enough time left to
14 go through all the hypotheticals --

15 A. Correct. Correct.

16 Q. -- or the knowns and unknowns, et cetera and
17 what's good for the goose is good for the gander.

18 In any event, I just wanted to establish
19 that should these costs be increased -- and it sounds to
20 me like there is potential, if not a probability that
21 the AFEs -- AFE numbers will increase, that Devon will
22 proportion --

23 A. No. The AFE numbers won't increase. The costs
24 you're talking about are associated with LOE, not AFE.
25 And we've already established that LOE --

1 Q. Right. Right, right. I know. I'm sorry. I'm
2 sorry.

3 A. -- LOE costs with Devon, that appears on their
4 monthly overhead.

5 Q. Right.

6 But when we talked about increasing frac
7 costs -- frac costs, drilling -- casing costs, those are
8 AFE?

9 A. Yes. But those are covered within this AFE,
10 because there are other areas that I've already stated
11 that will decrease. So that AFE will be within 10
12 percent, which is industry standard. If you come within
13 10 percent of your AFE, there is no question. That's
14 just the normal course of business.

15 For us that miss that AFE --

16 Q. Hang on just a moment. I'm sorry.

17 A. -- it will be much different than the 4.9
18 million AFE that was given by Devon, which they will not
19 get that within 10 percent. They won't get that within
20 25 percent. And I'll make that a definitive answer
21 based on they cannot frac the well for those costs. So
22 if we're going to do cost on actual cost, we can cover
23 ours within the AFE by moving the buckets. Devon
24 cannot.

25 EXAMINER BROOKS: Excuse me. There is no

1 question. You can elaborate on your answers, but at
2 some point, you know, it's just argument.

3 MR. McMILLAN: That's right.

4 EXAMINER BROOKS: Go ahead.

5 MR. McMILLAN: At some point I'm not sure
6 what it becomes.

7 EXAMINER BROOKS: Ask your next question.

8 Q. (BY MR. McMILLAN) The AFE cost estimates
9 presented thus far, you've suggested or you've testified
10 that those are in line with other wells in the vicinity,
11 is that correct --

12 A. Correct.

13 Q. -- to your mind?

14 Is it not true, though, that these are just
15 one-mile wells, and when you double your AFE, you're
16 still significantly more expensive than Devon's?

17 A. No, because Devon's AFE is well under what they
18 can actually do it for.

19 Q. Correct.

20 A. I can produce AFEs all day long that are low
21 just to get people to sign and then come in and they go
22 over, and I have to explain the overage.

23 Q. Right.

24 A. And that's predominantly what's happened in the
25 Permian Basin with these AFEs that are created from

1 nothing, the magic that somebody else gave it to me, so
2 I'm just going to use that number. And it always ends
3 up that they don't drill it for that amount.

4 Q. So the complaint is no longer that Devon's AFEs
5 are too high, but they're too low?

6 A. I have never said they were too high.

7 Q. Right.

8 A. Right.

9 MR. McMILLAN: I'm through with this
10 witness.

11 EXAMINER JONES: Mr. Brooks?

12 MR. McMILLAN: Thank you for your time.

13 CROSS-EXAMINATION

14 BY EXAMINER BROOKS:

15 Q. I just have a few questions.

16 You said that -- you talked a lot about the
17 Wolfcamp and the Bone Spring and costs. You were asked
18 a lot of questions about that in cross-examination.
19 What were the AFE estimates that Pride gave for the
20 respective formations?

21 A. 6. -- 6.672 and 6.782.

22 Q. Okay. Did that spread reflect the greater
23 depth of the Wolfcamp?

24 A. It does. The biggest difference between the
25 two is going to be the cost for the casing, which will

1 be about \$140,000 more for the Wolfcamp well.

2 Q. That's assuming you use the same casing?

3 A. No. The two casing designs are going to be
4 different. They have to be different. The Wolfcamp
5 requires a 9-5/8 to go considerably deeper in order to
6 be able to hold back the pressure that could possibly
7 encounter in the Wolfcamp Formation.

8 Q. But you don't contemplate using more strings of
9 casing for the Wolfcamp?

10 A. No, not more strings, just deepening one of the
11 strings.

12 Q. Okay. There were quite a few other items you
13 were asked about. I don't remember all of them, and I
14 don't understand all of them. But given everything
15 that's been talked about, are you, at this point -- what
16 is your confidence level that you can do these wells
17 within 110 [sic] percent of your AFEs?

18 A. Both of them can be done within a 10 percent
19 overage or underage very easily.

20 Q. You have a high-confidence level?

21 A. Very high confidence. I would say my
22 confidence level on that is 95 percent. That's barring
23 any unforeseen downhole anomalies.

24 Q. Okay. I wanted to look at your Exhibit -- I
25 believe it's 18. That's your EUR graph, if I can find

1 it. I think I stacked all of these. Here it is. Why
2 are some of these wells at five months and some of them
3 at 12 months? Is that how long they've been producing?

4 A. Yes, sir.

5 Q. Okay. So you -- the ones that produced for
6 five months and the ones that produced for 12 months?

7 A. What I did is I just put in into the OCD Web
8 site the section that I wanted, the township, range and
9 the pool that I wanted it to be in, and it popped up
10 with several wells. And to be fair, all I did was a
11 random selection. I'll select this well, this well,
12 this well, just to get a few selections. This here
13 wasn't made to base on anything for EUR. It was more
14 just to show that east-west wells weren't as prolific as
15 north-south wells.

16 Q. And the east-west are in blue --

17 A. That's correct.

18 Q. -- and the north-south are in orange?

19 A. Yes, sir.

20 Q. Now, you said that these weren't necessarily
21 any particular length, that some of them were one-mile
22 and some of them were a mile-and-a-half?

23 A. Correct.

24 Q. But none of them was two miles?

25 A. No.

1 **Q. None of them was longer than a mile and a half?**

2 A. No. Current for production numbers on the OCD
3 site, I couldn't find any for any two-mile laterals that
4 have been posted as of yet for this immediate area.

5 **Q. Okay. What does this graph show that's**
6 **relevant to this proceeding?**

7 A. This was just to show that east-west was no
8 good. It was just in relation to the letter -- or email
9 that was sent to Pride stating that Devon may want to
10 choose to drill mile-and-a-half laterals. That would
11 mean that the north half of 16 would be stranded unless
12 east-west were drilled. This was to show that east-west
13 wouldn't be economic to drill. They're just not very
14 prolific wells, and there was very few of them drilled
15 in that area. These are the only three that even popped
16 up that were east-west. The rest are all stand-up
17 wells. So --

18 **Q. Okay. Now -- so this really doesn't show you**
19 **anything to rebut the evidence offered by Devon that**
20 **longer laterals will result in greater than**
21 **proportionate EUR?**

22 A. No. Their argument was stated on their exhibit
23 that EUR is one to one for lateral length. So the more
24 footage you have, your production is going to go up
25 equally one to one.

1 Q. But after they get -- after you get past two
2 miles -- after you get past whatever the distance -- the
3 cutoff distance -- they put it on their graph. But
4 their comparison said that -- I forget whether they were
5 saying one-mile to mile-and-a-half or two miles. But
6 anyway, they said you'd get -- it was a mile and a half.

7 A. It was a mile and a half.

8 Q. Because the lateral length comparison was 1.5
9 and the EUR comparison is 1.7.

10 A. Yes. But that was based on -- we're talking
11 mile, mile and a half. We're not actually going on
12 footage. If we look at what the actual footage is on
13 those wells, the EUR is one to one on lateral length.
14 So every foot you go longer, your production goes up
15 linearly to that. You don't actually get more.

16 Q. I was trying to figure that out about his
17 graph, and it seemed to me that that was not the case,
18 that it was -- the lateral-length ratio would be 1.5 or
19 less. And maybe I'm wrong. Maybe I'm --

20 A. Well, now, see, what we have is variables in
21 there that we don't know. So the ones that were
22 one-mile long, did they frac out the toe? Where was
23 their first perforation at? We don't know where that
24 was. What was the phasing and orientation of that
25 perforation that you didn't frac out the toe? So we can

1 only assume that the 330 setback, they fracked into it
2 to some point, 5 feet, 100 feet, 300 feet. We don't
3 know because we don't have the data nor did they have
4 the data supplied to be able to figure out which way did
5 the frac go, which way did it actually get fracked.

6 **Q. I guess, then, as a generalization, you would**
7 **disagree with the theory that greater length results**
8 **in -- that greater lateral length results in greater**
9 **EUR -- in greater EUR more than on a foot-to-foot --**
10 **more than a one-to-one ratio?**

11 A. Correct. I would disagree with that.

12 **Q. You would disagree with that?**

13 A. Yes.

14 **Q. Would you disagree with that in this area or**
15 **generally?**

16 A. I'd disagree with that in this area and
17 generally speaking, too. A number of different areas
18 that I've worked in, you get to a point where the
19 further out you go and your production now becomes
20 .9 to 1 on your lateral lengths. So you're actually
21 getting less production numbers the further you go out.

22 **Q. Is there anything about this area that causes**
23 **you to specifically believe that you have -- you will**
24 **not have a favorable ratio by going to longer laterals**
25 **in this area?**

1 A. The only thing that specifically leads me to
2 believe that is the frac itself, that you aren't getting
3 as effective a frac the further out the toe is because
4 you have friction loss.

5 Q. So far as whether you'll be -- how far you
6 would be allowed to frac into another tract, we're going
7 to have to wait until the Supreme Court of New Mexico
8 decides whether they follow Texas or Pennsylvania
9 (laughter).

10 Okay. That's all I have.

11 CROSS-EXAMINATION

12 BY EXAMINER JONES:

13 Q. Well, I don't have very much either.

14 Is this that Murchison -- I think it's
15 Murchison had that --

16 A. Yeah, the Ramsey well.

17 Q. We followed that pretty closely because it was
18 kind on a new technology --

19 A. Uh-huh.

20 Q. -- where you -- and I thought you drilled a
21 vertical well later. But you drilled the vertical well
22 first, and then you intersected it?

23 A. That well was drilled prior to my company ever
24 coming in. They had actually gone in and drilled the
25 vertical, and then they tried to jet it in order to make

1 it produce.

2 **Q. Okay.**

3 A. By jetting it, they balled up the natural clay
4 and made a clay pipe in there, and it didn't produce
5 anymore. So it stopped producing. So we went out there
6 and used a cavitation [sic; phonetic] tool to open up
7 the cavity on it. And then they had drilled it actually
8 about 12 feet deeper than the Ramsey, so our idea was to
9 use the vertical one to drop the pump in. That way we
10 would be below the reservoir, so anything that's flowing
11 in will go down in that direction. And then we came in
12 with the second well, drilled it and then intersected
13 the other one with a magnetic ranging tool.

14 **Q. Excellent idea. So you used a magnetic ranging**
15 **tool?**

16 A. Yes.

17 **Q. I wondered how you did that.**

18 And I didn't realize it was the Ramsey.

19 A. Uh-huh.

20 **Q. I didn't know you could drill that -- get your**
21 **bit out that far with such a shallow vertical -- you**
22 **didn't have much weight on the bit.**

23 A. We used a rig that had pull-downs.

24 **Q. Oh, okay (laughter)?**

25 A. So we actually -- I actually lifted the rig up

1 off the ground and bent that drill pipe.

2 Q. Really? Wow.

3 A. Yes.

4 It had the capability of pulling down
5 190,000 pounds on top of string weight.

6 Q. Okay. I think it was all one lease, so there
7 wasn't any issue there.

8 A. Yeah. They owned the whole section, so that's
9 why the three wells -- we tried one; we fracked to see
10 if it gave any production numbers, and they all gave
11 about the same.

12 Q. Yeah.

13 A. It was just cheaper to drill the open-hole
14 completion.

15 Q. Yeah. It was quite interesting. It was a
16 great idea to try to get your draw-down lower, and I
17 wondered, you know, how important that is for these
18 horizontal wells, to get the draw-down lower. But maybe
19 with gas lift systems, you can do that.

20 A. With the gas lift, you can get it down quite a
21 ways now. And Weatherford actually has a hybrid-type
22 gas lift, where your gas lift and the vertical portion
23 of the well is conventional where you're pumping it, and
24 when you get to the horizontal, they actually flip it
25 around and the gas goes the other direction, comes in

1 through the tube -- or out through the tubing, and the
2 oil comes out the outside, and it switches at your
3 curve.

4 Q. Okay.

5 A. Yeah. So that's supposed to be able to draw
6 down the reservoir even further. I haven't seen that
7 technology personally being used. I've just seen the
8 case studies, and I couldn't comment. I don't have
9 firsthand knowledge.

10 Q. Okay. Wow.

11 I probably won't remember to ask
12 everything. But some of these wells that are producing
13 more, is that because they're up in the Leonard or what
14 we call -- I think our geologist calls it the Avalon,
15 which is Upper Bone Spring, and it sometimes makes more
16 CO2. Is there a way that Pride would handle gas that
17 couldn't quite get in the pipeline? Does that raise
18 any --

19 A. From what I've seen -- I haven't seen that.
20 These wells here were just pulled off the OCD site using
21 search criteria, and the search criteria gave that well
22 did not actually -- the formation that they are supposed
23 to be in -- or the pool they're in is not the formation
24 it's stating.

25 Q. Okay. Yeah. That's -- well, the Bone Spring

1 includes the Avalon. It's part of the Bone Spring
2 package unless -- except in Eddy County a little bit.

3 A. Currently, the 2nd Bone Spring, I don't see
4 anywhere that has a high concentration of CO2, so I
5 don't see that being an issue.

6 Q. So you've got good gas?

7 A. Yeah. The gas in there --

8 Q. It's still got some propane in it maybe?

9 A. Yeah. It's running at about 1380 BTU. It's
10 about an average. It might be plus or minus by 100, but
11 it should be right around in that area.

12 Q. Okay. Now, stress direction. Both Devon and
13 Pride today just seem to be basing everything on
14 empirical -- you know, drill wells one direction and get
15 good production, well, that's the way to drill.

16 A. Uh-huh.

17 Q. Do you have any idea about real stress
18 direction?

19 A. So for this specific section, no.
20 Predominantly throughout the southeast corner of
21 New Mexico, it is running northwest to a southeast, and
22 running north -- now, there are variations where we do
23 have some lay-down wells that work better because your
24 stress-fracture orientation has changed. But from what
25 I've seen, predominantly, north-south is a much better

1 option throughout this little corner of southeast
2 New Mexico.

3 Q. I think we've heard that before here. But is
4 that -- do you know if that's based on any kind of
5 actual data, or is that based on microseismic issues?

6 A. With Murchison, we did a large number of
7 microseismic in the Jackson Unit, as well as Read &
8 Stevens in their North Lea Unit. With Legacy, in their
9 Lea Unit as well, we did some microseismic there; BC
10 Operating as well. And those are all near Marathon
11 Road, those ones. And the microseismic that we did
12 there, as well as with Read & Stevens, one of the
13 fracked wells -- one of the stages of frac decided to go
14 sideways and then traveled a mile and a half. So we
15 know we didn't frac a mile and a half. We know that
16 there was a natural fracture that was running. And it
17 basically reinforced what the rest of the microseismic
18 data was showing, that the fracture was running this way
19 (indicating). And our stage that we fracked and the
20 battery that it went into -- well that was there -- kind
21 of was in line with what the rest of the data was
22 giving.

23 Q. When you look at your net pressure plots on
24 your frac stages, do you -- do you see pretty consistent
25 performance as far as -- or do you see anything breaking

1 out of zone -- or do you see anything hitting barriers
2 or breaking out of zone or pretty much flat, not Nolte
3 plots?

4 A. Yeah. I've seen -- you know, typically, if our
5 well is frac gradient, it's averaging .7. We'll see it
6 as low as .66 and as high as .74. But very rarely do I
7 see the anomaly. But we have seen where there is an
8 anomaly, where a frac gradient gets almost to the point
9 where you can't overcome it.

10 Q. So if you get -- and the Wolfcamp, if you get
11 close to this possible frac -- or possible fault that
12 Mr. Malinowsky was talking about -- I guess that would
13 be down in Section 21 anyway, so --

14 A. Yeah. That's, I believe, south.

15 Q. Are you concerned about that, if these wells
16 get approved, these two-mile wells, and Pride has an
17 interest in them?

18 A. I haven't actually seen the exhibit, so for me
19 to make a determination of where they're saying there is
20 a possible fault -- if it's within the horizontal plane
21 of that well, then yes, absolutely. It could pose a
22 risk and an issue. And depending on how much the throw
23 is, if it's within the horizontal plane, you might not
24 be able to be in it on both sides. There might be too
25 much throw that you can't direct the well at that great

1 of an angle. But, again, I haven't seen the exhibits so
2 I can't -- I'd be guessing.

3 Q. Well, they didn't show the seismic or the
4 interpretation of the seismic. He was just talking
5 about it.

6 A. Yeah. And it would just depend on where it is
7 in that section. If it's inside of the horizontal plane
8 where the horizontal portion of the well is going to be,
9 it could pose a great issue. If it's outside of it,
10 then no, it wouldn't pose any issue other than for
11 possible drainage.

12 Q. Okay. And if --

13 EXAMINER JONES: Well, what date will the
14 horizontal well rule become elective?

15 EXAMINER BROOKS: Bill told me this
16 afternoon he expects it to be filed in time to be
17 effective June 26th.

18 The reason I had said July the 15th was
19 that if it is not filed with State Records until the
20 last day of the period that we have to file with State
21 Records, then July 15th would be the day of publication,
22 which is the date the rule would become effective. Now,
23 I was assuming that lawyers always do everything on the
24 last day.

25 EXAMINER JONES: They file their taxes at

1 the last moment.

2 EXAMINER BROOKS: Bill is responsible for
3 doing this, and he is now predicting that he's going to
4 get on the ball and get it done in time to be effective
5 June 26th.

6 Q. (BY EXAMINER JONES) Okay. If that does go into
7 effect and your 100 feet is your standard now for your
8 length -- because the Horizontal Well Committee
9 automatically assumed everybody was drilling their wells
10 in the correct direction.

11 A. Uh-huh.

12 Q. So you would probably file a sundry, is that
13 correct, to change your -- and a new AFE and the whole
14 bit?

15 A. I don't think a new AFE would be needed here.
16 You're only going to add that extra 230 feet, so 230
17 feet of casing on the 5-1/2-inch is \$17 a foot,
18 basically. So it's not going to be a whole lot of cost
19 there. It might be \$2,000, \$4,000 in the casing. And
20 230 feet linearly, if I were to separate that, we're
21 going to have another stage and a half on there. So
22 it's a nominal cost increase.

23 Q. Okay. You know, the big deal here is you're
24 drilling your overburden twice if you drill one-mile
25 wells versus two-mile wells. I see that argument for

1 the increased risk of the longer wells, and also it's
2 hazard to argue it won't be quite as effective on the
3 frac at the toe of the well. But you're drilling that
4 overburden twice on your costs, and your companies are
5 interested in efficiency of using their money, so what
6 do you say about that?

7 A. Well, the largest cost in the well is the
8 completion of the well, not the drilling of the vertical
9 section. The drilling of the vertical section of a
10 well, we've gotten that down so quick now, that that's a
11 small cost of the total picture.

12 Now, for me, I want my frac money to do
13 what it's supposed to do, because that's my biggest
14 individual cost of a well, is going to be that frac, the
15 stimulation. And if my stimulation at the toe is not as
16 effective as at the heel, then I'm wasting money there.
17 Now, the further out I go, the less effective that is,
18 so I'm wasting more and more money on those stages that
19 are further and further out each time, and I don't get
20 the same reserves. I'm not going to capture the same
21 reserves.

22 Q. Okay. Thank you very much.

23 EXAMINER JONES: Now we need to let
24 Mr. Padilla do some redirect here if he's interested.

25 MR. PADILLA: I don't have any questions.

1 REDIRECT EXAMINATION

2 BY MR. PADILLA:

3 Q. The only question I would have is: Mr. Morris,
4 are there built-in contingencies in an AFE?

5 A. Yes. Typically, an AFE has between 5 and 10
6 percent contingency built into it. I myself, I like to
7 put 5 percent for tangibles and 10 percent for
8 intangibles, just because human error is a lot easier to
9 have than having a tangible issue. So there are
10 contingencies built into all AFEs.

11 Q. So that would take care of the cost overruns
12 that you're talking about?

13 A. Correct.

14 MR. PADILLA: That's all I have.

15 EXAMINER BROOKS: I have a question for
16 Mr. McMillan. Exhibit 17, was that admitted?

17 MR. McMILLAN: I believe so. That's one of
18 our notice affidavits.

19 EXAMINER BROOKS: Now, that was the letter
20 where you made -- where you made the offer to purchase
21 Pride's interest?

22 MR. McMILLAN: That was Pride's Exhibit
23 Number 17 or Devon's?

24 EXAMINER BROOKS: Oh, that's right. It's
25 Pride's.

1 MR. PADILLA: It was admitted.

2 EXAMINER JONES: Also, Exhibit 19 was
3 admitted.

4 MR. PADILLA: Yeah.

5 EXAMINER JONES: Would you like to
6 summarize with written post-hearing comments, or would
7 you -- are you interested in that at all or --

8 MR. McMILLAN: If the Examiners would like
9 a closing statement, it would be my strong preference to
10 do it in writing.

11 MR. PADILLA: That's fine with me.

12 EXAMINER JONES: Okay.

13 EXAMINER BROOKS: Well, it would be our
14 preference that you do it in writing, too (laughter).

15 EXAMINER JONES: That sounds good. We'll
16 give you a chance to look at it.

17 Now, I don't know -- if you want the
18 transcript in a hurry, you need to make a deal here.
19 Her (indicating) job is more critical than mine.

20 EXAMINER BROOKS: We're saving our promises
21 right now for people who have very major deadline
22 issues.

23 MR. McMILLAN: Okay.

24 EXAMINER BROOKS: So other than that, you
25 know, it would be like Michaelangelo and the Sistine

1 Chapel. It'll be through when I'm through.

2 EXAMINER JONES: Anyway, you can let her
3 know later.

4 MR. McMILLAN: Okay. Well, we would like
5 to know when our deadline is for getting the closing
6 statements in.

7 EXAMINER JONES: Oh, for closing
8 statements?

9 Mr. Brooks, what do you think?

10 EXAMINER BROOKS: It depends on whether
11 you're going to order the transcript or not because I
12 would not think we would want to require -- impose a
13 deadline that would require you to do that.

14 MR. McMILLAN: Why don't we do this? We
15 don't want to drive her away (laughter). I'm not sure
16 this is a situation where we absolutely need this
17 quicker than usual or anything like that.

18 EXAMINER BROOKS: Okay.

19 MR. McMILLAN: Can we say maybe seven or
20 ten days after the transcript is received? We could
21 notify you guys that we received the transcript or vice
22 versa. Once the transcript is in, give us seven to ten
23 days to process it and get you a closing statement?

24 EXAMINER BROOKS: Yes, that's fine.

25 MR. McMILLAN: Does that sound fine,

1 Mr. Padilla?

2 MR. PADILLA: That's fine.

3 MR. McMILLAN: I think we're there.

4 EXAMINER JONES: We're there.

5 Thank you-all very much.

6 The docket is closed.

7 (Case Numbers 16099 through 16104 and 16169
8 through 16174 conclude, 5:45 p.m.)

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1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

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4 CERTIFICATE OF COURT REPORTER

5 I, MARY C. HANKINS, Certified Court
6 Reporter, New Mexico Certified Court Reporter No. 20,
7 and Registered Professional Reporter, do hereby certify
8 that I reported the foregoing proceedings in
9 stenographic shorthand and that the foregoing pages are
10 a true and correct transcript of those proceedings that
11 were reduced to printed form by me to the best of my
12 ability.

13 I FURTHER CERTIFY that the Reporter's
14 Record of the proceedings truly and accurately reflects
15 the exhibits, if any, offered by the respective parties.

16 I FURTHER CERTIFY that I am neither
17 employed by nor related to any of the parties or
18 attorneys in this case and that I have no interest in
19 the final disposition of this case.

20 DATED THIS 27th day of June 2018.

21

22

23 MARY C. HANKINS, CCR, RPR
24 Certified Court Reporter
New Mexico CCR No. 20
Date of CCR Expiration: 12/31/2018
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