

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 ONE ENERGY PARTNERS CASE NO. 15758
OPERATING, LLC FOR A NONSTANDARD
SPACING AND PRORATION UNIT AND
COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.

Consolidated with

APPLICATION OF ONE ENERGY PARTNERS CASE NO. 15759
OPERATING, LLC FOR A NONSTANDARD
SPACING AND PRORATION UNIT AND
COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

August 17, 2017

Santa Fe, New Mexico

BEFORE: MICHAEL McMILLAN, CHIEF EXAMINER
 SCOTT DAWSON, TECHNICAL EXAMINER
 DAVID K. BROOKS, LEGAL EXAMINER

This matter came on for hearing before the New Mexico Oil Conservation Division, Michael McMillan, Chief Examiner, Scott Dawson, Technical Examiner, and David K. Brooks, Legal Examiner, on Thursday, August 17, 2017, 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.

REPORTED BY: Mary C. Hankins, CCR, RPR
 New Mexico CCR #20
 Paul Baca Professional Court Reporters
 500 4th Street, Northwest, Suite 105
 Albuquerque, New Mexico 87102

APPEARANCES

FOR APPLICANT ONE ENERGY PARTNERS OPERATING, LLC:

JORDAN L. KESSLER, ESQ.
MICHAEL H. FELDEWERT, ESQ.
HOLLAND & HART, LLP
110 North Guadalupe, Suite 1
Santa Fe, New Mexico 87501
(505) 988-4421
jlkessler@hollandhart.com
mfeldewert@hollandhart.com

FOR RESPONDENTS V-F PETROLEUM, INC.; FUEL PRODUCTS,
INC.; GAHR ENERGY COMPANY; AMERISTATE PARTNERS, LLC;
AMERISTATE ENERGY, LLC; HFLP E&P, LLC; THOMAS M. BEALL;
JERRY M. GAHR; MARCUS WAYNE LUNA; SANDRA K. LAWLESS;
CLIFFORD N. HAIR; and MARK K. NEARBURG:

JAMES G. BRUCE, ESQ.
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043
jamesbruc@aol.com

1	INDEX	
2		PAGE
3	Case Numbers 15758 and 15759 Called	6
4	Opening Statement by Ms. Kessler	8
5	Opening Statement by Mr. Bruce	10
6	Applicant's Case-in-Chief:	
7	Witnesses:	
8	Jeffrey M. Lierly:	
9	Direct Examination by Ms. Kessler	11
	Cross-Examination by Mr. Bruce	27
10	Redirect Examination by Ms. Kessler	30
	Cross-Examination by Examiner McMillan	31
11	Cross-Examination by Examiner Dawson	32
12	Greg Clark:	
13	Direct Examination by Ms. Kessler	34
	Cross-Examination by Mr. Bruce	40
14	Cross-Examination by Examiner McMillan	41
	Cross-Examination by Examiner Dawson	42
15	Recross Examination by Examiner McMillan	46
16	David Ramsden-Wood:	
17	Direct Examination by Ms. Kessler	47
	Cross-Examination by Mr. Bruce	68
18	Cross-Examination by Examiner Brooks	73
	Cross-Examination by Examiner Dawson	76
19	Cross-Examination by Examiner McMillan	83
20		
21		
22		
23		
24		
25		

1	INDEX (Cont'd)	
2		PAGE
3	Respondents' Case-in-Chief:	
4	Witnesses:	
5	Jerry M. Gahr:	
6	Direct Examination by Mr. Bruce	86
	Cross-Examination by Ms. Kessler	92
7	Cross-Examination by Examiner McMillan	95
	Cross-Examination by Examiner Brooks	96
8	Cross-Examination by Examiner Dawson	98
	Redirect Examination by Mr. Bruce	104
9	Recross Examinaoin by Ms. Kessler	105
10	Scott Germann:	
11	Direct Examination by Mr. Bruce	106, 109
	Voir Dire Examination by Ms. Kessler	109
12	Cross-Examination by Ms. Kessler	128
	Cross-Examination by Examiner McMillan	137
13	Cross-Examination by Examiner Dawson	141
14	Proceedings Conclude	149
15	Certificate of Court Reporter	150
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1	EXHIBITS OFFERED AND ADMITTED	
2		PAGE
3	Applicant Exhibit Numbers 1 through 14	26
4	Applicant Exhibit Numbers 15 through 17	40
5	Applicant Exhibit Numbers 18 through 27	68
6	Respondents' Exhibit Letter F	92
7	Respondents' Exhibit Numbers A through E	128
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

1 (1:30 p.m.)

2 EXAMINER McMILLAN: I would like to call
3 this hearing back to order.

4 I'm going to call Case Number 15758,
5 application of OneEnergy Partners Operating, LLC for a
6 nonstandard spacing and proration unit and compulsory
7 pooling, Lea County, New Mexico. At the same time, I
8 will be calling Case Number 15759, application of
9 OneEnergy Partners Operating, LLC for a nonstandard
10 spacing and proration unit and compulsory pooling, Lea
11 County, New Mexico.

12 Call for appearances.

13 MS. KESSLER: Mr. Examiner, Jordan Kessler
14 and Michael Feldewert, from the Santa Fe office of
15 Holland & Hart, on behalf of the Applicant.

16 EXAMINER McMILLAN: Any other appearances?

17 MR. BRUCE: Jim Bruce of Santa Fe
18 representing -- it's almost biblical, my list of parties
19 here (laughter) -- V-F Petroleum, Inc.; Fuel Products,
20 Inc.; Gahr -- that's G-A-H-R -- Energy Company;
21 Ameristate Partners, LLC; Ameristate Energy, LLC;
22 HFLP E&P, LLC; Thomas M. Beall; Jerry M. Gahr; Marcus
23 Wayne Luna; Sandra K. Lawless; Clifford N. Hair; and
24 Mark K. Nearburg, who I will simply refer to as V-F.

25 MS. KESSLER: And, Mr. Examiners, three

1 witnesses today. But before we proceed, we do have a
2 pending motion in front of the Division.

3 EXAMINER McMILLAN: Pardon?

4 MS. KESSLER: There is a pending motion in
5 front of the Division.

6 EXAMINER BROOKS: Oh, yes, there is, and
7 that is that the case involves a motion to stay. The
8 motion to stay is not to stay this hearing. It's to
9 stay the operation until -- under an APD until after the
10 hearing -- until the ruling of the case.

11 MR. BRUCE: And I would prefer to let the
12 parties testify. I have not had an opportunity to
13 respond in writing to the motion. I'd like to do that
14 briefly, say, tomorrow. But I think hearing the
15 testimony may help in the Division's resolution.

16 EXAMINER BROOKS: I was figuring the
17 parties would come warmed up to argue about it, and I'd
18 listen to argument first. But if you prefer to present
19 testimony first, let's go ahead with the testimony, and
20 we'll take it at the end of the day.

21 MR. BRUCE: Okay.

22 MS. KESSLER: That's fine. I'm prepared to
23 argue, but whenever, if it's at the end of the day or if
24 it's tomorrow, that's fine.

25 EXAMINER BROOKS: Well, it depends on the

1 timing, I guess.

2 You may proceed.

3 MS. KESSLER: Should we have our witnesses
4 sworn in?

5 EXAMINER McMILLAN: Yes, please.

6 (Mr. Lierly, Mr. Clark, Mr. Ramsden-Wood,
7 Mr. Germann and Mr. Gahr sworn.)

8 EXAMINER BROOKS: Six witnesses. We may be
9 here until tomorrow.

10 MS. KESSLER: I have a brief opening
11 statement.

12 EXAMINER BROOKS: I was going to say there
13 used to be a person who used to work here that would ask
14 me about motions to stay and motions to leave. He said
15 he may be ready to file a motion to leave before we'd
16 get through with the testimony.

17 Okay. Go ahead.

18 MS. KESSLER: Thank you.

19 OPENING STATEMENT

20 MS. KESSLER: Thank you.

21 Mr. Examiners, today the Division is
22 looking at two different development plans -- two
23 competing development plans. One is for a one-mile well
24 and -- two one-mile wells and the other is for two
25 two-mile wells.

1 I have set up a timeline for you here. My
2 client, OneEnergy, began negotiations on the two-mile
3 laterals back in February. They then proposed a
4 mile-and-a-half well in April. They finally proposed
5 two two-mile wells in May, and they filed their hearing
6 applications on June 20th. The hearing was then set for
7 July 20th.

8 By contrast, the V-F entities permitted
9 their well after July 10th, which is two months after
10 OneEnergy had proposed their two initial wells and filed
11 for compulsory pooling.

12 Now, the question is not about the timeline
13 here. The question is about which of these plans most
14 efficiently and economically develops the underlying
15 resources. So the question there is: Which plan better
16 prevents waste?

17 Now, we're operating under the precedent
18 set by the New Mexico Supreme Court in Continental Oil
19 Company versus the OCD, which was stated, in fact, that
20 prevention of waste is of paramount interest and
21 prevention of waste is, in fact, contained in the very
22 definition of correlative rights. So "correlative
23 rights is inseparable" -- I quote that -- from the
24 prevention of waste. So the Division's mandate here is
25 to prevent waste.

1 We'll establish through testimony that
2 longer laterals, two-mile laterals, prevent waste by
3 developing positional incremental recovery along the
4 leaseline and, in addition, have higher EUR recovery.
5 That will be conclusively by testimony. But by
6 definition, OneEnergy's plan here prevents waste because
7 it develops more reserves and more efficiently.

8 That's what I have. Thank you.

9 OPENING STATEMENT

10 MR. BRUCE: Mr. Examiners, if you look at
11 OneEnergy's Exhibit 1, just so you can get a layout,
12 what you're looking at is the west half of Section 1 and
13 the west half of Section 12. The west half of Section 1
14 is owned 100 percent by V-F and its working interest
15 partners and is subject to a JOA, and they're fully
16 willing, ready and able to drill wells to protect their
17 own correlative rights. The west half of Section 12,
18 I'm not sure if it's 100 percent OneEnergy, but
19 nonetheless, OneEnergy can go drill one-mile laterals,
20 and they can both protect their own correlative rights.

21 Since V-F owns the half section of land, it
22 has the legal right to go and operate and to drill
23 wells. Insofar as incremental production, that's why I
24 wanted to hold off on the arguments for the motion for a
25 stay. We will present evidence that the so-called

1 incremental production does not favor OneEnergy and, in
2 fact, it favors V-F. And, therefore, V-F believes that
3 drilling -- and there are several other things that will
4 come up in testimony -- drilling one-mile laterals in
5 this area is fair and reasonable and will allow
6 everybody to protect their correlative rights.

7 MS. KESSLER: We'll proceed with our
8 witnesses.

9 JEFFREY M. LIERLY,
10 after having been previously sworn under oath, was
11 questioned and testified as follows:

12 DIRECT EXAMINATION

13 BY MS. KESSLER:

14 Q. Would you please state your name for the record
15 and tell the Examiners by whom you're employed and in
16 what capacity?

17 A. My name is Jeff Lierly. I'm the vice president
18 of land at OneEnergy Partners, LLC and OneEnergy
19 Partners Operating, LLC.

20 Q. Have you previously testified before the
21 Division?

22 A. Yes, I have.

23 Q. Were your credentials as a petroleum landman
24 accepted and made a matter of record?

25 A. Yes, they were.

1 **Q. Can you please review your position and**
2 **experience in the Permian Basin?**

3 A. I've been with OneEnergy Partners in my current
4 capacity since January of 2017. Prior to that, I was
5 area land manager and senior landman with Matador
6 Resources from September 2015 until January 2017. Prior
7 to that, I was employed by Concho Resources or COG
8 Operating, LLC as a landman from August of 2012 until
9 September 2015. All jobs have been land matters in the
10 Permian Basin mainly in New Mexico -- Lea County and
11 Eddy County, New Mexico.

12 **Q. So you've been working in the Permian Basin**
13 **since 2012?**

14 A. Yes.

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

17 A. Yes, I am.

18 **Q. And are you familiar with the status of the**
19 **lands in the subject area?**

20 A. Yes, I am.

21 MS. KESSLER: Mr. Examiners, I tender
22 Mr. Lierly as an expert in petroleum land matters.

23 MR. BRUCE: No objection.

24 EXAMINER McMILLAN: So qualified.

25 **Q. (BY MS. KESSLER) Mr. Lierly, please turn to**

1 **Exhibit 1 and explain what OneEnergy Partners seeks in**
2 **this application?**

3 A. This is a map of our proposed Lobo Rojo B3
4 State Com 1H and 2H wells; the 1H well being comprised
5 of the west half-west half of Section 12, and the west
6 half-west half of Section 1. And the 2H being comprised
7 of the west half-west half -- or excuse me -- the east
8 half-west half of Section 12 and the east half-west half
9 of Section 1. And we're seeking to pool all uncommitted
10 working interest owners in the Bone Spring Formation and
11 also seeking to establish an approximate 320-acre
12 nonstandard spacing and proration unit.

13 Q. **Approximately 322 acres? Does that sound**
14 **right?**

15 A. Yes, for each one.

16 Q. **Why are you proposing to drill two two-mile**
17 **horizontal wells?**

18 A. We believe this is the most economic way to
19 develop the reservoir.

20 Q. **And that will be discussed by an engineer; is**
21 **that correct?**

22 A. Yes.

23 Q. **Is Exhibit 2 the draft plat for the Lobo Rojo**
24 **B3 State Com #1H well?**

25 A. Yes. This is, again, our C-102. It depicts

1 the 1H well that, again, is comprised of the west
2 half-west half of Section 1 and the west half-west half
3 of Section 12.

4 Q. So this has not been submitted, correct?

5 A. No, it has not.

6 Q. Did the Division designate a pool for this
7 unit?

8 A. Yes. Both of these wells are located in the
9 Ojo Chiso; Bone Spring Pool.

10 Q. Pool Code 96553?

11 A. Yes, it is.

12 Q. Is this pool governed by Division statewide
13 rules?

14 A. Yes, 330-foot setbacks from the lease line and
15 40-acre spacing.

16 Q. Is this well orthodox under the statewide
17 rules?

18 A. Yes, it is, both of them.

19 Q. Okay. And is this particular spacing unit
20 comprised of state and fee land?

21 A. The 1H is, yes. The west half-west half of
22 Section 1 is one state lease. The northwest-northwest
23 of Section 12 is comprised of multiple fee leases, and
24 the southwest-northwest and the west half-southwest of
25 Section 12 is another state lease.

1 **Q. Is Exhibit 3 the draft C-102 for the Lobo Rojo**
2 **B3 State Com #2H well?**

3 A. Yes, it is.

4 Again, this is the 2H well that's comprised
5 of the east half-west half of Section 1 and the east
6 half-west half of Section 12. And both of these --
7 they're actually two state leases in this well, so no
8 fee acreage.

9 **Q. Same pool as the 1H well, correct?**

10 A. That's correct.

11 **Q. Will this well also be orthodox under the**
12 **Division statewide setbacks?**

13 A. Yes, it will.

14 **Q. Is Exhibit 4 an ownership breakdown of the 1H**
15 **well?**

16 A. Yes. The map depicts our proposed spacing
17 units, the tracts associated with the 1H well, and then
18 you'll see below the ownership on a tract basis and on a
19 unit basis, with the owners highlighted in yellow being
20 the uncommitted working interest owners that we're
21 seeking to pool in the 1H well.

22 **Q. So you seek to pool all of the uncommitted**
23 **interests for Tracts 2 and 3, correct?**

24 A. No. Tract 1.

25 **Q. I'm sorry. You seek to pool the uncommitted**

1 **interest owners in Tracts 2 and 3?**

2 A. No. We own --

3 **Q. Oh, I'm sorry. I'm sorry.**

4 A. Tracts 2 and 3 is OneEnergy Partners and
5 Marathon, respectively, that are committed and -- not
6 uncommitted working interest owners. So --

7 **Q. In Section 12, does OneEnergy own 100 percent**
8 **of the working interest?**

9 A. No. We own 100 percent of Tract 3, and we own
10 approximately 86 percent of Tract 2. So on a unit
11 basis, it's runs about 240 [sic] acres per well.

12 **Q. Who is the other owner in Tract 2?**

13 A. Marathon Oil, LLC.

14 **Q. Do they support OneEnergy Partners' proposal?**

15 A. Yes, they do. They've executed a JOA and AFEs
16 in favor of the two-mile development plan.

17 **Q. So you have 100 percent commitment or control**
18 **of the west half-west half of Section 12, correct?**

19 A. Yes, ma'am.

20 **Q. Is Exhibit 5 an ownership breakdown for the 2H**
21 **well?**

22 A. Yes, it is.

23 Similar to the 1H, it shows ownership on a
24 tract and on a unit basis, with the uncommitted interest
25 owners highlighted in yellow being the working interest

1 owners in Tract 1 that we're seeking to pool.

2 Q. And Tract 2 or the east half-west half of
3 Section 12 here is 100 percent owned by OneEnergy
4 Partners; is that correct?

5 A. Yes, ma'am.

6 Q. Did you initially propose two 1.5-mile wells?

7 A. Yes, we did. And then after discussions that
8 we had with one of V-F's landmen, they indicated that
9 they were concerned about stranded acreage in the
10 northwest quarter of Section 1. So after we had a
11 meeting with them in person, we told them that we were
12 in favor of a two-mile development. We felt that it was
13 more efficient than the mile-and-a-half.

14 Q. So you subsequently proposed two two-mile
15 laterals, correct?

16 A. Yes, we did.

17 Q. Let me take a step back. When did you propose
18 your mile-and-a-half laterals?

19 A. In April of 2017. So I think April 25th is the
20 date of the proposal letter.

21 Q. And you met with V-F shortly thereafter?

22 A. I think approximately May 22nd or so.

23 Q. Is when you met with V-F?

24 A. Yes.

25 Q. What is Exhibit 5?

1 A. This is the two-mile well proposal for Lobo
2 Rojo 1H well that was sent to all working interest
3 owners.

4 Q. That's actually Exhibit 6. That's my mistake.
5 We're on the correct exhibit. I just said it wrong.

6 A. Okay. Again, this is the two-mile. So this is
7 the second well proposal that was sent to V-F, et al. in
8 May of 2017.

9 Q. And this is just a copy that was sent to V-F,
10 but did you send an identical letter to all of the
11 uncommitted interest owners?

12 A. Yes, ma'am, we did.

13 Q. And you sent this May 30th, correct?

14 A. Yes, we did.

15 Q. Is Exhibit 7 a copy of the AFE that was sent
16 attached to the well-proposal letter?

17 A. Yes. And as you'll see, it was dated April
18 25th. Yes. This is associated with our 1H well.

19 Q. What is the total cost of the well?

20 A. Approximately \$9.8 million.

21 Q. Have you reviewed AFEs for other two-mile Bone
22 Spring wells in the area?

23 A. We have.

24 Q. Are the costs consistent on this AFE with what
25 other operators in the area charge for similar two-mile

1 Bone Spring wells?

2 A. Yes.

3 Q. Has OneEnergy Partners made an estimate of
4 overhead and administrative costs while drilling and
5 producing this well?

6 A. Yes, 7,000 a month while drilling and 700 a
7 month while producing.

8 Q. Let's look at Exhibit 8. Is this the
9 well-proposal letter that you sent for the 2H well?

10 A. Yes, it is.

11 Q. And, again, you sent -- this is just a copy,
12 but you sent an identical letter to all of the other
13 interest owners?

14 A. Yes. This was sent to all working interest
15 owners that own in the east half-west half of Section 1.

16 Q. The AFE for this well, which was included with
17 the well-proposal letter, is included as Exhibit 9,
18 correct?

19 A. Yes, it is.

20 Q. And, again, you've reviewed other two-mile Bone
21 Spring wells. Are the costs for this well similar to
22 what other operators charge for other two-mile Bone
23 Spring wells?

24 A. They are. And it's actually probably lower
25 than some of the ones we've seen.

1 Q. For this well, have you also identified
2 overhead and administrative costs for drilling and
3 producing?

4 A. Correct. We're, similar to the 1H, requesting
5 7,000 a month while drilling and 700 a month while
6 producing.

7 Q. Is this cost in line with what other operators
8 in the area charge for similar wells?

9 A. Yes, they were.

10 Q. Do you ask that these costs be incorporated
11 into any order resulting from this hearing?

12 A. We do.

13 Q. Do you ask that the costs be adjusted in
14 accordance with the appropriate accounting procedures?

15 A. Yes, we do.

16 Q. For uncommitted working interest owners, do you
17 request the Division impose a 200 percent risk penalty?

18 A. Yes, we do.

19 Q. In addition to sending these two well-proposal
20 letters, what other efforts did you undertake to reach
21 agreement with the -- I'll call them the V-F parties or
22 V-F entities, if that works?

23 A. Either myself or other employees of V-F had
24 multiple phone calls, email correspondence, text
25 messages, in-person meetings, multiple mailing

1 correspondence.

2 Q. Is Exhibit 10 a communication log that you put
3 together for the Division outlining and summarizing your
4 communications, offers and calls between OneEnergy and
5 the V-F entities?

6 A. Yes, it is. And you can see the initial
7 discussions began in February of 2017.

8 Q. So you've been communicating with them about
9 leasing their interest or participating since February;
10 is that correct?

11 A. We've -- yes, trying to work a deal for first
12 lateral development, and then we offered a number of
13 structures, proposals that we feel provides multiple
14 avenues for them to develop efficiently.

15 Q. Let's look at Exhibit 11. Is this a summary of
16 the various types of deal offers that you made to the
17 V-F entities over the past six months?

18 A. Yes, it is.

19 Q. Can you please review these?

20 A. We've offered to purchase their interest, which
21 would be an assignment of oil and gas. There's oil --
22 excuse me -- assignment of oil and gas lease in which
23 they could reserve an override and receive cash up
24 front. That would be an outright assignment. We've
25 proposed a term assignment for cash and an override that

1 if we didn't develop it, it would eventually revert back
2 to them. We've proposed farming in, where they would
3 have a back-end and reserve override. We proposed
4 cash-carries, which would mean we would basically pay
5 for their working interest through the tanks, so they
6 would be a participating working interest at -- costs.
7 We also proposed to -- once we drilled one of the wells
8 and got it on line, HBP their these, to convert a
9 marginal gas well in Section 1 into a SWD.

10 So we've provided many different unique
11 deal structures that I think show that we've been trying
12 to do a deal.

13 **Q. Again, this is since February of 2017?**

14 **A. Yes.**

15 **Q. Approximately how many different offers have**
16 **you made to the V-F entities?**

17 **A. I mean, these are five different ones right**
18 **here. And so we've had numerous phone-call discussions**
19 **and everything. You can go back to Exhibit 10 and kind**
20 **of review that.**

21 **Q. In your opinion, have you made a good-faith**
22 **effort to reach an agreement with the V-F entities?**

23 **A. Yes.**

24 **Q. Are you familiar with Exhibits 12 and 13?**

25 **A. Yes. These are the C-102 plats for the Getty 1**

1 State 2H, which is comprised of the west half-west half
2 of Section 1, 22 South, 34 East, and then also V-F's
3 proposed Getty 1 State 3H, which is comprised of the
4 east half-west half of Section 1, 23 South, 34 East.

5 **Q. Do these two plats or permits conflict with**
6 **OneEnergy Partners' proposed wells?**

7 A. They do. They're also proposed to develop the
8 reservoir on a one-mile spacing. And, again, we filed
9 in July of 2017.

10 **Q. So OneEnergy Partners formally proposed the**
11 **wells -- their two wells on May 30th; is that correct?**

12 A. I'd say initially April and then subsequently
13 the two-mile in May. Yes.

14 **Q. And when did OneEnergy Partners file for**
15 **hearing for their two compulsory pooling applications?**

16 A. The week of June 20, 2017.

17 **Q. Did the V-F entities subsequently request**
18 **a hearing?**

19 A. They did. We were supposed to be on the July
20 20th docket. They asked for a continuance, and we
21 agreed to give them a continuance, which between that
22 time, they obtained these APDs.

23 **Q. On what date is the operator certification for**
24 **these two plats signed?**

25 A. July 10th, 2017.

1 Q. So they must have been submitted at some point
2 after July 10th; is that correct?

3 A. It would appear so.

4 Q. That would be at least a couple of months after
5 OneEnergy Partners proposed the wells, several months?

6 A. Over two.

7 Q. And after OneEnergy Partners filed for
8 compulsory pooling, correct?

9 A. Approximately two to three weeks after.

10 Q. And after they received their continuance,
11 correct?

12 A. Correct.

13 Q. Are you aware of any steps that V-F has taken
14 besides filing these two permits to develop their
15 leases?

16 A. No. I know from speaking to a surface owner
17 that owns in the northwest-northwest of Section 12 that
18 they've staked locations without notifying them, and
19 some of these locations were relatively close to his
20 personal home. But that's on the development plan.

21 Q. Are you aware that the surface owner objected
22 to those surface locations?

23 A. Yes, just due to the fact that I think the 2H,
24 which would be in the west half-west half -- the
25 surface-hole location is to be 1,500 feet away from his

1 personal residence, so the truck traffic would go down
2 his driveway to access the proposed surface location.

3 Q. What is OneEnergy Partners' time frame for
4 developing this acreage?

5 A. We would -- we're picking up a rig, I think, in
6 October, so we would be -- we've got one well to drill
7 prior to this and develop it afterwards. But David, who
8 will be testifying later, can walk you through the exact
9 timing because he knows the contract.

10 Q. But you do have a rig contracted to drill this
11 acreage?

12 A. I would defer to David.

13 Q. Did you identify the offset operators or
14 interest owners in the 40-acre tract surrounding these
15 nonstandard units?

16 A. Yes, we did.

17 Q. Were they provided notice of this hearing?

18 A. Yes, they were.

19 Q. Is Exhibit 14 an affidavit prepared by my
20 office with attached letters showing, first of all,
21 virtually illegible two copies of the Notice of
22 Publication, also attached letters providing notice to
23 the parties, both the compulsory pooled and the offsets,
24 for both the 1H and 2H wells?

25 A. Yes, they are.

1 MS. KESSLER: And, Mr. Examiner, all of the
2 pooled parties received actual notice, as you'll see
3 from the returned green cards.

4 Q. (BY MS. KESSLER) Mr. Lierly, in your opinion,
5 will the granting of these applications be in the best
6 interest of conservation, for the prevention of waste
7 and for the protection of correlative rights?

8 A. Yes.

9 Q. And were Exhibits 1 through 13 prepared by you
10 or compiled under your direction and supervision or
11 compiled from company business records?

12 A. Yes. I'd say we provided you-all with their
13 C-102, but they obviously furnished it to the OCD.

14 MS. KESSLER: Mr. Examiners, I would tender
15 admission of Exhibits 1 through 14.

16 MR. BRUCE: No objection.

17 EXAMINER McMILLAN: Exhibits 1 through 14
18 may now be accepted as part of the record.

19 (Applicant Exhibit Numbers 1 through 14 are
20 offered and admitted into evidence.)

21 EXAMINER McMILLAN: Before we go any
22 further, these two Affidavits of Publication are
23 illegible so make another copy.

24 MS. KESSLER: We will.

25

1 CROSS-EXAMINATION

2 BY MR. BRUCE:

3 Q. Mr. Lierly, let's go first to Exhibits 12 and
4 13?

5 A. Which one first? Both?

6 Q. Exhibits 12 and 13.

7 Your own title search showed that V-F owns
8 100 percent of the working interest, V-F and its
9 partners, in the half section of land, correct?

10 A. Yes, sir.

11 Q. And those are legal well locations and legal
12 project areas, correct?

13 A. They appear to be, yes.

14 Q. And as owners of the interest in each
15 quarter-quarter section, they have the right to file
16 those APDs; do they not?

17 A. Yes.

18 Q. And let's go to Exhibit 11. What amounts of
19 cash will you offer to purchase V-F's interest for?

20 A. We've offered anywhere from 7,500 an acre to
21 deliver 75 percent NRI up to 15,000 to deliver 75
22 percent NRI, which is pretty comparable to recent market
23 acreage at the state sale.

24 Q. At the July state lease sale, did OneEnergy buy
25 a state lease within a couple of miles of your section?

1 A. We did. We got the east half of Section 19, 22
2 South, Range 35 East.

3 **Q. And what did you pay for that?**

4 A. We paid approximately \$18,000, a little bit
5 over, but, again, that was for 80 percent NRI. So I
6 would argue that if you look at the economics, which
7 David will probably attest to, 75 percent NRI at
8 \$15,000, it's still a better deal from a relative
9 valuation standpoint.

10 **Q. In looking at your Exhibit 1, at one point, did**
11 **OneEnergy propose to the interest owners in Section 12**
12 **drilling one mile east-west well units?**

13 A. Can you repeat that again?

14 **Q. In Section -- your Section 12 --**

15 A. Sure.

16 **Q. -- at one point, did OneEnergy consider**
17 **drilling east-west laterals?**

18 A. No.

19 **Q. Does OneEnergy have a deadline for commencing a**
20 **well in Section 12?**

21 A. We have fee acreage and term assignments that
22 do have term, so I guess there are expirations.

23 **Q. Near term or long-term?**

24 A. I guess it depends how you define that.

25 **Q. Less than six months?**

1 A. No.

2 **Q. Less than a year?**

3 A. No, not for us. I can't speak to Marathon's
4 expirations. They did acquire a number of fee leases
5 from Black Mountain that were taken, I think, from 2015
6 to earlier this year, I want to say. So Marathon might
7 have expirations sooner than ours.

8 **Q. Was one of the JOAs that you sent to V-F for a**
9 **Wolfcamp well?**

10 A. Nope. We've only proposed the Lobo Rojo 1H and
11 2H, which have been Bone Spring wells.

12 **Q. 3rd Bone Spring?**

13 A. Yes, sir.

14 **Q. Are you drilling any wells in New Mexico at**
15 **this point, actively drilling?**

16 A. We just released a rig. David can tell you
17 exactly when. But we've drilled a mile and a
18 mile-and-a-half Wolfcamp wells. And, let's see, the
19 mile is in the west half of -- west half-west half of
20 Section 2, 25-35, and the mile-and-a-half offset is in
21 the west half-east half of Section 2 and the west
22 half-northeast of Section 11, 25-35. So we've done the
23 toe prep, and we're about to complete both of those
24 wells in the very near future.

25 **Q. And you said one of your initial proposals was**

1 **for a one-and-one-half-mile lateral, correct?**

2 A. Yes. I think at the time we were kind of
3 unaware of what was going on. I think to the section
4 the north, I think there was -- there was kind of
5 competing development plans. And then once we,
6 obviously, got their input on the desire to not strand
7 acreage, we repropose two miles.

8 **Q. Just give me one minute here.**

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

11 Thank you, Mr. Lierly.

12 MS. KESSLER: Mr. Examiner, may I have very
13 brief redirect?

14 EXAMINER BROOKS: I think that's okay.

15 EXAMINER McMILLAN: Yeah.

16 REDIRECT EXAMINATION

17 BY MS. KESSLER:

18 **Q. Mr. Lierly, let's look at Exhibit 10.**

19 **Mr. Bruce asked you about the dollar amounts per**
20 **acreage -- per acre that were included in the last deal**
21 **offers. Can you please tell me what V-F's response to**
22 **that was?**

23 A. I believe we had a phone call with Jerry Gahr
24 of V-F Petroleum on August 3rd. That's when the offer
25 was made for \$15,000 an acre to deliver 75 percent NRI.

1 Jerry said, No, it's not enough money; however, you
2 know, we'll sell the Bone Spring for \$25,000 an acre or
3 everything for \$40,000 an acre or, in the alternative,
4 we'll pay OEP \$20,000 an acre for your position on all
5 depths to get off the well.

6 Q. And so I understand that they offered to pay
7 less than the total value for what you offered for your
8 acreage; is that correct?

9 A. Yes.

10 MS. KESSLER: That's all I have.

11 CROSS-EXAMINATION

12 BY EXAMINER McMILLAN:

13 Q. Are there -- let's see. Are there any
14 unlocatable interests? That wasn't clear enough.

15 A. No. We've had -- we've got green cards for
16 every working interest owner. There have been a few
17 subsequent cash-purchase offers and well proposals that
18 were returned to the working interest owners, but,
19 again, those were subsequent mail-ins.

20 Q. And there are no depth severances?

21 A. Not that I'm aware of.

22 EXAMINER McMILLAN: Go ahead.

23 EXAMINER BROOKS: I don't have anything.

24 EXAMINER DAWSON: I had a couple of
25 questions.

1 CROSS-EXAMINATION

2 BY EXAMINER DAWSON:

3 Q. You said that you drilled some wells in the
4 west half-west half of 2 of 25-35, a mile-and-a-half?

5 A. We drilled the County Fair well, which is a
6 single-mile Wolfbone well in the west half-west half of
7 Section 2, 25-35, and the Parade State was the
8 mile-and-a-half in the west half-east half of Section 2.
9 In the west half-northeast of Section 11, that was the
10 mile-and-a-half Wolfcamp well, both in 25-35.

11 Q. Can you give me an idea of what the
12 comparison -- have they been producing awhile, or do you
13 know which well --

14 A. Like I said, we have fracked the well and done
15 the toe prep. And David can tell you, because he's
16 chief operating officer, as far as the timing.

17 Q. That's 20 miles away, roughly?

18 A. Sure. Yes.

19 Q. On the -- let's see if I'm in the right -- give
20 me a minute.

21 On your Exhibit 11, the cash and carry --

22 A. Cash-carry.

23 Q. -- would that be you carry over a certain
24 back-end up to the completed cost of the well until the
25 well is completed?

1 A. It would be -- the back-end would be associated
2 with the farm-outs. The cash-carry would be the entire
3 working interest to earn a percentage of their interest
4 in the lease. So say, for example, we pay all costs
5 through the tanks, so they have literally no working
6 interest burdens or anything. And we would carry
7 them -- we would earn 75, 80 percent of the leasehold,
8 but then they would still be carried on the 20 percent
9 working interest, and it would be the override
10 difference between 25 percent and existing burden, so
11 about a 5 percent override.

12 **Q. So that would be through the completion of the**
13 **well? I mean, some operators do it just while drilling,**
14 **but that would be all the way through completion?**

15 A. That would be drilling, completing and
16 equipping. So literally they would have nothing except
17 to subsequent -- workover.

18 **Q. You feel like all these deal structures that**
19 **you proposed to them were all in good faith and were**
20 **fair --**

21 A. I do.

22 **Q. -- proposals?**

23 A. You know, we've -- as you can see from just the
24 different options, we've tried to find an amenable
25 avenue to develop the reservoir by acquiring their

1 interest, cash up front, and/or developing and paying
2 for the entire cost of both wells and allowing them to
3 participate for free, essentially, for a lesser working
4 interest. So I do believe everything was made in good
5 faith.

6 **Q. That's all the questions I have. Thank you.**

7 EXAMINER BROOKS: No questions.

8 MS. KESSLER: We'll call our next witness.

9 EXAMINER McMILLAN: Thank you very much.

10 GREG CLARK,
11 after having been previously sworn under oath, was
12 questioned and testified as follows:

13 MS. KESSLER: May I proceed?

14 EXAMINER McMILLAN: Yes.

15 DIRECT EXAMINATION

16 BY MS. KESSLER:

17 **Q. Please state your name for the record.**

18 A. Greg Clark.

19 **Q. Are you a consulting geologist for OneEnergy**
20 **Partners?**

21 A. Yes.

22 **Q. Have you been retained to review the geology in**
23 **the subject area?**

24 A. I have.

25 **Q. And to provide geology testimony for the two**

1 **applications?**

2 A. Yes.

3 **Q. Have you previously testified before the**
4 **Division?**

5 A. I have.

6 **Q. Have you previously testified on behalf of**
7 **OneEnergy Partners?**

8 A. Yes.

9 **Q. Are you familiar with the applications that**
10 **have been filed by OneEnergy Partners in these**
11 **consolidated cases?**

12 A. I am.

13 **Q. And have you conducted a geologic study of the**
14 **area?**

15 A. Yes, I have.

16 MS. KESSLER: Mr. Examiners, I tender
17 Mr. Clark as an expert in petroleum geology.

18 MR. BRUCE: No objection.

19 EXAMINER McMILLAN: So qualified.

20 **Q. (BY MS. KESSLER) Mr. Clark, let's look at**
21 **Exhibit 15. Can you please identify this exhibit?**

22 A. Yes. This is a regional structure map on top
23 of the 3rd Bone Spring Sand. It's in subsea elevation.
24 The contour intervals are 100 feet. You will see that
25 the Lobo Rojo B3 1H and 2H are depicted by the red line

1 with the surface hole being the square and the
2 bottom-hole location being the circles. You will see
3 that there is a regional structural trend from the
4 northeast to the southwest, which fits the base and
5 model for the Delaware Basin. To the west of the Lobo
6 Rojo locations, you'll see that there is a structural
7 high in the subsea depth of 7,300, which is depicted by
8 the contour with the hachures on the outside of the
9 line.

10 The main purpose of this exhibit is to show
11 that there are no geologic impediments to keep from
12 drilling these wells using two-mile horizontals. There
13 is no faulting or no major folding that would make the
14 reservoir inconsistent throughout Section 1 and Section
15 12.

16 Q. Is Exhibit 16 the same map with a structure
17 around that line of section drawn on it?

18 A. That is correct.

19 Q. And the A to A prime line corresponds with your
20 cross-section exhibit, correct?

21 A. Yes.

22 Q. Do you consider the wells used in your
23 three-section cross-section exhibit representative of
24 Bone Spring wells in the area?

25 A. I do.

1 **Q. And is Exhibit 17 is a cross section --**

2 A. Yes, it is.

3 **Q. Please review this exhibit for the Examiners.**

4 A. As stated, this is a stratigraphic cross
5 section, A to A prime, going from the southwest to the
6 north-northeast and is representative of the areas --
7 geologic areas in Sections 1 and 12. You'll see that
8 the two wells on the -- on the right of the cross
9 section are LAS files, digital well log files, and then
10 the well to the left log is a Raster image. The first
11 track is the gamma ray, and the second track are the
12 neutron-density porosities, with a scale of .3 to the
13 left and negative .1 on the right.

14 This is, again, a stratigraphic cross
15 section. The structural component has been taken out in
16 order to show the stratigraphic relationship of the 3rd
17 Bone Spring Sand throughout the area in question. And
18 if you look at the porosity curves, they're very similar
19 in nature. There are no major differences within the
20 porosities within these two sections based on these
21 logs, and no major thinning or thickening that would
22 impede us from drilling these wells using two-section --
23 or two-mile horizontal wells.

24 You will see that the orange marker is the
25 top of the 3rd Bone Spring Sand, and you will see that

1 the purple marker, in which we hung the cross section
2 on, is the top of the Wolfcamp. Now, as the previous
3 exhibit stated on the structure map, that the structure
4 is relatively consistent throughout these two sections
5 and that the TVD approximately for the base of the 3rd
6 Bone Spring, which is the top of the Wolfcamp,
7 corresponds to roughly around 11,250 feet.

8 **Q. So you called out the landing interval. That's**
9 **for both of the proposed wells, correct?**

10 A. Yes.

11 **Q. Approximately what depth?**

12 A. That is approximately going to be between
13 11,150 TVD and 11,200. We want to focus on the bottom
14 third of the basal 3rd Bone Spring Sand.

15 **Q. The base of the 3rd Bone Spring Sand, in your**
16 **expert opinion, is 11,250 feet?**

17 A. Roughly within that. The base is roughly -- in
18 terms of TVD, right? It can vary based off of surface
19 topography or KB elevation, but, roughly, with these two
20 wells, we're looking at 11,250 feet, plus or minus, you
21 know, 50 feet, depending on what was previous stated.

22 **Q. Any major differences apparent in your logs**
23 **between the geology in Section 1 and Section 12?**

24 A. No.

25 **Q. No major thickening or thinning of the**

1 **formation?**

2 A. No. Very similar porosities. The porosities
3 are within the standard measurement of the porosity
4 tools, which is 1-and-a-half PU. And you'll see that
5 the red, which is the density-porosity values or
6 corresponding intervals, are within that 1 --
7 1-and-a-half PU, which is the standard tolerance of the
8 density tool when they calibrate it with the logging
9 companies.

10 **Q. Okay. Based on your geologic study of this**
11 **area, have you identified any geologic impediments or**
12 **hazards to developing the area using two-mile wells?**

13 A. I have not.

14 **Q. In your opinion, can the area be efficiently**
15 **and economically developed by horizontal wells?**

16 A. Yes.

17 **Q. And do you believe that each tract and each of**
18 **the proposed two-mile nonstandard units will contribute,**
19 **on average, more or less equally to the production from**
20 **each of the wells?**

21 A. Yes.

22 **Q. In your opinion, will granting OneEnergy**
23 **Partners' applications be in the best interest of**
24 **conservation, for the prevention of waste and for the**
25 **protection of correlative rights?**

1 A. Yes.

2 Q. Were Exhibits 16 -- excuse me -- 15 through 17
3 prepared by you or compiled under your direction and
4 supervision?

5 A. Yes, they were.

6 MS. KESSLER: Mr. Examiners, I'd move
7 admission of Exhibits 15 through 17.

8 EXAMINER BROOKS: Mr. Bruce?

9 MR. BRUCE: I have no objection.

10 EXAMINER McMILLAN: Exhibits 15 through 17
11 may now be accepted as part of the record.

12 (Applicant's Exhibit Numbers 15 through 17
13 are offered and admitted into evidence.)

14 CROSS-EXAMINATION

15 BY MR. BRUCE:

16 Q. Just a couple of questions, Mr. Clark. Have
17 you also looked at the Wolfcamp in this area?

18 A. I have looked at the Wolfcamp in this area.

19 Q. And what is the -- if you know. Obviously, you
20 don't have a plat on it. What is the difference in
21 footage from the bottom of the 3rd Bone Spring to the
22 Wolfcamp, what is usually referred to as the A zone?

23 A. So where I have the purple marker is what I am
24 calling the top of the Wolfcamp interval.

25 Q. Okay.

1 A. So that's where you go from Wolfcamp to 3rd
2 Bone Spring, which is a major first order sequence
3 boundary.

4 Q. Okay. And then this might not be the right
5 question for you, but -- and if so, just tell me and
6 I'll -- if you look at Exhibit 7, in the AFE, what are
7 the casing and the pipe sizes that the well will be
8 drilled with, or do you know, or would another witness
9 know that?

10 A. No. I believe David will be able to answer
11 those questions.

12 Q. Thank you.

13 A. You're welcome.

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

16 CROSS-EXAMINATION

17 BY EXAMINER McMILLAN:

18 Q. Have you looked at isopach intervals?

19 A. I have done some internal isopach intervals.
20 Yes, sir.

21 Q. But you have nothing of record?

22 A. Well, if you look at the cross section, that,
23 in essence, is a isopach, and that's the reason why I
24 flattened it on top of the Wolfcamp. And you can see by
25 the nature of the top of the 3rd Bone Spring versus the

1 top of the Wolfcamp that there is no significant
2 thickening or thinning throughout the interval within
3 these wells, which are representative of the area. And
4 the two wells where I used the LAS are the closest
5 wells. There is one in Section 1, and the other one is
6 in Section 2, which are in proximity to the area of
7 question. There is roughly about 15 -- 10 to 15 feet
8 gross interval difference as you go from Section 12 to
9 Section 1, which is -- which is negligible when you're
10 talking over 300 feet.

11 Q. So it's almost constant?

12 A. Yes, sir.

13 EXAMINER BROOKS: No questions.

14 EXAMINER McMILLAN: Go ahead.

15 CROSS-EXAMINATION

16 BY EXAMINER DAWSON:

17 Q. I have a couple of questions of you. Okay?

18 You're saying between Section 1 and Section
19 12, there is like a 10- to 15-foot difference?

20 A. Just in the gross interval. So -- and I'm --
21 I'm looking at that on the cross section, so Exhibit 17.
22 This is the gross interval. As you can see, there is no
23 major thickening or thinning throughout the 3rd Bone
24 Spring Sand. And if I had to estimate, I would say
25 there is maybe a 10- or 15-foot gross interval

1 difference, which is negligible.

2 Q. So would you think it would be thicker in 12 or
3 in 1?

4 A. So it'll be slightly thicker -- gross interval
5 would be slightly thicker in 12 -- no. 1. I'm sorry.

6 Q. Or 1. Okay.

7 In your landing interval on your cross
8 section --

9 A. Yes, sir.

10 Q. -- in Exhibit 17 --

11 A. Uh-huh.

12 Q. -- those other wells in the cross section, the
13 Chiso 8711 JV-P and the Getty 1 State, did either of
14 those wells produce from the 3rd Bone Spring?

15 A. No, sir.

16 Q. And in your landing interval, that would be
17 probably like -- mostly you would expect to be closer to
18 the New Mexico DU State #1 well, correct?

19 A. That is correct.

20 Q. On your proposed well?

21 A. Yes, sir.

22 Q. And you said that the Wolfcamp in the area does
23 produce, in the immediate area?

24 A. I'm not aware of any Wolfcamp producers in the
25 immediate area, but, geologically, it looks prospective.

1 Q. Okay. And looking at that New Mexico DU State
2 #1 log on Exhibit 17, on your cross section --

3 A. Yes, sir.

4 Q. -- can you kind of -- can you see where maybe
5 that Wolfcamp could be productive?

6 A. I haven't done a thorough analysis to the
7 Wolfcamp in order to provide a landing interval within
8 the Wolfcamp, so -- but you have similar porosities, if
9 you look at the 3rd Bone Spring Sand in the Wolfcamp, as
10 you do in the 3rd Bone Spring Sand, and based off of
11 that data alone would lend me to say that the Wolfcamp
12 could be prospective. But we do have offset wells in
13 the area that have landed in the 3rd Bone Spring Sand
14 and have shown to be productive. So it would be less
15 risky to land in the 3rd Bone Spring Sand at this time.

16 Q. Is the 3rd Bone Spring in that area, is it
17 higher pressure than the 1st and 2nd Bone Spring?

18 A. Yeah. You tend to increase in pressure as you
19 start getting into the basal 3rd Bone Spring Sand, but
20 when you get into the Wolfbone is where you see more of
21 a pressure increase.

22 Q. And your 3rd Bone Spring or 2nd Bone Spring --
23 your 3rd Bone Spring in the area, they've been good
24 wells, larger wells?

25 A. Yes.

1 Q. They worked out well for you?

2 A. Yes, sir. We like them.

3 Q. Have you drilled any other two-mile wells in
4 the area?

5 A. No.

6 Q. Do you drill just one-mile wells in the area or
7 one-and-a-half?

8 A. So OEP, we've drilled one 3rd Bone -- two
9 wells, one mile and one mile-and-a-half, which is 20
10 miles to the south.

11 Q. That's the ones you were talking about?

12 A. Yes, sir.

13 But there are offset wells, if you go back
14 to -- if you just look at -- let's just look at Number
15 16. So in the section just to the west of 12, you'll
16 see that -- it's kind of faint on the map, but those are
17 3rd Bone Spring wells directly offsetting.

18 Q. Are those -- are those wells one-mile or
19 two-mile laterals?

20 A. Those are one-mile.

21 Q. Has anybody else been drilling any two-mile
22 laterals?

23 A. I'm not aware in the area of any two-mile
24 laterals.

25 Q. But there have been some one-and-a-halves, too,

1 **right?**

2 A. There have been one-and-a-halves further to the
3 west, which I think is going to be provided as an
4 example with David, the chief operating officer's
5 testimony.

6 **Q. All right. That's all the questions I have.**
7 **Thank you.**

8 A. You're welcome.

9 CROSS-EXAMINATION

10 BY EXAMINER McMILLAN:

11 **Q. I have another question. Are those wells in**
12 **Section 11 -- are they correlative with the landing**
13 **interval?**

14 A. It is correlative. Yes, sir.

15 EXAMINER McMILLAN: Okay.

16 EXAMINER BROOKS: Nothing.

17 MS. KESSLER: I'll call my next witness,
18 unless you would like to take a break.

19 EXAMINER McMILLAN: Yeah. Let's take about
20 a ten-minute break.

21 (Recess, 2:23 p.m. to 2:36 p.m.)

22 EXAMINER McMILLAN: At this time we'd like
23 to call back to order Cases 15758 and 15759.

24 Please proceed.

25 MS. KESSLER: Thank you.

1 DAVID RAMSDEN-WOOD,
2 after having been previously sworn under oath, was
3 questioned and testified as follows:

4 DIRECT EXAMINATION

5 BY MS. KESSLER:

6 **Q. Please state your name for the record and tell**
7 **the Examiners by whom you're employed and in what**
8 **capacity.**

9 A. David Ramsden-Wood. I'm the Chief Operating
10 Officer and President of OneEnergy Partners, as my role,
11 and I co-founded the company in March of 2016.

12 **Q. Have you previously testified before the**
13 **Division?**

14 A. I have not.

15 **Q. Please outline your educational background.**

16 A. Sure. I have a chemical engineering degree
17 from the University of Calgary, which I achieved in
18 1990- -- sorry -- 2000. It's been a long time. I'm
19 turning 40 in two weeks. But, anyway, a chemical
20 engineering degree from the University of Calgary, a
21 petroleum minor with internship. So I worked for a
22 predecessor to Burlington for 16 months during that work
23 term. I have an MBA from Cornell University and an MBA
24 from Queen's University in Canada, both of which I
25 achieved in 2007.

1 **Q. What is your work history?**

2 A. In 2000, I started with Anadarko Petroleum
3 Corporation in Canada. I was in the Calgary office in
4 various capacities from completion engineering,
5 production engineering, reservoir engineering, business
6 development, field operations.

7 In 2006, I was transferred to the Denver
8 office when Anadarko bought Kerr-McGee and Western Gas
9 and opened up a Denver office. I was part of the
10 Rockies Leadership Team from 2006 to 2009.

11 In 2009, I left Anadarko and went to a
12 company called Enerplus, which is a Canadian
13 immediate-size public company, that had assets in
14 Montana, and ultimately we acquired 75,000 acres in
15 North Dakota. And I ran the western U.S. operations and
16 all of the facilities except for land.

17 In 2012, I left Enerplus, and I've been
18 doing a number of consulting roles, start-up roles in
19 and across the Permian, the Eagle Ford, the Bakken, as
20 well as a number of other plays. I consulted with some
21 banks as well, and then in 2016, co-founded OneEnergy
22 Partners.

23 **Q. Okay. What has been your experience in the**
24 **Permian Basin?**

25 A. I had a consulting role with a company called

1 Reel Oil & Gas, which is a Quantum-backed company. They
2 were doing an acquisition in 2013 of some Bone Spring
3 acreage through one of Quantum's called Bluestem. I
4 helped them on that acquisition and the subsequent
5 integration. I've been following the Permian subsequent
6 to that with various acquisition opportunities.

7 And then in August of 2016, OneEnergy
8 Partners focused our entire efforts on the New Mexico
9 side of the Delaware Basin. We have subsequently put
10 together 10,130 acres as of right now. We've drilled
11 our first two operated wells. We farmed out two
12 locations, so we have a high working interest in two
13 others. So we have 2.7 net wells that are coming on in
14 the next 30 days.

15 **Q. Do you have any professional certifications?**

16 A. I'm a professional engineer in the province of
17 Alberta.

18 **Q. And have you previously testified before other**
19 **regulatory agencies?**

20 A. I have in North Dakota.

21 **Q. Are you familiar with the application filed in**
22 **these consolidated cases?**

23 A. I am.

24 **Q. And are you familiar with the reservoir in the**
25 **subject area?**

1 A. I am.

2 MS. KESSLER: Mr. Examiners, I would tender
3 Mr. Ramsden-Wood as an expert in reservoir engineering.

4 MR. BRUCE: No objection.

5 EXAMINER McMILLAN: So qualified.

6 **Q. (BY MS. KESSLER) Why does OneEnergy seek to**
7 **drill two two-mile wells?**

8 A. I would characterize it -- the primary reason
9 is the prevention of waste, and as we go through the
10 slides, we'll talk about why we believe that. The
11 prevention of waste, of course, then leads to better
12 economics, better recovery, better efficiencies, and
13 ultimately a higher EUR in the wells that ultimately get
14 drilled.

15 **Q. Can you summarize, in your opinion, how longer**
16 **laterals prevent waste?**

17 A. The primary -- there would be two elements that
18 we'll talk to in the exhibits. The primary reason is
19 the setback distance, the 660 feet, 330 from each of the
20 setback lines, not being able to be stimulated in the
21 one-mile wells. And so the access of that incremental
22 reservoir allows for incremental recovery that would not
23 otherwise be seen with one-mile wells.

24 I would make the broad statement that as
25 technology in the industry has moved ahead to allow us

1 to drill longer and longer wells, that moving longer and
2 longer to the technological limits make sense to limit
3 waste.

4 Secondarily to that, when you have two
5 wells -- and we'll talk about it on an operating-cost
6 basis. When you have two one-mile wells, they'll be
7 impacted negatively by economic limit earlier relatively
8 speaking than a two-mile lateral. And as a result,
9 there's waste from economic limit at the tail end of the
10 well, both of which is managed by long laterals.

11 **Q. What is Exhibit 18?**

12 A. So Exhibit 18 is a depiction of our Delaware
13 database. The way OneEnergy Partners works is in
14 every -- in every active oil basin in the country, we
15 have a database of every single horizontal well drilled
16 since 2013. Each of them has been analyzed, compared.
17 And using all of the publicly available data through
18 FracFocus and the state data, we're able to compile a
19 fully vetted, fully analyzed view of every basin. And
20 so when we talk about completion design and well
21 performance, that's the basis of the studies you'll see
22 today, is this database which includes roughly 6,000 --

23 **Q. So the purpose of Exhibit 18 is to show your**
24 **data points?**

25 A. Yeah.

1 **Q. What is Exhibit 19?**

2 A. Exhibit 19 is a theoretical depiction. And so
3 as we walk through the testimony, we'll show how theory
4 gives way to empirical evidence and then gives way to
5 how industry is actually proceeding developing these
6 reservoirs.

7 On the left, you see the depiction of a
8 one-mile lateral. In this case, our estimate for a
9 one-mile lateral is a \$7.3 million well. And while the
10 theoretical one-mile completed interval is 4,620 feet,
11 if you accommodate for the 330-foot setbacks to account
12 for not penetrating the setbacks and the 120 feet of
13 collars and flow collars and plugs at the end of the
14 well, we're using 4,500 feet for the basis of this
15 testimony as the completed lateral length of a one-mile
16 well.

17 When you take the completed lateral of
18 4,500 and you divide that into \$7.3 million, you see
19 that the completed lateral cost of a one-mile is \$1,622
20 per lateral foot for final cost and 81 per barrel of
21 oil.

22 The application on the right depicts a
23 two-mile lateral. And the two numbers that you see
24 there, the minus 440 and the minus 2 million,
25 approximately, that's the approximate \$2.5 million in

1 economic savings that you get by not having to replicate
2 the vertical wellbore down to the 3rd Bone Spring in
3 this particular case. And the 440,000 is the avoidance
4 of an additional surface facility that would be located
5 on the second pad in the instance of drilling two
6 one-mile laterals.

7 When you compare our estimate of this well
8 as a \$9.8 million well, that is \$1,014 for a completed
9 lateral foot or an EUR of \$6.76 per barrel.

10 And then the last depiction there is the
11 incremental 660 feet that is gained by not having to
12 honor the setbacks in the middle of the well.

13 Our type curve for the 3rd Bone Spring is
14 150 barrel-a-foot well, so every -- most of the analysis
15 you'll see today normalizes for lateral length and uses
16 that barrels of oil recovered per foot as the metric.
17 And so using 150 barrels a foot of recovery, that 660
18 feet would result in 99,000 barrels of oil and 198
19 million cubic feet of gas that would not otherwise be
20 recovered in a development program that includes two
21 one-mile laterals.

22 **Q. Now, we're talking about the economics here on**
23 **one two-mile well, but we're actually -- our development**
24 **plan today in front of the Examiners is for two two-mile**
25 **wells, so the recoveries are actually doubled; is that**

1 **correct?**

2 A. Correct. And the wasted length on setbacks
3 would, therefore, be 1,320 feet.

4 **Q. Does Exhibit 20 show various operating cost**
5 **savings for two-mile wells?**

6 A. It does.

7 And so, again, I preface this part of the
8 presentation as there is the theoretical observations of
9 what you would see. So if we start with the graph at
10 the bottom, you would see the depiction of a two-mile
11 lateral at the same stage of life as two one-mile
12 laterals. And the point here being that at roughly
13 \$50-barrel oil, the economic limit for commercial
14 productivity is approximately 5 barrels a day. And
15 we'll walk through that math.

16 But with that extra 5 barrels a day, using
17 the terminal limit that we use, which is 8 percent on
18 all our EURs, you see that the avoidance of having two
19 wells at the economic limit of 5 barrels a day each
20 rather than one well that continues to produce above the
21 economic limit, you see that the avoided waste due to
22 economic limit, in this example, is 22,500 barrels of
23 oil. And with a GOR of approximately 2,000, that's
24 about 45 million cubic feet of gas. Excluding any
25 royalties paid to this date, the severance tax for oil

1 and gas, that leads to about 1,830 barrels in avoided
2 economic loss of incremental oil that's sold by the
3 state for their severance tax and approximately 4
4 million cubic feet for gas.

5 **Q. You called out at the top of this exhibit**
6 **various costs per month; is that correct?**

7 A. That's correct.

8 And so this is -- in the example, these
9 wells would have the duplication of these costs in the
10 event of two wells versus one. Pump changes would have
11 to be done over two wells, miscellaneous road repairs,
12 electricity, pumpers, et cetera. And so the 6,500 a
13 month is what we would see as the fixed-dollar-per-well
14 month operating cost. Therefore, having one well rather
15 than two voids economic loss at the end the well's life.

16 **Q. For Exhibit 21, you've summarized various**
17 **recovery improvements --**

18 A. Correct.

19 **Q. Can you please walk us through this?**

20 A. Yes. So, again, speaking to the 660 feet in
21 theory, that is avoided. At 150 barrels per foot, the
22 incremental recovery is 99,000 barrels. At severance
23 tax, that's approximately 8,000 barrels incremental
24 recovery for the state. At 2,000-standard-feet-
25 per-barrel GOR, that's approximately 198 million cubic

1 feet. Add the severance tax, it would point to roughly
2 17 and 500,000 cubic feet.

3 And then overall, the EUR -- and, again,
4 going back to the theory, I've defined that a one-mile
5 lateral is approximately 4,500 feet, which is slightly
6 less but equivalent to the setback distances of 330 feet
7 on either side. And for an intellectually honest
8 comparison to a two-mile lateral, all we've done is
9 we've doubled the 4,500 feet and added 660.

10 Now, in actual fact, as I mentioned, at the
11 toe of your well, there is unusable lateral. And so in
12 a two-mile well, that extra 150 feet is also included.
13 And as you'll see in the demonstrative evidence of wells
14 less than 5,000 feet versus greater, in actual fact,
15 wells don't hit the point of penetration in the
16 reservoir at exactly the setback distance, and you don't
17 always get casing in the bottom or you don't get your
18 perforations to bottom. And so in actual fact, the
19 actual lateral length is less than the theoretical, but
20 at a comparison of 150 barrels a foot in both of the
21 scenarios, you see an EUR of 675,000 barrels for a
22 one-mile lateral versus 1.449 million barrels for a
23 two-mile lateral.

24 Finally, the surface disturbance. By
25 having only one pad and one location, rather than

1 drilling two wells of a mile each, you avoid
2 approximately four acres per pad, three acres per road
3 right-of-way, assuming the 5,000 feet between the pads,
4 1.5 acres for pipeline, and, overall, you've reduced the
5 infrastructure surface footprint that's required from
6 tanks, emissions, leaks, spills, road traffic.

7 **Q. You've also called out the specific savings and**
8 **benefits and recovery to the lessor, who is the State**
9 **Land Office, correct?**

10 A. Correct.

11 **Q. And that's assuming various severances?**

12 A. Correct.

13 And so this excludes the royalty that they
14 would garner, but if we add the avoidance of economic
15 loss at the economic limit, plus the incremental
16 recovery of the 660 feet of lateral length, you see
17 9,877 barrels of incremental oil that would not
18 otherwise be recovered in two one-mile development
19 scenarios, and approximately 21 million cubic feet of
20 gas.

21 **Q. All right. Now we're getting into specific**
22 **examples, correct?**

23 A. Yes.

24 **Q. Can you review Exhibit 22?**

25 A. Yes.

1 So I spoke to the first three exhibits here
2 for the theory of drilling longer laterals, why should
3 they work and why should they be less waste.

4 The next two examples are specific examples
5 that are in the proximal area. The reason that we've
6 chosen them is they depict with similar completion
7 designs and similar well spacing. You see the cores on
8 the State Unit 1, 2, 3 and 5, as well as the 6, 7, 8 and
9 9 wells. They are immediately adjacent geologically and
10 geographically. The proppant loading per foot of the
11 average short lateral is 994 pounds per foot. The
12 average proppant loading of the longer laterals is 995
13 pounds per lateral foot. So you can say that the
14 completion vintaging in the four wells is appropriately
15 similar. You can say, based on the four wells in each
16 of the spacing units in the 3rd Bone Spring, that any
17 degradation that would occur for drainage would be
18 equalized, and so what you're left with is the
19 difference in lateral length.

20 As I mentioned in my previous discussion,
21 the theoretical one-mile lateral is 4,500 feet. As you
22 can see, the actual one-mile lateral here is 4,258 feet,
23 which shows an additional loss in this particular case
24 above and beyond the one-mile.

25 The net result here is that the

1 mile-and-a-half laterals are 73-barrels-per-foot
2 recovery estimated at the end of the life, and the
3 one-mile laterals are 63 barrels per foot, again,
4 normalizing for all lengths, which in this particular
5 case shows a 16 percent EUR per foot practical increase
6 in EUR.

7 Now, we are not advocating that longer is
8 going to give you more. We're simply showing that
9 longer is not leading to less.

10 So in combination of 61 percent more
11 lateral length and 16 percent more EUR per foot, you
12 ultimately recover 90 percent more EUR in the longer
13 laterals, in this example, than in the shorter.

14 **Q. And 23 shows two-mile wells versus one-mile**
15 **wells; is that correct?**

16 A. That is correct.

17 **Q. Let me take a step back. Exhibit 22 shows the**
18 **3rd Bone Spring; is that correct?**

19 A. That is correct. Yes.

20 **Q. And then the 2nd Bone Spring wells are included**
21 **in Exhibit 23?**

22 A. Correct.

23 **Q. Could you please review this exhibit?**

24 A. Yes.

25 So in bottom, right-hand corner, you see

1 the depiction of two cumulative produced oil curves
2 since the beginning of life for the Pygmy 27 well and
3 the Raspberry well, which is a recent production well
4 that's now on for nine months. Cumulative over the
5 first nine months, you can see that the Raspberry well,
6 which is a two-mile lateral, and in actual fact is 9,739
7 feet, has recovered 91,000 barrels more than the Pygmy,
8 which is a 4,067-foot lateral.

9 Now, transmitting that to an EUR, so
10 forecasting for the rest of the well life, the Pygmy and
11 the Raspberry, the Raspberry has a long lateral with
12 1,955 pounds per lateral foot of proppant, is similarly
13 completed to the Pygmy 27, which is 1,922 pounds per
14 lateral foot. So on a completion basis, they're
15 stimulated very similarly. The Raspberry is about a 205
16 barrel-per-foot recovery well, and the Pygmy is about
17 140 barrels per foot.

18 Again, the intent is not to show that
19 longer is leading to higher EUR per foot. It's simply
20 to show that it is not producing lower EUR per foot and
21 that there is no degradation by lengthening laterals.

22 **Q. Exhibit 24 shows a larger study area; is that**
23 **correct?**

24 **A.** That is correct.

25 **Q. Can you walk us first through the map and**

1 **explain what the purpose of this exhibit is?**

2 A. Absolutely.

3 So as I mentioned in the preamble, every
4 horizontal well drilled in the Delaware Basin has been
5 analyzed horizontally since 2013. To come up with a
6 like criteria that would be statistically valid -- and
7 while statisticians would say that a sample size of more
8 than 30 is required, we would say, The more, the better.

9 This particular example is 208 wells only
10 in Lea County, New Mexico, screened by 1,200 pounds per
11 lateral foot or more completion so that the completion
12 design is similar, and that all of these wells have come
13 on since 2013. We have normalized for the performance
14 of the wells by screening only wells that are producing
15 more than 80-barrels-a-foot EUR.

16 The color scheme you see on the depiction
17 of where these wells are: Blue wells are between 80 and
18 100 barrels a foot; black wells are between 100 and 200
19 barrels a foot; and pink wells are between 200-plus
20 barrels a foot. The intent of this depiction is to show
21 is that you have a distribution of colors that is not
22 leaning to any geologic bias in the data set. So you
23 don't see a whole bunch of pinks clustered in one area,
24 a whole bunch of blacks in another and a whole bunch of
25 blues in another that would lead to three different type

1 covariance [sic; phonetic]. You see a distribution of
2 this 200-plus data set over a large scale.

3 And, finally, by using only Lea County and
4 only Bone Spring and Wolfcamp wells, you see an average
5 GOR of 1,700. So in terms of the quality of gas
6 production, these wells are similar, and, therefore, we
7 can start drawing conclusions in terms of how longer
8 laterals actually prepare over a larger data set than
9 just the individual examples.

10 **Q. So this is to set up the following exhibits?**
11 **And just again to emphasize, you used three criteria for**
12 **the following exhibits?**

13 **A.** That is correct.

14 And so if we look at Exhibit 25, I'll start
15 at the bottom. And what you see here is the well data
16 set that I just described, more than 1,200 pounds per
17 foot, more than 80 barrels a foot, only Lea, Bone Spring
18 and Wolfcamp wells.

19 The bottom shows that the lateral length of
20 these wells is plotted against the ultimate estimated
21 recovery of each of these wells, and they show that the
22 EUR continues to increase over the lateral on a gross
23 EUR basis. So not normalizing for footage, just longer,
24 leading to higher EURs. The trend line there is the
25 regression arithmetic average of that life. So the

1 depiction of the dashed line represents the average well
2 at each of those lengths along that trend.

3 The graph to the north or to the upper part
4 of the page depicts, on the x-axis, the pounds per
5 lateral foot pumped in the frac design. And normalizing
6 the well performance, you have the EUR per foot in
7 barrels on the y-axis. And what this shows is the range
8 of outcomes from the low end to the high end is
9 approximately equivalent across the range of 1,200
10 pounds per foot up to -- as of now in this data set, the
11 highest lateral proppant loading that's been tested is
12 approximately 3,200 pounds per foot.

13 But the importance of this graph is to show
14 that, generally speaking, while there is a slight
15 correlation of improvement in the EUR per foot as
16 proppant loading gets bigger, you see that the
17 1,200-plus proppant loading is an appropriate comparison
18 deck as you look at completion vintage in your data
19 set.

20 **Q. And this is showing that there is not a very**
21 **strong correlation between proppant versus length of**
22 **lateral, but that there is -- I'm sorry -- proppant**
23 **versus EUR per foot, but there is strong correlation**
24 **between lateral length and over EUR?**

25 **A. That is correct.**

1 **Q. What is Exhibit 26?**

2 A. So Exhibit 26 is the summary of the testimony
3 that you've heard to date. What it depicts on the
4 x-axis is the actual lateral length of the wells that
5 were drilled. And what it depicts on the y-axis is the
6 EUR per foot that is recovered in each of those wells.

7 Again, the overarching point of degradation
8 is that if one were to believe that you are not seeing
9 demonstrably worse performance with length, the shorter
10 the lateral, the better the EUR per foot. The longer
11 the lateral, the worse the EUR per foot.

12 Conversely, if you were seeing no
13 degradation, you would see very similar EURs per foot
14 across all range of the lengths.

15 And so what this plot shows is that for
16 under 5,000 foot laterals, i.e., one-mile laterals, the
17 average is actually 4,329 feet, so slightly less than
18 the 4,500, and that the EUR per foot of these wells is
19 145 barrels per foot on average.

20 For the wells that are over 5,000 feet, you
21 see, again, the same range of relative outliers, and the
22 average of that performance is 156 barrels a foot. So,
23 again, seeing no degradation in EUR per foot as you
24 lengthen the laterals.

25 **Q. And this shows that no degradation with longer**

1 laterals establishes that for the extra acreage that
2 you're developing with the leaseline -- more recovery
3 for longer laterals?

4 A. Correct.

5 By making the case that the EURs per foot
6 are going to be the same in the short and long laterals
7 in the data set that is Lea County, New Mexico, you can
8 draw the extension that that 660 feet of waste and the
9 length -- the lengthening of the lateral leads to
10 demonstrably higher recovery with less economic end
11 waste.

12 Q. In your opinion, will reserves be left in the
13 ground if OneEnergy Partners does not drill two two-mile
14 laterals?

15 A. Yes.

16 Q. In your opinion, does development with two-mile
17 laterals allow and enable OneEnergy Partners to
18 efficiently and economically recover additional
19 incremental revenues?

20 A. Yes.

21 Q. Are you familiar with the definition of
22 correlative rights?

23 A. I am.

24 MS. KESSLER: If I may read that into the
25 record, Mr. Examiner? Correlative rights means the

1 opportunity afforded, so far as is practical to do so,
2 the owner of each property in a pool to produce without
3 waste his just and equitable share of oil and gas or
4 both in the pool.

5 **Q. (BY MS. KESSLER) Do the proposed two-mile wells**
6 **negatively impact V-F's correlative rights?**

7 A. They do not, as they would have approximately
8 50 percent working interest in both of the wells,
9 therefore, recovering the EUR that's available to be
10 recovered.

11 **Q. And recovering their just and fair shares of**
12 **the underlying reserves, correct?**

13 A. That is correct, and doing so at significantly
14 less capital investment.

15 **Q. In your expert opinion, looking at the geology**
16 **in the formation at issue, what development plan best**
17 **accomplishes the Division's statutory duty to prevent**
18 **waste?**

19 A. Two-mile laterals accomplish that objective.

20 **Q. And were Exhibits 18 -- I'm sorry. I missed**
21 **one exhibit. Could you please review Exhibit 27?**

22 A. Yeah. So, finally, in terms of -- we've now
23 talked about the theory of the EUR per foot and how it
24 should be preventing waste. I think we've seen that.

25 We've talked about, empirically, is the

1 data demonstrating that you are not seeing degradation
2 by going longer. I believe that the data shows that
3 strongly.

4 So, finally, the proof is in the pudding.
5 What is industry actually doing? And so what this table
6 shows on the -- in the rows is the state of New Mexico
7 in the Delaware Basin and the state of Texas in the
8 Delaware Basin for the years 2014, 2015, 2016 and 2017,
9 and you can see that the average lateral -- lateral
10 length of wells in 2014 in New Mexico was 4,693 feet as
11 compared to Texas, which was 4,671, so very similar
12 starting points for both the states.

13 By 2017, Texas is drilling 6,619-foot
14 average for the wells so far this year, and in
15 New Mexico, that average is 5,623, but you are seeing
16 demonstrably that industry is going longer. And for
17 wells over 9,000 feet, you see that New Mexico, in 2014,
18 3 percent of the wells were drilled over 9,000 feet. By
19 2017, 8 percent of the wells are drilled over 9,000
20 feet. That's compared to Texas where lease
21 configurations can allow operators to go longer with
22 less burden. And from 2014, they increased 1 percent of
23 the total wells over 9,000 feet to 23 percent of the
24 wells drilled so far this year over 9,000 feet.

25 So the proof is in the pudding. Industry

1 is drilling longer laterals because they see the
2 economics of those laterals and the lack of waste as
3 being beneficial in the development of the resource and
4 ultimately maximize the resource recovery for the state.

5 **Q. Were Exhibits 18 through 27 prepared by you or**
6 **compiled under your direction or from company business**
7 **records?**

8 A. They were, yes.

9 MS. KESSLER: Mr. Examiner, I move
10 admission of Exhibits 18 through 27.

11 MR. BRUCE: No objection.

12 EXAMINER McMILLAN: Exhibits 18 through 27
13 may now be accepted as part of the record.

14 (Applicant's Exhibit Numbers 18 through 27
15 are offered and admitted into evidence.)

16 MS. KESSLER: Pass the witness.

17 CROSS-EXAMINATION

18 BY MR. BRUCE:

19 **Q. Mr. Ramsden-Wood, going back to the AFE, what**
20 **is the pipe design for this one?**

21 A. In April, this pipe design was a three-string
22 design. So three-string design would be a 4-1/2-inch
23 pipe to surface. It would be drilled with a 16/8 bit,
24 which is very similar to the well design we just drilled
25 with our County Fair well. It would have a, I believe,

1 7-5/8 casing to the intermediate casing point, which is
2 approximately 5,000 feet, and then surface casing to
3 approximately 1,000 feet.

4 Subsequent to the preparation of that AFE,
5 we continue to see industry evolve in their well
6 designs. And there is an offset well, the Grama 8 --
7 8817, that was drilled about two miles to the west of
8 here, and it's a two-mile lateral. And EOG just drilled
9 a two-mile 3rd Bone Spring well about three miles to the
10 east of here called the Bridge State well. And so those
11 wells have been drilled subsequent to the preparation of
12 this AFE in April. And so as we get closer to drilling
13 the well, we'll finalize this estimate with the final
14 casing design, and then that would be sent to partners
15 for their election.

16 **Q. You're going to have a 4-1/2 or 5-inch, did you**
17 **say?**

18 A. 4-1/2-inch to surface, correct.

19 **Q. What about the drill pipe?**

20 A. Specifically what kind of drill pipe you would
21 use?

22 **Q. In the inches -- in inches and size.**

23 A. I would have to defer to my drilling
24 engineering on the specific design of that. But it
25 would be a 5-1/2-inch drill pipe and then, obviously, a

1 4-1/2-inch drill pipe in a lateral section, again very
2 similar building on the design we have in the County
3 Fair and the Parade wells.

4 Q. You mentioned the two wells that OneEnergy --
5 Wolfcamp wells that OneEnergy has drilled or is
6 drilling.

7 A. Has completed drilling, yes, sir.

8 Q. But they haven't been completed? The
9 completion hasn't been --

10 A. The completion -- the first of the wells, the
11 mile lateral is being completed August 23rd. The frac
12 would move from August 14th, so shift to seven days, and
13 we'll follow up with the Parade well approximately
14 September 15.

15 Q. Is it your assumption that those wells will be
16 economic?

17 A. Yes, it is.

18 Q. So one-mile laterals can be drilled
19 economically?

20 A. Yes, sir, they can.

21 Q. Briefly, on your Exhibit 22 --

22 A. Yes, sir.

23 Q. -- this is a study of eight wells. When were
24 they drilled?

25 A. Between 2013 and 2015, is my recollection.

1 Q. You don't know which ones were drilled first
2 and which ones were drilled later?

3 A. I do. As I mentioned, our database has all of
4 the data for there, and if required, I would be happy to
5 open the database and give you all of those answers
6 specifically. I don't have that on my rein at this
7 moment.

8 Q. How many Bone Spring wells have been drilled --
9 horizontal wells possibly drilled in Lea County?

10 A. Again, I'd have to go to the database, but I
11 can tell you if you gave me approximately three minutes.

12 Q. Approximately what?

13 A. Three minutes.

14 Q. Sure. Let me finish and -- finish my
15 questioning.

16 Go to your Exhibit 3, please. First of
17 all, when you're looking at one-mile lateral, that's a
18 fairly shortly lateral, isn't it? I mean, you could
19 have about 600 -- almost 550, 600 more feet under the
20 OCD setback?

21 A. In theory, you could, yes.

22 Q. And so the one-mile lateral there, it's over
23 two years old?

24 A. That's correct. It's been on production for 26
25 publicly available months, about two years, two months.

1 Q. Have frac methods differ- -- changed from 2015
2 to 2017?

3 A. They have.

4 And in this case, the reason that the
5 example was chosen was because the pounds per lateral
6 foot, which is one of but certainly not the only factor
7 that impacts frac design was approximately equivalent.

8 Q. And your final exhibit, 27, that would include
9 everything in Eddy and Lea Counties, everything in the
10 Delaware Basin --

11 A. Correct.

12 Q. Now, you discussed correlative rights at
13 length. You understand the well-spacing scheme out
14 here; you're tacking together 40-acre tracts to make a
15 well?

16 A. Yes, sir.

17 Q. And the setback is 330 feet well-unit boundary?

18 A. Yes, sir.

19 Q. And isn't the OCD in charge of protecting
20 operators' correlative rights in hearings like this?

21 A. As I understand it, yes, sir.

22 Q. And OneEnergy doesn't have any correlative
23 rights in Section 1, does it?

24 A. We do not have a working interest in Section 1.
25 No, sir.

1 Q. So it's up to my clients to look after their
2 own correlative rights in Section 1?

3 A. I believe you could say that. Yes, sir.

4 Q. And, finally, check whatever you need to. I'd
5 just like to know the number of wells -- Bone Spring
6 wells in Lea County.

7 A. Would you permit me to grab my computer?

8 Q. We can pull it up later.

9 MR. BRUCE: Pass the witness, Mr. Examiner.

10 CROSS-EXAMINATION

11 BY EXAMINER BROOKS:

12 Q. Well, this is just something I'm curious about.
13 On the economics, it probably doesn't affect the EUR.
14 Wouldn't affect the EUR that much, maybe even at all,
15 but how is the economics -- how is the economics of
16 longer wells impacted if you figure in operating costs?

17 A. So I'll take that in two parts.

18 Q. Yeah. It's -- it's a multipart question.

19 A. With respect to how longer -- longer laterals
20 are impacted on the economics --

21 Q. Yeah.

22 A. -- between the fixed cost and the variable
23 cost, the fixed cost would be approximately similar, and
24 the variable cost would be approximately similar. But
25 in the instance of two two-mile laterals, there are more

1 fixed costs associated with a second well than there are
2 in the first, and so the variable costs should be
3 similar, i.e., water trucking or disposal, chemical use
4 per barrel to prevent scale or --

5 Q. When you say similar, do you mean similar per
6 well or similar per foot?

7 A. Similar per barrel of oil produced.

8 Q. Oh, okay.

9 A. So on a purely variable basis, the difference
10 between the different lateral lengths, they should be
11 very similar. It's the fixed costs that are different
12 because the longer lateral, obviously, spreads more
13 production cumulatively over a smaller fixed basis for
14 that well.

15 Q. Okay. Thank you.

16 Well, one other thing. If I understand the
17 impact of your figures, if your assumptions are -- if
18 your conclusions are correct, because all conclusions
19 are based on assumptions. But I'm thinking if your
20 conclusions are correct, would it not be true that if
21 the wells -- unless the well is more -- longer footage
22 on one tract of the land than another -- say you had the
23 same length of footage of well on one section than
24 another, then the -- except for the overhead charge, the
25 two sections would come out equally in the longer?

1 A. If I understand the question correctly, sir --
2 so I'll paraphrase. If you compare two one-mile
3 laterals adjacent similar to the Raspberry, if we're
4 talking specifically the Pygmy and the Raspberry well
5 example --

6 **Q. Yeah.**

7 A. -- the primary difference there would be the
8 fixed cost.

9 **Q. Yup.**

10 A. And so over the life of the well, there would
11 be less operating cost for the longer lateral --

12 **Q. Right.**

13 A. -- than for the shorter.

14 **Q. So each owner should come out basically the**
15 **same if the -- if the productive properties of the**
16 **formation were uniform throughout?**

17 A. That is correct.

18 **Q. But, of course, they would lose on correlative**
19 **rights if they owned the sweet spot?**

20 A. That is correct.

21 In that particular case -- and I would
22 liken it, sir, to the extension of laterals from 40
23 acres to 80 acres to 120 acres, that as technology has
24 allowed us to go longer and string together units, that
25 ultimately the recovery is being shown to be double.

1 And so from a correlative rights standpoint, the
2 addition of those extra footages that would not
3 otherwise be recovered, plus the economics yield to
4 better recovery. And from a capital standpoint, you
5 invest significantly less and you accelerate the
6 production of that because you drill with less days.

7 Q. And that's the reason why we, in these
8 horizontal well pool cases, ask you to bring in a
9 geologist to say that the well will produce even
10 throughout its length --

11 MS. KESSLER: On average.

12 EXAMINER BROOKS: Okay. Thank you. That's
13 all I have.

14 EXAMINER McMILLAN: Go ahead.

15 CROSS-EXAMINATION

16 BY EXAMINER DAWSON:

17 Q. Well, that leads me to ask a question: Do you
18 think that the well would be -- produce evenly
19 throughout its length inception --

20 A. Based on -- based the geology and over -- over
21 the course of the time as the reservoir pressure is
22 draining, with your -- with your draw point, using
23 artificial lift in the heel and the relatively low
24 barrels per foot produced in terms of friction, you
25 should generally be producing similarly over the course

1 of the life of the well, and the data to date depicts
2 that.

3 Q. And in your proposed well, would you -- did you
4 propose this well to be drilled with the toe up or level
5 within the form- -- I guess it just depends on the dip
6 in the formation.

7 A. It just depends on the dip. I'd have to -- I'd
8 have to check with Greg as to whether we're drilling
9 from south to north. The reason we chose that
10 orientation is Mewbourne has a well in the east
11 half-east half of Section 13, which precluded us from
12 drilling south. As I've testified today, we believe
13 that the economics and the prevention of waste is -- is
14 better for longer laterals. Therefore, we drilled from
15 south to north starting from our ownership and pooling
16 in the V-F entity interests. And so I would just have
17 to check with Greg as to what the dip is, if that's toe
18 up or toe down.

19 Q. Okay. So you did a pretty fair assessment as
20 to the two-mile laterals in the immediate area --

21 A. Yes, sir.

22 Q. -- just looking at your presentation?

23 A. Yes, sir.

24 Q. Do you -- do you have an estimate as to -- in
25 looking at your Exhibit Number 27, with the horizontal

1 wells within the Delaware Basin in New Mexico and Texas,
2 do you -- it looks like the operators are preferring the
3 longer laterals, two-mile laterals, down in Texas, and
4 they've really been going with that for a lot longer
5 period?

6 A. That is correct. And we could supplement that.
7 The three -- I would describe them as the three biggest
8 operators in New Mexico in the Delaware Basin, EOG,
9 Cimarex and Concho, and both of them operate on both
10 sides of the border. And demonstratively all three of
11 those operators drill substantially longer wells in
12 Texas than they do in New Mexico.

13 Q. And they are starting to pursue three miles,
14 correct?

15 A. There are some three-mile laterals that are
16 being proposed and specifically in the potash area,
17 where surface restrictions are even more restrictive.
18 So to be able to drill longer laterals will continue to
19 push the prevention of waste.

20 Q. And you think that those three miles -- in your
21 estimate, you think a three-mile lateral would perform
22 and have a better EUR than a two-mile lateral?

23 A. The best analogy that we have in the industry
24 for longer horizontal wells is the Bakken. As I
25 mentioned, my experience from 2009 to 2012 and then

1 subsequently starting up a private equity-backed company
2 in the Bakken in 2013, we've seen substantial data that
3 shows that longer laterals are producing effectively
4 over the course, and that on an EUR-per-foot basis, you
5 don't see waste as a result of incomplete drainage for
6 the basin that has been producing the longest
7 horizontally.

8 And as you know, the Bakken is almost
9 exclusively 1,280-acre units with 9,500-foot laterals.
10 The primary reason being the average EUR per foot of a
11 Bakken well is approximately 44 barrels a foot, so you
12 need 10,000 feet to get to the 440,000 barrels.
13 Whereas, the Delaware Basin, as you saw from our
14 examples, has substantially higher EURs per foot. But
15 by extension, operators have been able to get away with
16 drilling shorter wells because they have been economic,
17 but they have been more wasteful, and they can be made
18 even less so by going longer over the course of time.

19 **Q. So you're also saying there will less surface**
20 **disturbance for the pads?**

21 A. Yes, sir.

22 **Q. And what about the production facilities**
23 **associated with the --**

24 A. Production -- production facilities -- quite
25 simply, if you have a pad here and a pad here

1 (indicating), you need to double the facilities. By
2 having a two-mile lateral, you don't. So you save
3 approximately eight acres per well, would be our
4 estimate. And with higher rates, it's more cost
5 effective to put in units such as vapor recovery units
6 where you have higher emissions, but you can then
7 capture that extra gas sales and sell it. Whereas, with
8 two shorter laterals, the cumulative rate may not allow
9 tank venting to be captured appropriately.

10 So when you layer in all of those, plus
11 less truck traffic in terms of mileage driven, plus less
12 spill potential, with just less equipment and less
13 casing failures, et cetera, all of that leads to less
14 waste. Yes, sir.

15 **Q. And on the wells that you were talking about,**
16 **the two-mile laterals, you said there was one -- I**
17 **believe you said it was the Grama that's like two miles**
18 **west?**

19 **A.** The Grama -- the Grama Ridge 8817 is my
20 recollection. I believe it's actually 5 to 8, and it's
21 a two-mile lateral, drilled in the west half-west half,
22 and it came on in 2017.

23 **Q. So the initial production on that one, is it --**

24 **A.** It looked strong. I'd have to pull it up to
25 talk specifically around it.

1 And the Bridge State, the EOG well that
2 they drilled two miles -- three miles east but is a
3 two-mile lateral, is not yet completed that we've seen
4 publicly.

5 **Q. So do you feel like drilling -- I think I**
6 **already asked you this -- north-south versus**
7 **east-west -- you think south to north is the best?**

8 A. So south to north versus north to south, I
9 think there is a lot of debate in the industry whether
10 toe up, toe down, separators, et cetera. What we would
11 say from the studies that we've done in the area, there
12 is not a lot of east-west wells that have data on stress
13 anisotropy.

14 The closest area we have is offsetting our
15 County Fair location where Concho drilled a one-mile
16 east-west Avalon well called the Feds Fee [phonetic] to
17 hold the lease, and that well is demonstrably worse than
18 other Avalon wells in the area. And our alliance with
19 Halliburton gets us that completion data. And it was a
20 very, very difficult well to frac, and it was
21 interpreted because the fracture planes were actually
22 going down the wellbore as opposed to perpendicular.

23 So we would say that north-south is -- is
24 advantageous, and in other areas where they used to go
25 east-west, we're seeing evidence that north-south is

1 better. Yes, sir.

2 Q. And you said -- on the proppant, you said some
3 of the operators were using like 1,200 to 3,200 pounds
4 per foot?

5 A. Yes.

6 Q. Do you have an estimate about how many pounds
7 per foot proppant you would use?

8 A. We would use 18- -- we would use 1,850 pounds
9 per foot. And it's based on, as you saw, from that
10 scatter plot and some other basin studies that we've
11 done, again, a little bit beyond the scope of here
12 today.

13 But we see too much beyond 2,000 pounds per
14 foot in the Bone Spring as being -- as not being
15 incrementally positive, but frac design in and of itself
16 is the biggest single driver. So 1,850 is what we see.

17 We also believe in using high-end
18 surfactants. And so as we talk about well costs and
19 well design, we have seen demonstrable evidence that
20 high-end surfactants, nano surfactants that are provided
21 increase flowback and increase EUR. That, again, is not
22 shown in this study, but that plus the fluid type,
23 slickwater, the barrels per foot, chemical loading,
24 rate, clusters, staging, et cetera.

25 So you can't really normalize for all those

1 factors, but in our wells we're using 1,850, 35 barrels
2 of water per foot, high-end surfactants, a product
3 called Sand Wedge, which is a conductivity enhancer in
4 your 100 mesh, and we've used cemented sliding sleeves
5 that are surface actuated, so we're able to pump stages
6 every 85 feet without having to run wireline, without
7 having to run guns. And we believe that the combination
8 of all those factors leads to lower well costs, better
9 well performance and longer ultimate EURs.

10 Q. So would you -- in your proposed wells, would
11 you do same [sic] ops on these simultaneous operations?

12 A. If -- if we drilled them -- I think Mr. Lierly
13 commented on our rate schedule. When we were continued
14 in this, originally our plan had been to pick up the rig
15 September 15th, drill an obligation well and then move
16 to this location. We've now pushed the planned rig to
17 come in on October 15th. We would drill at least one of
18 these, and we have approximately 3,000 acres in this
19 relative area. So whether we drill adjacent or in the
20 general area is yet to be determined.

21 (Mr. Feldewert exits the room.)

22 Q. That's all the questions I have. Thank you.

23 CROSS-EXAMINATION

24 BY EXAMINER McMILLAN:

25 Q. The first question I've got, essentially, is on

1 **Exhibit 23. Are the number of stages per mile similar**
2 **on these two wells?**

3 A. I can't comment on that right now. I don't
4 have that offhand. I can get that for you.

5 Q. Okay. And let's go back --

6 And you'll get that.

7 Looking at Exhibit 19 --

8 A. Yes, sir.

9 Q. -- so if you look at -- we're looking at the
10 two-mile. Are you saying by not stranding the 660,
11 you're going to get 99,000 barrels of oil?

12 A. Yes, at 150 barrels a foot of recovery, which
13 would be the same over a one-mile or a two-mile lateral.
14 The 150 barrels a foot is our -- for this area.

15 Q. How much additional reserves would V-F
16 Petroleum be gaining from that 660 feet?

17 A. In this particular example, although we would
18 argue in actual fact the lateral for a two-mile lateral
19 would be longer than a 660 because of the loss of the
20 waste at the toe, but for this specific example, 50
21 percent of that 9,660, plus 50 percent of the avoided
22 loss by economics, so that would be roughly be 120 gross
23 barrels or 60 -- net barrels, with a 35 net back,
24 roughly, estimate, approximately a million dollars
25 incremental, while at the same time saving the two

1 companies in excess of \$4-and-a-half million by not
2 drilling a second well, allowing us to accelerate
3 development.

4 Q. I guess the question I'm also getting to is
5 that 9,660, why can't you just drill off lease and hit
6 the 330s, and then drill 100 foot from the line to
7 occupy the 330?

8 A. You can. And we would use backfills. I was,
9 simply for the purposes of this argument, from an
10 intellectual honesty standpoint, we would see one-miles
11 as being deficient because you have the 330 loss at the
12 heel, the 330 loss at the toe. Theoretically, you can
13 do 4,620 lateral feet with -- spacing. And actual fact,
14 you have about 100 feet at the toe you can't -- or don't
15 usually complete. And then incremental to that, as you
16 saw from the averages of all wells less than 5,000 feet
17 in the data set, the actual is more like 4,360. So
18 there is an incremental 250 barrels of loss that I would
19 project that V-F would incrementally lose that we're not
20 even discussing by drilling one-mile laterals. If you
21 included that, you could make the case that they would
22 be recovering 100,000 barrels of incremental.

23 Q. So you're saying, in essence, by not drilling
24 the two miles, you're almost losing 120,000 barrels of
25 oil?

1 A. Right. Technology should be the limiter of
2 length, not ownership. And correlative rights are
3 protected in all cases because you'll get your share,
4 and it will be done cheaper, more economically and
5 faster.

6 Q. So the one-mile loses 120,000 because the
7 setbacks and the real and -- the realistic -- to hit the
8 330-foot setbacks?

9 A. Correct, plus -- plus economic loss from
10 operating cost.

11 Q. Okay. I have no further questions.

12 EXAMINER McMILLAN: Okay. Let's take a
13 ten-minute break.

14 (Recess, 3:31 p.m. to 3:44 p.m.)

15 EXAMINER McMILLAN: I'd like to call the
16 hearing back to order. I call Case Numbers 15758 and
17 15759.

18 Please proceed.

19 MR. BRUCE: Call Mr. Gahr to the stand.

20 JERRY M. GAHR,
21 after having been previously sworn under oath, was
22 questioned and testified as follows:

23 DIRECT EXAMINATION

24 BY MR. BRUCE:

25 Q. Would you please state your name and city of

1 **residence for the record?**

2 A. Jerry Gahr, Midland, Texas.

3 **Q. And what is your relationship to V-F Petroleum?**

4 A. I am part owner and president.

5 **Q. By trade, are you a petroleum landman?**

6 A. Correct.

7 **Q. Could you briefly summarize your experience in**
8 **the oil and gas business?**

9 A. V-F is an old line company. It was founded in
10 1963, and we've drilled a lot of wells for many, many,
11 many years in southeast New Mexico. I became involved
12 in 1981, and we've been drilling and producing wells
13 ever since. And our focus is principally in the Permian
14 Basin, although we have had international experience in
15 Russia for a number of years. And we are not only an
16 operator, but we participate in many nonoperated
17 horizontal wells. We participate with EOG. We
18 participate with Mewbourne. We participate with Concho.
19 So we've had a lot of experience in horizontal wells.

20 **Q. Have you previously testified before the Oil**
21 **Conservation Division as a petroleum landman?**

22 A. Yes.

23 **Q. And are your credentials as an expert accepted**
24 **as a matter of record?**

25 A. Yes, sir.

1 **Q. And are you familiar with V-F's ownership**
2 **interest in this area?**

3 A. Yes, sir.

4 MR. BRUCE: Mr. Examiner, I tender Mr. Gahr
5 as an expert petroleum landman.

6 MS. KESSLER: No objection.

7 EXAMINER McMILLAN: So qualified.

8 **Q. (BY MR. BRUCE) Mr. Gahr, I've handed you what's**
9 **been marked as V-F Exhibit F. This references a lease**
10 **number. Is V-F the record title owner in this lease?**

11 A. V-F is the record title owner, and V-F and its
12 partners -- the partners being owners, consultants,
13 employees -- are owners of the operating rights.

14 **Q. 100 percent?**

15 A. 100 percent. We have no outside interests
16 other than employees, officers and consultants.

17 **Q. And is this exhibit simply taken from the State**
18 **Land Office Web site on their leaseholds in the state?**

19 A. Yes, sir, from the portal.

20 **Q. I notice the lease covers -- it covers**
21 **three-quarters of the section; is that correct?**

22 A. That is correct.

23 **Q. The west half and the southeast quarter?**

24 A. That is correct.

25 **Q. Who owns the northeast quarter?**

1 A. Apache or an affiliate of Apache.

2 **Q. And on your acreage, is there a joint operating**
3 **agreement in place?**

4 A. Yes. There is an operating agreement on the
5 AAPL, in model form, and all the owners of operating
6 rights have executed that as of years ago.

7 **Q. And, in essence, is it V-F's position that they**
8 **just want to be left alone to carry out their own**
9 **operations on a 100 percent basis?**

10 A. That is correct. That is correct. We
11 purchased this lease from the State Land Office back in
12 2008, and we re-entered a well in 2009 and have been
13 producing ever since. This area's a multiformation
14 area, and we believe there are prospective zones in
15 several formations.

16 **Q. In that regard, if you have a vertical wellbore**
17 **on your acreage, does that enable you to potentially**
18 **access those zones if you complete uphole from the Bone**
19 **Spring?**

20 A. Very much so, yes.

21 **Q. And that's a benefit to V-F?**

22 A. That is. That's evidenced by some wells that
23 we have in southeast New Mexico, Lea County, where there
24 was an argument whether you could capture more reserves
25 by vertical wells out of the Delaware or by drilling

1 horizontal wells, and major companies were on both sides
2 of that argument.

3 Q. Now, we mentioned Apache or one of its -- one
4 of its sister corporations. Has V-F had contacts with
5 Apache regarding development of Section 1?

6 A. That is correct. Our landman -- one of our
7 landmen has had discussions with them ongoing for
8 several months.

9 Q. No agreement has been reached at this time?

10 A. That is correct. That is correct.

11 Q. But is it V-F's desire to drill all of Section
12 1 on a 640-acre basis?

13 A. That is correct.

14 Q. The APDs that V-F filed -- has V-F been in
15 touch with the surface owner regarding those --

16 A. We have. V-F has.

17 Q. Is V-F going to take care of his concerns?

18 A. That is correct. The surface owner is a
19 rancher or ranching entity that we've had a number of
20 wells drilled on specifically in that area, in that
21 Grama Ridge area.

22 Q. But there is no activity on-site at this time?

23 A. That is correct.

24 Q. Do you have any other thing to state about
25 these applications, Mr. Gahr?

1 A. Other than they are -- the applications for the
2 permits to drill the APDs, you're asking?

3 **Q. Yeah.**

4 A. They are proposed to develop the section -- or
5 the half section in a manner that further testimony will
6 describe, and we think it's a very practical and
7 efficient way of developing the reserves.

8 **Q. And is Exhibit F compiled from company records?**

9 A. Exhibit F?

10 **Q. Yes.**

11 A. Yes. Well, this is a page out of the portal,
12 but it reflects the company records.

13 **Q. It's a public record?**

14 A. A public record, yes.

15 **Q. In your opinion, is the denial of OneEnergy's**
16 **two applications in the interest of conservation and the**
17 **prevention of waste?**

18 A. Oh, definitely not.

19 **Q. No. Is the denial?**

20 A. Oh, the denial. Yes. Excuse me.

21 MR. BRUCE: Mr. Examiner, I move the
22 admission of Exhibit F.

23 MS. KESSLER: No objection.

24 EXAMINER McMILLAN: V-F Exhibit F may now
25 be accepted as part of the record.

1 (Respondents' Exhibit Letter F is offered
2 and admitted into evidence.)

3 MR. BRUCE: I have no further questions of
4 the witness.

5 MS. KESSLER: Just a couple.

6 CROSS-EXAMINATION

7 BY MS. KESSLER:

8 Q. Good afternoon, Mr. Gahr.

9 You discussed some of your plans to develop
10 this acreage, and you filed the APDs. I'm going to
11 refer to them in our exhibit book. Is that in front of
12 you?

13 A. It is not.

14 MS. KESSLER: If I may approach?

15 EXAMINER McMILLAN: Please do.

16 Q. (BY MS. KESSLER) Exhibits 12 and 13.

17 A. Okay.

18 Q. Would these be the two APDs that were filed for
19 Section 1 by V-F?

20 A. That is correct.

21 Q. Who filed these? Was it you?

22 A. Our engineer, Mr. Sprinkle, whose name is
23 signed on the operator certificate.

24 Q. Do you know what date these were tendered to
25 the Oil Conservation Division district office?

1 A. The certification says July 10, '17.

2 Q. But you don't know what date they were actually
3 submitted?

4 A. No, I do not.

5 Q. Are you aware that this is after the
6 one-and-a-half-mile well was proposed by OneEnergy?

7 A. Yes.

8 Q. And after both two-mile wells were also
9 proposed?

10 A. Yes.

11 Q. And after they filed for a hearing?

12 A. Yes.

13 Q. And after a continuation was requested by V-F;
14 is that correct?

15 A. Yes.

16 Q. Besides filing these two permits, what other
17 actions has V-F taken to develop the acreage?

18 A. Well, V-F purchased this lease in 2008 and has
19 been producing ever since. And there are formations
20 other than the Bone Spring. And if you look on one of
21 the exhibits that Mr. Bruce has submitted, you can see
22 all the other permits that have been filed offsetting
23 our acreage.

24 Q. Okay.

25 A. You can also see the acreage where Mewbourne

1 has drilled, and they drilled a Bone Spring well. And
2 so we are watching the industry activity. At the
3 opportune time, we felt it necessary to drill a Bone
4 Spring horizontal well. So our development -- our
5 development plans have been based on acreage, activity
6 in the area, the price of oil. The fact that oil is at
7 a low price right now doesn't make much economic sense
8 to drill -- to drill a whole bunch of different wells.
9 So when we look at the development of acreage, we have
10 many prongs to evaluate.

11 Q. Okay.

12 A. And we are not a private equity-backed company.
13 We don't have parameters to meet. And as I said, we've
14 been in business since 1963, and we like to protect our
15 correlative rights on our leases and not be affected by
16 what industry private-equity companies are doing
17 offsetting us.

18 Q. So I see that these are both Bone Spring
19 permits; is that correct?

20 A. That is correct.

21 Q. Are these for a 3rd Bone Spring target?

22 A. That is correct.

23 Q. So my question really earlier -- and you can
24 limit your response to this -- was with respect to these
25 two wells, what else has V-F done to work on

1 development? Have you hired a contract rig?

2 A. I think we will defer that to some of the other
3 testimonies.

4 Q. Okay. And just one more questions. I
5 understand that V-F operates a number of vertical wells;
6 is that correct?

7 A. That is correct.

8 Q. How many horizontal wells has V-F drilled?

9 A. We have drilled no horizontal well. We've
10 drilled a lot of directional, a lot of slant wells.

11 Q. But no one-mile horizontal wells?

12 A. That's right.

13 Q. Thank you.

14 CROSS-EXAMINATION

15 BY EXAMINER McMILLAN:

16 Q. Now, this overlapping pool, that issue will
17 have to be resolved by Hobbs, and only Hobbs
18 will -- only Hobbs determines the pools. Any other
19 emails are irrelevant.

20 MS. KESSLER: I understand.

21 EXAMINER McMILLAN: Okay.

22 Any questions?

23 EXAMINER BROOKS: Well, yeah.

24

25

1 CROSS-EXAMINATION

2 BY EXAMINER BROOKS:

3 Q. Well, you said that you thought that
4 OneEnergy's application should be denied in the interest
5 of the prevention of waste and protection of correlative
6 rights. You weren't asked about why you have that
7 opinion, so I'm going to ask you that question. What is
8 the reason for that?

9 A. Well, I will refer to the other testimonies
10 that will be given. We're prepared to address that.

11 Q. Okay. Very well.

12 I think I understood one thing that you
13 said, and I think you were saying that if you are going
14 to develop your acreage for production from other
15 formations, that it would be advantageous to have the
16 well service --

17 A. Wellbore.

18 Q. The wellbore, on the vertical portion of the --
19 on your line so that you can economize on your own
20 drilling costs. I understand that. Of course, it would
21 be problematic whether or not another operator would
22 choose to propose a well in that scenario. However, if
23 you entered into an operating agreement with someone,
24 then you could propose a well under an operating
25 agreement; could you not?

1 A. Well, the operating agreement that has been
2 proposed is specific to the Bone Spring.

3 Q. Oh, okay.

4 A. We did receive an operating agreement for the
5 Wolfcamp.

6 Q. Yeah.

7 A. And I'm assuming that was in error because they
8 did not propose the Wolfcamp.

9 Q. Have there been any negotiations with regard to
10 the terms of the operating agreement between you and
11 OneEnergy?

12 A. Negative. Not at this time.

13 Q. Okay. You used another term which I'm not
14 very -- I'm not really -- I really have very little
15 familiarity with capital markets, so what do you mean
16 when you describe a company as a private equity company?

17 A. Well, that could be better answered by -- by
18 OneEnergy, I'm sure, but private equity backs groups of
19 technical teams to come in and develop acreage and drill
20 wells. And we can cite maybe a dozen instances in the
21 past three or four years where the money comes in -- say
22 it's a half billion dollars that's given to a technical
23 team. The technical team will drill a few wells, then
24 flip it, sell it to another group. And when OneEnergy
25 first introduced themselves a number of months ago, they

1 disclosed that they were a private equity-backed
2 company.

3 Q. Okay. So I'm still not entirely sure what that
4 is, but I assume that it means some group of people who
5 has access to the capital markets raises the money, and
6 then they find somebody to spend it for them?

7 A. That right. They raise money from investors
8 out of New York or wherever, and -- they're more like
9 hedge funds. You may be more familiar with that.

10 Q. Well, I've heard of them. I don't really know
11 much about them. But thank you. That's all I have.

12 EXAMINER McMILLAN: Go ahead.

13 CROSS-EXAMINATION

14 BY EXAMINER DAWSON:

15 Q. Good afternoon, Mr. Gahr.

16 You said you purchased your lease in -- it
17 was issued in October of 2008?

18 A. That is correct.

19 Q. It was a five-year lease?

20 A. Correct.

21 Q. And you drilled a well in 2009; is that
22 correct?

23 A. We re-entered the well.

24 Q. You re-entered the well?

25 A. Correct.

1 Q. And what zone is that well producing out of?

2 A. That's out of the Pennsylvanian.

3 Q. So it's deeper?

4 A. That is right.

5 Q. Is that what -- how much is that well producing
6 now?

7 A. It's probably producing less than 1,000 Mcf a
8 month.

9 Q. So you need to move pretty quickly drilling a
10 well out there before that well could be possibly --

11 A. That's correct. That's one of the -- one of
12 the things you think about when you have development
13 plans.

14 Q. Uh-huh. And that's the only well that is
15 holding your lease?

16 A. That is correct.

17 Q. Okay. You spoke about talking with Apache on
18 agreement. Is Apache -- do they own interest in the
19 northeast quarter?

20 A. That is correct. Yeah, an affili- --
21 affili- -- a related party, one of the sister companies.
22 "Affiliate" is what I was looking for.

23 Q. Okay.

24 A. Uh-huh.

25 Q. So your potential plans for your lease would be

1 to drill the west half with two one-mile horizontals and
2 then possibly go to the east half and drill two more,
3 maybe more, one-mile horizontals in the east half?

4 A. Yes. That's on the board.

5 Q. With 50/50 with Apache over there?

6 A. That is correct.

7 Q. Okay. And you have spoken with the rancher?

8 A. Yes.

9 Q. Okay.

10 A. The rancher called us, and we've had several
11 conversations with him.

12 Q. But the rancher's house and everything is
13 Section 1, right?

14 A. That is right. And it's approximately 1,500
15 feet from the wellbore.

16 Q. And, I guess, did you talk to him about surface
17 production facilities and everything that you would have
18 on your wells?

19 A. We will. We will.

20 Q. Did you talk to him previously about placement
21 of your production facilities?

22 A. Negative.

23 Q. Would they be pretty close to his house?

24 A. We would work that out with the rancher. As I
25 had mentioned, we have several wells on his ranch, and,

1 historically, we've always found him accommodating, as
2 we've been accommodating. So I don't consider that to
3 be an issue.

4 Q. So you -- so you have the northwest-south of
5 that section?

6 A. We have the west half.

7 Q. I mean the west half of the south --

8 A. Southeast. Yes. Uh-huh. Uh-huh.

9 Q. And you spoke about having the -- you've
10 participated in some wells with Mewbourne in the
11 immediate area?

12 A. That's -- yes.

13 Q. Are they drilling one mile, one and a half, two
14 miles or an assortment of all?

15 A. An assortment.

16 We are participating with one quite a few
17 miles away, a two-mile. And one of the things in
18 previous testimonies that was ignored was the mechanical
19 risk, and risk is a big factor. And in this particular
20 well that we are drilling with Mewbourne, they lost the
21 hole and then -- in the lateral section, and then they
22 are -- they redrilled it, and they lost it again. So
23 the AFE that we signed doesn't reflect what the actual
24 cost is.

25 Q. So in their lateral, when they were drilling

1 that well, how far out from their vertical section -- or
2 vertical hole does the lateral penetrate before they hit
3 problems?

4 A. I would say -- to not be too specific on
5 footage, probably about two-thirds of the length before
6 they -- before they lost the well.

7 Q. So they got upper [sic] mile --

8 A. Right.

9 Q. -- on their lateral before they encountered a
10 problem?

11 A. Right.

12 Q. And the costs, when they encountered those
13 problems, went up tremendously for your company?

14 A. That's right. You paid for the lateral section
15 twice.

16 Q. Do you know if they're having issues with any
17 of the other over a mile-long laterals that they're
18 drilling, not only Mewbourne but some of the other
19 companies in the immediate area?

20 A. We don't have any interest in any others that
21 Mewbourne operates that are two-mile.

22 Q. Okay. If you drilled a mile-long lateral
23 within your section -- and I know this is kind of asking
24 a question you probably can't answer. But, eventually,
25 once you get to that setback area, I guess you'd have to

1 push a mile-and-a-half lateral or drill an east-west to
2 be able to recoup those reserves within the 330-foot
3 setback to the north?

4 A. Would you mind repeating the question, please?

5 Q. If you drilled two one-mile south to north --

6 A. Okay.

7 Q. Is that what you would propose, south to north,
8 also?

9 A. Right. Uh-huh.

10 Q. Yeah. That's what you're proposing here.

11 A. Right. Yes. Uh-huh.

12 Q. So -- well, you'll eventually produce from your
13 330 -- you'll produce those 330-foot setbacks on the
14 edges of your section?

15 A. The testimony that is upcoming will address
16 that, as far as moving the location off so you get a
17 better -- you get more footage on lease.

18 Q. Okay. Then I'll ask them those questions.

19 A. That's right. Thank you.

20 Q. That's all the questions I have. Thank you.

21 MR. BRUCE: Mr. Examiner, if I could ask
22 two questions.

23 EXAMINER McMILLAN: Do they relate to land,
24 or will --

25 MR. BRUCE: One does.

1 EXAMINER McMILLAN: Then ask that question.

2 MR. BRUCE: Okay.

3 EXAMINER McMILLAN: And then ask --

4 MR. BRUCE: Okay.

5 REDIRECT EXAMINATION

6 BY MR. BRUCE:

7 Q. You're talking about the well you joined in
8 with Mewbourne?

9 A. Correct.

10 Q. And I believe there are probably a number of
11 parties, but V-F Petroleum was in it?

12 A. That is correct.

13 Q. And Fuel Products --

14 A. Correct.

15 Q. -- and some other interest owners?

16 But is that in an area that was -- the
17 two-mile lateral, was that in an area where you owned
18 one mile 100 percent, or did you just have different
19 interests throughout the well units?

20 A. We had some acreage that we contributed to a
21 unit.

22 Q. Okay. But it wasn't -- it wasn't a half
23 section or 160 acres?

24 A. It was 160 acres.

25 Q. And the spacing? What was the well spacing on

1 **that? Was the well 640 acres?**

2 A. The spacing on that has changed because of the
3 inability to drill that well. So it has shrunk from --
4 from a two-miler down to whatever length. I think it's
5 480.

6 **Q. But you do work with other industry members?**

7 A. Certainly.

8 **Q. Thank you.**

9 MS. KESSLER: A brief redirect [sic]?

10 EXAMINER McMILLAN: Yes.

11 RE CROSS EXAMINATION

12 BY MS. KESSLER:

13 **Q. You mentioned a vertical well?**

14 A. Yes.

15 **Q. Where is that located?**

16 A. The vertical well in Section 1, reflected on
17 the maps, would be in the northwest quarter section.

18 **Q. My question is -- it's a little bit difficult**
19 **to tell from these maps, but it looks like it's not**
20 **drilled 330 feet off the line, correct?**

21 A. I'll defer to subsequent testimony on the exact
22 footage of the surface location.

23 **Q. Sure.**

24 Okay. My question is: If you re-enter
25 that well to develop the Bone Spring, which you

1 mentioned earlier, which would be a cost savings --

2 A. Uh-huh.

3 Q. -- if it's more than 330 feet off the line,
4 which it certainly appears from this map, you're leaving
5 even more undeveloped resources in the ground, correct?

6 A. Your analogy would apply to all vertical wells
7 drilled in the Basin.

8 Q. That are located more than 330 feet off the
9 line?

10 A. Right.

11 MR. BRUCE: Call my next witness.

12 EXAMINER McMILLAN: Yeah. Let's go.

13 (Laughter.)

14 MR. BRUCE: And this is my last witness.

15 SCOTT GERMANN,

16 after having been previously sworn under oath, was
17 questioned and testified as follows:

18 DIRECT EXAMINATION

19 BY MR. BRUCE:

20 Q. Please state your name for the record.

21 A. Scott Germann.

22 Q. Where do you reside?

23 A. Midland, Texas.

24 Q. What is your -- by trade, what are you?

25 A. A geologist.

1 **Q. What is your relationship to V-F and the other**
2 **parties at this point?**

3 A. Currently, I'm on contract with V-F to do these
4 types of things. We bring on horizontal staff, and we
5 start developing their acreage and evaluate, you know,
6 exactly what we should do to, you know, expand, increase
7 position, that kind of thing.

8 **Q. What is your educational and employment**
9 **background?**

10 A. Master's, University of Sydney, Australia and
11 University of Tulsa, combination master's in geology, an
12 undergrad in geology from Eastern Illinois University.

13 I came out with Exxon, to the Delaware, to
14 drill my first well with Exxon very close to here, and
15 that was in 1988. International with Exxon after that.

16 Then I formed a new division for a family
17 company out of Tulsa, Oklahoma called Nadel & Gussman.
18 And I opened that office actually in Roswell initially
19 back in '94 and then moved that office to Midland
20 subsequently and was with them for 20 years
21 predominantly drilling almost -- not exclusively, but by
22 and large most of our wells were in Eddy and Lea
23 Counties, both horizontal and vertical.

24 **Q. And what was your position at Nadel & Gussman**
25 **as an ex-geologist?**

1 A. Yes. I was a general manager. I did all
2 facets underneath me, engineering, geology, land,
3 accounting, the whole thing.

4 **Q. And then I believe Nadel & Gussman subsequently**
5 **joined with the BC Operating group?**

6 A. Yes. I combined -- I went to the BC Operating
7 group, and we combined the assets for a 70,000-acre
8 position in Eddy, Lea and Chaves Counties. And I was
9 named the president of that organization, and I had all
10 the drilling underneath me and the geology and the
11 steering of that entity under my belt with
12 Nadel & Gussman and BC as a joint venture.

13 **Q. And were a number of horizontal wells drilled**
14 **under that?**

15 A. Yes.

16 We had a lot of non-op wells, but we
17 actually drilled ten operated wells under BC. That's
18 not counting the Nadel & Gussman wells before BC. But
19 in the joint venture with BC, which would be a more
20 modern frac type of thing, we drilled ten wells, and
21 then we sold that to Marathon for \$1.1 billion. And
22 then I started working for Marathon on contract for two
23 months, and we went to three rigs with Marathon. And I
24 was operating the three rigs for Marathon before I left
25 BC and Marathon.

1 Q. And were you previously qualified as an expert
2 petroleum geologist before the Division?

3 A. Yes.

4 Q. And are you familiar with the geologic matters
5 involved in these applications and in V-F's acreage?

6 A. Yes, sir.

7 MR. BRUCE: Mr. Examiner, I tender
8 Mr. Germann as an expert petroleum geologist.

9 MS. KESSLER: A couple of questions.

10 VOIR DIRE EXAMINATION

11 BY MS. KESSLER:

12 Q. Mr. Germann, was BC Operating a private
13 equity-backed company venture?

14 EXAMINER McMILLAN: Let's -- I see where
15 you're going. Let's just get his qualifications.

16 MS. KESSLER: No objection.

17 EXAMINER McMILLAN: So qualified.

18 CONTINUED DIRECT EXAMINATION

19 BY MR. BRUCE:

20 Q. Let's run through your exhibits, Mr. Germann.
21 There will be some subsidiary questions, but what is
22 Exhibit A?

23 A. Exhibit A is simply a current activity map
24 showing basically -- these are all one-mile grids, of
25 course. The wells in question are located in 22-34 in

1 Sections 1 and 12. And this is deep rights. So this is
2 just kind of a Bone Spring bubble map. And, by the way,
3 the color code denotes -- it's kind of hard to see
4 sometimes, but, like, a brown well would be a 3rd Bone,
5 and an orange would be a 2nd Bond Spring. So you can
6 kind of coordinate which wells are which.

7 And you notice that basically on this map
8 we have the 160 and the 320 that we've been discussing
9 colored yellow. Apache, the northeast quarter, is not
10 colored. There is also -- we have the two permits by
11 V-F on this map, and you can see that there are not any
12 horizontal wells around the V-F well except on the
13 catty-corner one in Section 11 that the Mewbourne wells
14 came up before. So there are no offset wells in 2.
15 There are no offset wells in 6 or 36 yet. There are
16 permits, but there are no drilled wells in any of that.
17 So this is simply a base map showing a location of the
18 V-F acreage.

19 **Q. And what is Exhibit B?**

20 A. Exhibit B is the next step, of course. That is
21 the permits. So you can see that there are
22 mile-and-a-halves permitted to the north that are 2nd
23 Bone Spring, the orange dot. There are some miles over
24 in 3. There is a set of miles in 35 that are 2nd, the
25 wells in 34. And also, yes, there is a two-mile there

1 in Section 2 into 35.

2 **Q. And what is Exhibit C?**

3 A. Exhibit C is a Bone Spring map, and this is on
4 the top of the 1st Bone Spring. And we have values on
5 this map to show you the contour intervals, so you can
6 check the contours and see the dip. These are 50-foot
7 contours, and -- we've been talking toe to dip and all
8 this kind of thing, so updip is to the north, right?
9 The well would be starting at a minus 4,950, rising up
10 to -- the toe would be at a 4,750 on the structure map.

11 **Q. For a two-mile lateral?**

12 A. For a two-mile lateral, that's correct. So
13 that's 200 possible feet of dip, depending on your
14 interpretation and your mapped interval, for a two-mile
15 lateral.

16 **Q. One thing getting into the question that went**
17 **to Mr. Gahr, on your cross section, the well right in**
18 **the middle is the gas well that's been producing for**
19 **quite some time?**

20 A. Yes, sir. That was drilled by Getty in '79 and
21 then plugged. And then V-F picked up the lease, has
22 been told, and re-entered the well.

23 **Q. And just to clarify, you're not -- V-F isn't**
24 **proposing using that wellbore for a horizontal at this**
25 **point, is it?**

1 A. No. No. That's correct.

2 By the way, the correct footage is 1,650
3 from the north and 1,650 from the west. And I'm sure
4 most people will remember that that was the correct
5 footage for Morrow spacing at the time. We subsequently
6 had changed that at the OCD, so you can have a different
7 leaseline now. But that was the correct spacing at the
8 time for a Morrow well in '79 when that well was
9 drilled.

10 Yes. And to answer your question more
11 specifically, what Mr. Gahr was referring to, that if we
12 drill on our lease, on the leaseline legal, if something
13 happened to that wellbore, you could re-enter that
14 wellbore and go up from the 330.

15 **Q. So not looking at that well, let's say you're**
16 **drilling from south to north. What you're talking about**
17 **is the vertical portion of V-F's two proposed wells, you**
18 **could go uphole in the vertical portion of that wellbore**
19 **and attempt completions in that?**

20 A. That's correct. If something happened to the
21 wellbore or it faded, you know, it wasn't economic for
22 whatever reason, yes, you could go up in that wellbore
23 and make another Bone Spring well.

24 I should say there are vertical producers
25 in the Bone Spring in this area, as well as Wolfcamp.

1 Both of them do produce vertically.

2 Q. And that's a benefit to having a surface
3 location on your own lease?

4 A. That's correct.

5 Q. Financial benefit?

6 A. Yes, sir. And that would be lost if it was off
7 lease.

8 Q. So if OneEnergy is putting the surface location
9 on their acreage, you don't get that -- V-F does not get
10 that benefit?

11 A. That's correct.

12 Q. And, once again, the well would be drilling
13 updip?

14 A. That's right, south-north in both cases, and
15 both would be climbing dip.

16 Q. We'll get back to that in a few minutes.

17 What is Exhibit D?

18 A. Exhibit D is a 3rd Bone Spring isopach, and it
19 is a gross isopach. And the reason I picked this is
20 because there are several wells that set pipe vertically
21 in the middle of the 3rd Bone Spring. So it's very
22 difficult to make a net isopach because of that, because
23 they set casing in the '70s and the '80s right in the
24 middle of the pay before entering the Wolfcamp. So you
25 can't really make a net to gross that's accurate. So

1 this is an easier map to make of the entire 3rd Bone
2 Spring.

3 But what this shows is that on the west
4 half-west half, which would be our initial well, Getty
5 well, you are thickening as you go west. So we would
6 encounter somewhere between 330 and 352 feet of net pay
7 on the west half-west half-mile proposals. Contrasted
8 to the well in 12, in the northwest quarter, it would be
9 315 feet. Again, these are our maps. Of course, you
10 guys know the rules. If you have three geologists, you
11 have five different maps, right? But we understand
12 that. But this is our interpretation and those values.

13 And not only that, the other acreage
14 continues to decrease in thickness as you go to the
15 east. So we think the west half-west half would be the
16 most optimal location to have the thickest sand.

17 **Q. Okay. The Morrow rock probably -- the thicker**
18 **the rock in that third string, the more economic the**
19 **well?**

20 **A. Correct.**

21 **Q. And we've got better quality rock than they do?**

22 **A. Yes, sir.**

23 **Q. Let's move on to Exhibit E, the cross section.**
24 **Would you describe --**

25 **A. Sure. This is simply a -- the entire Bone**

1 Spring section, okay, not just in the 3rd Bone interval.
2 So you can see not only do you have potential pay in the
3 1st Bone, the 2nd Bone and the 3rd Bone.

4 Tell me if I'm going too fast.

5 And, basically, it again shows the stacked
6 nature. So as you guys know, the OCD only recognizes
7 the Bone Spring. Right? And so we'd be force pooling
8 an entire giant interval between the 1st Bone, the 2nd
9 Bone and the 3rd Bone. Okay? And, again, our data
10 points match pretty well before. There might be a few
11 feet off, but they match pretty closely. And the 3rd
12 Bone is orange, the 2nd Sand is red, and the 1st Bone is
13 yellow on this cross section.

14 The key well that we would be penetrating
15 is the -- by the way, I should say, A, A prime, which is
16 the first three wells, go west to east, and B, B prime
17 goes north to south, with the V-F key well in the
18 middle. And, by the way, it's a little hard to read,
19 but that's 11,2 -- 11,200 right there where the line
20 crosses the bottom of the 3rd Bone Spring. If you want
21 to write that on there, that's 11,200 feet.

22 By the way, you can see the next example.
23 To the right of the well in Section 12, with the pipe
24 set right in the middle of the 3rd Bone Spring Sand, it
25 makes it very difficult to do an isopach on a net

1 porosity basis.

2 Q. And, once again, if you get back to the
3 vertical section, you mentioned the 1st, 2nd, 3rd Bone
4 Spring. But have V-F and Fuel Products seen other
5 vertical targets in this general area above the Bone
6 Spring?

7 A. Certainly so, both Delaware and even at the
8 hold. Even Humble was in here early drilling for some
9 shallow section.

10 Q. Now, let's get to the updip wellbore. And did
11 you listen to the testimony of Mr. Ramsden?

12 A. Yes, sir.

13 Q. First of all, can there be problems drilling
14 updip on a two-mile?

15 A. Yes. There could be a problem drilling downdip
16 on a two-mile well. But even so, on a two-mile updip,
17 it does make it more difficult.

18 Q. You are right at the bottom of the 3rd Bone
19 Spring here, aren't you?

20 A. The depth that they originally gave us, yes.
21 They were at 11,208. I think subsequently, in the
22 exhibit they presented, they were slightly higher. But
23 what they gave us in the proposal letter was 11,208,
24 which would be the very base of the sand. Yes.

25 Q. And what can happen with two-mile laterals?

1 A. Well, so basically what happens is that when --
2 and I've drilled several two-miles. So what happens if
3 you're not careful, you're fighting two things. You're
4 drilling updip, and then Mother Nature's gravity wants
5 to start pulling that down. Okay? So what happens is,
6 as you're drilling, you start fading. You start
7 drooping with your drill pipe in the horizontal.

8 And the biggest fear -- when we're talking
9 about rights here and who is protecting what, my biggest
10 concern is there is not much difference in thickness
11 between the base of the 3rd and the top the Wolfcamp.
12 And there is a very good chance that this wellbore could
13 drift and not be able to control it. Even with, I'm
14 sure, the best efforts possible, the wellbore could
15 drift and actually leave the 3rd Bone because of this
16 updip nature and cross into the Wolfcamp. Then whose
17 rights are you protecting, because it's not a 3rd Bone,
18 it's not a Wolfcamp? It's a half-and-half, and it's a
19 Wolfbone type thing. And that is not what we're talking
20 about here. We're talking about a 3rd Bone.

21 And, by the way, another concern: This
22 4-1/2-inch drill pipe, it is known to fade. You better
23 have 5-inch drill pipe in there to contain it, because a
24 5-inch is much stiffer, right, than the 4-1/2-inch. And
25 the 4-1/2 will bend much easier with gravity as you're

1 drilling. So another concern for someone who has not
2 drilled a two-mile before, that's a -- that's a minus
3 right there off the go. Okay? So that's number one.

4 So we must make sure (A) there is a 5-inch
5 drill pipe in there to try to retain the angle the best
6 we can and fight that dip, because you will be fighting
7 gravity the whole time.

8 And then if you try to fight it, guess what
9 happens? Your AFE starts doing this (indicating).
10 You've got more days on location because you have to
11 change out the bottom-hole assembly. And then all of a
12 sudden, the 9 AFE goes to an 11 AFE or a
13 10-and-a-half AFE. Right? And then plus, you might be
14 totally messing up a brand-new zone.

15 Contrast that. If we drill miles, we have
16 much better control. You have less dip. You can
17 control it much better, and then you can -- what we call
18 a wine rack. You could drill a 3rd Bone well, and then
19 you can drill a Wolfcamp well and control and stay in
20 zone, and guess what -- yes, magic -- protect rights.

21 Q. But if it does dip into the -- especially
22 heading to the north. Like you said, if it does dip
23 into the Wolfcamp, could that potentially mess up the
24 development of the 3rd Bone Spring and the Wolfcamp in
25 that half section of Section 1?

1 A. Certainly. Certainly. And it's significant
2 risk. And it would be a risk even if it's not 200 feet.
3 Just argue that it's 100 feet or 75 feet. You still,
4 with a 4-1/2-inch drill pipe down there, even if it's
5 flat -- let's just say there is no dip at all. Even if
6 it's flat, you will have a hard time because gravity
7 will pull that 4-1/2 pipe down. It also pulls 5-inch
8 pipe down, too. You'll be fighting it the whole way.
9 And that's why that 9 AFE is -- you know, is probably
10 pretty light if you're drilling in this case.

11 **Q. And I think in the testimony of one of the**
12 **exhibits, a one-mile AFE was about 7.3 million. Is that**
13 **a little high?**

14 A. That's probably a little high. Now, again, I
15 would say probably in the low sixes would be for a mile.

16 Now, also, as everyone knows, the frac is
17 getting larger and larger. The drilling of the well's
18 less than 50 percent of the cost now, and it really
19 depends what size frac you're going to use, right, and
20 how big of a frac you're going to put on it.

21 But yes, that number is too high on that --
22 whatever exhibit page that is, Jim. I don't have that
23 exhibit page. That AFE is too high, and probably the
24 two-mile is too low.

25 **Q. I think that was Exhibit 19.**

1 A. Thank you. Exhibit 19.

2 Q. Now, as part of your employment with V-F,
3 you've got the experience in horizontal drilling. Does
4 V-F, Fuel Products also hire other expert consultants?

5 A. Certainly. We for sure will. As a matter of
6 fact, we've already engaged Octane -- Octane Energy
7 Management Company. And they are exactly the same
8 company that I used at BC to drill our two-miles, our
9 mile-and-a-halves. And they were in the field, and they
10 had engineers in the field. And they will be -- and
11 we've already made a contract with them to represent V-F
12 when we drill our miles. Not just this, but the rest of
13 the Basin as well.

14 Q. And frac consultants, they've had them in
15 place?

16 A. Certainly. They've got excellent frac
17 consultants that fracked all over the world, actually,
18 including New Mexico.

19 Q. And is that what you were hired to do, to get
20 some horizontal development going for those entities?

21 A. Certainly. Exactly right.

22 Q. Mr. Ramsden-Wood's study -- it was his Exhibit
23 21 where he talked about a mile lateral versus a
24 two-mile lateral and the extra production. If you take
25 his numbers, which is, for a two-mile lateral, 1,449,000

1 barrels, and for a one-mile lateral, 675,000 barrels,
2 that's like -- the two-mile, it's 2. -- if I did the
3 math right, 2.1, 2.15 times greater than for a one-mile
4 lateral; is that correct?

5 A. Not --

6 Q. His number.

7 A. That would be his number. Yes.

8 Q. Has V-F conducted an internal standard study of
9 Bone Spring wells in Lea County regarding production
10 versus lateral?

11 A. Not in Lea County.

12 I've also conducted the same study over the
13 majority of the Delaware Basin, and currently. And
14 that's very important. I'm not saying five years down
15 the line. I'm saying today, right now, there is no
16 one -- no way you can take a mile and double it and say
17 those EURs for a mile to two-mile. The data is
18 supported. By the way, it's been admitted, and that
19 discussion has been admitted to this committee several
20 times in the past by significant operators, Mewbourne
21 and other folks. You just cannot take a one-mile EUR
22 and double it. The data does not suggest that right now
23 by any means. Matter of fact, it might be as low as a
24 .5 to .6 increase rather than to double it and talking
25 an increase double the factor.

1 MS. KESSLER: Mr. Examiners, I would object
2 because we don't have this data in front of us. We have
3 no way to analyze this.

4 MR. BRUCE: It's his knowledge.

5 EXAMINER BROOKS: Well, I think that goes
6 to the weight rather than to the -- if that's a
7 consideration, it goes to the weight rather than to the
8 admissibility. He's subject to cross-examination on
9 this.

10 Q. (BY MR. BRUCE) But if you took his number of
11 675,000 barrels for a one-mile lateral and if the gain
12 was 1.5 or 1.6, not 2.15, you're just looking at a
13 little more than a million barrels rather than close to
14 1-and-a-half million barrels; is that correct?

15 A. Yes.

16 And one other thing, we have no parameters
17 in the presentation of the exhibits. For example, as
18 you guys know, one of the things it does if you conduct
19 EURs is what we call B factor. What's the B factor
20 currently being utilized to do these EURs? The data
21 wasn't presented. So I don't know if we're using a 1.6,
22 a 1.1, and that's going to greatly change the EUR
23 numbers on the B factor. And so we just don't know --
24 we don't know what those numbers were to go into these
25 numbers.

1 I'll tell you that 1.5, 1.4 and some
2 change, whatever it is, is an extremely high EUR right
3 now for New Mexico. It's extremely high. That would be
4 the second point.

5 The last exhibit -- I can't remember --
6 Exhibit 26 -- or what was the last page -- about the
7 number of two-mile wells drilled, there's been very few
8 two-mile horizontals that have many years of production
9 on them, so determining what they will do at an economic
10 limit is still in the future. We have no idea what that
11 currently is or what will happen. So that's a real
12 speculation point, jumping from a well that was drilled
13 in 2016. Is it going to last 20 years, 30 years or 40
14 years? We do not know that. The talk of economic limit
15 out there is pretty speculative.

16 **Q. And, again, on the engineering study here,**
17 **you're looking at wells drilled from 2013 to 2017, and**
18 **there's been a vast improvement in technology over that**
19 **four- or five-year period.**

20 A. Yes. Yes. And that came up in the testimony.
21 You know, it is more than -- it is more than prop sand,
22 and it is -- you know, there are gels. There is
23 slickwater. There are surfactants that were mentioned.
24 All of that's very, very true.

25 **Q. Reservoir quality?**

1 A. Right.

2 One thing that is very concerning to myself
3 and V-F is the sliding sleeve completion style. I think
4 it would be really interesting to go back and, of those
5 two-miles, see which ones used sliding sleeves in their
6 completion profile. As V-F mentioned, we're in several
7 non-ops and I was in several non-ops with BC and
8 Nadel & Gussman. We stayed away -- way away from
9 sliding sleeves. And even with the new technology in
10 sliding sleeves -- I understand the new technology.
11 I've reviewed it countless times. Sliding sleeves
12 add -- it is cheaper, but it adds much more risk
13 downhole, especially with two-miles.

14 MS. KESSLER: Mr. Examiner, I object to
15 further testimony about completions. He was qualified
16 as a petroleum geologist.

17 MR. BRUCE: Well, Mr. Examiner, he also
18 testified that as GM of Nadel & Gussman, he was the
19 president of the joint venture where he oversaw all
20 aspects of that. And just on a practical basis, he has
21 faced this for years and years.

22 MS. KESSLER: He's offering expert-opinion
23 testimony, though, on things that are beyond what he's
24 qualified for.

25 EXAMINER BROOKS: Are you tendering him for

1 additional expertise?

2 MR. BRUCE: He's already testified about --
3 he said he knew completion techniques and drilling
4 completions, and I would tender him as an expert in
5 those fields.

6 MS. KESSLER: He's not an engineer. He's a
7 geologist.

8 EXAMINER BROOKS: Okay. Well, I think
9 that, again, the OCD practice -- it goes to the
10 practice. So I will -- I will allow the testimony to
11 cross-examination of any limitations to his expertise
12 that may be in the record.

13 Q. (BY MR. BRUCE) Mr. Germann, a couple of other
14 factors: When there is an a mechanical problem that you
15 have to address in a one-mile lateral, is that
16 compounded in a two-mile lateral?

17 A. Yes, it can be.

18 Q. It can be.

19 Can it make the well -- the drilling more
20 difficult and more costly?

21 A. Yes, and the completion as well.

22 Q. And Mr. Gahr referenced a well being drilled
23 with Mewbourne?

24 A. Yes, who has drilled thousands and thousands of
25 horizontal feet in the state of New Mexico. It happens

1 to everyone.

2 Q. Mr. Ramsden-Wood's study is -- it's nice data,
3 but is what he's assuming a perfect world?

4 A. Yes.

5 Q. Is this world perfect?

6 A. No, sir.

7 Can I answer that one (laughter)?

8 Q. This is more practical -- you know, if this
9 well was being drilled two miles and V-F only owned a
10 40-acre tract somewhere, the situation might be
11 different, rather than owing a full 320 acres?

12 A. Yes, it definitely would. And V-F has a great
13 record of working with non-ops and some of the best in
14 the business. So we have a good 2017 and a 2018 non-op
15 program already planned. I won't say the value, but
16 it's an extremely high value for private individuals,
17 planned for 2017 and 2018, with some of the best
18 operators in New Mexico.

19 Q. And since you are with BC, BC was acquired by
20 Marathon; was it not?

21 A. That's correct.

22 Q. What price per acre did they obtain that for?

23 A. I probably -- I can't probably say, but I can
24 stay that it's a lot more -- considerably more than they
25 were offered. And, of course -- by the way, back on

1 that exhibit, those are Marathon -- now Marathon wells,
2 in Section 36. So Marathon does like this area. Those
3 mile-and-a-halves, they were -- they were -- they also
4 purchased Black Mountain. So 36 to 25 are Marathon
5 wells. So Marathon has a lot of interest in this area,
6 and the amount was over double of what was offered
7 from -- from -- from -- in this case.

8 **Q. The amount that Marathon paid for Black**
9 **Mountain --**

10 A. Somewhere a little over 700 million. I do not
11 know -- I do not know the per-acre and I can't divulge
12 the per-acre, but it was quite a bit more than this
13 offering.

14 **Q. Than was offered to V-F?**

15 A. Yes.

16 **Q. One final question: Assuming you start**
17 **fracking 330 feet -- from the first frac, 330 feet off**
18 **to the well unit and then the last frac, 330 feet, does**
19 **the frac extend outward in each instance?**

20 A. Yes. It's not a 2D frac. It goes in all
21 directions. Now, there have been lots of studies done,
22 and we could send some SPE studies and talk about how
23 these fracs radiate both off the toe and off the heel.
24 But yeah, it's not a perfect -- perfect footage. That's
25 correct.

1 Q. And one mile isn't -- 660 feet of --

2 A. We did not think so, no, sir, at BC.

3 Q. Were Exhibits A through E prepared by you or
4 under your supervision?

5 A. Yes, sir.

6 Q. And in your opinion, is the denial of
7 OneEnergy's applications in the interest of
8 conservation, the prevention of waste and the protection
9 of V-F's correlative rights?

10 A. That's correct.

11 MR. BRUCE: I move the admission of V-F
12 Exhibits A through E, Mr. Examiner.

13 MS. KESSLER: No objection.

14 EXAMINER McMILLAN: Exhibits A through E
15 may now be accepted as part of the record.

16 (Respondents' Exhibit Letters A through E
17 are offered and admitted into evidence.)

18 MR. BRUCE: And I have no further
19 questions.

20 EXAMINER McMILLAN: Cross-examination?

21 MS. KESSLER: Sure.

22 CROSS-EXAMINATION

23 BY MS. KESSLER:

24 Q. Mr. Germann, let's start where you left off at
25 the 330-foot drainage.

1 A. Sure.

2 **Q. What are you relying on?**

3 A. There are published reports from the Society of
4 Petroleum Engineers that talk about the radiation of
5 tracks, and it's just not a 2D. Obviously, it's not.
6 You're fracking the well and putting thousands and
7 thousands of pounds of sand and water inside the
8 wellbore. So it's not just going to go out that far.
9 It's going to go in all directions.

10 **Q. Did you provide that today as an exhibit?**

11 A. No, I did not.

12 **Q. And there is nothing currently provided by V-F**
13 **Petroleum in front of the Division that would offer any**
14 **sort of explanation about that, is that correct --**

15 A. That's correct.

16 **Q. -- any exhibit?**

17 A. An exhibit, that's right.

18 **Q. Moving backwards, you mentioned that Marathon**
19 **acquired BC; is that correct?**

20 A. Correct.

21 **Q. And you worked for BC for as long as --**

22 A. 18 months. That's correct.

23 **Q. You mentioned initially their footprint. What**
24 **was it?**

25 A. It was -- the combined asset was over 70,000

1 acres.

2 **Q. 70,000 acres?**

3 A. Yes. That's correct. Not all -- that's the
4 footprint that we actually sold to Marathon, but I
5 wouldn't say -- all that 70,000, of course, was what we
6 call tier one, or some in the shelf, some in Chaves
7 County, some in northern Lea. So it was scattered, but
8 a total of 70,000.

9 **Q. Today we're talking about 320 acres, correct?**

10 A. Yes, or 480.

11 **Q. Or 480.**

12 A. Yeah.

13 **Q. So when you're comparing the amount of money**
14 **that Marathon paid for BC's footprint to 320 or 480**
15 **acres, that's not apples to apples?**

16 A. No. You're exactly right. The lease sale last
17 month would probably be much closer to apples --

18 **Q. Sure.**

19 A. -- or at least fruit, perhaps.

20 **Q. It's late in the day and I'm getting hungry.**

21 (Laughter.)

22 **Q. All right. Let's talk about your structure**
23 **map --**

24 A. Yes, ma'am.

25 **Q. -- which was Exhibit C?**

1 A. Yes.

2 Q. Help me out here. I am not a geologist. This
3 says "top of the Bone Spring."

4 A. Yup.

5 Q. Is that the top of the 1st Bone Spring?

6 A. Yes. It's the top of the 1st Bone, the base of
7 the Upper Brushy Canyon.

8 Q. Okay. Why did you choose the top of the Bone
9 Spring for your structure map?

10 A. Sure. A couple -- great question. So a couple
11 of things. One, this is the unit we're talking about to
12 correlate the interval. Okay? It is -- we're pooling
13 the Bone Spring. Okay? That's number one.

14 Two, the -- you have to drill through this
15 zone to get down there when you start cutting your
16 angle. Right? Okay?

17 And so -- and so, three, it is the most
18 pronounced difference of a structure map between the --
19 in the Bone Spring. The rest of these, we can correlate
20 around, and I don't have a problem with the 3rd Bone.
21 But oftentimes we work the 1st Bone well to help that
22 first guy.

23 Q. So when you say -- when you were talking about
24 drilling through the structure -- the lateral through
25 the structure and you were using this map, that's

1 **actually not accurate, correct? Because you're just**
2 **drilling through the 1st Bone Spring to get to the 3rd**
3 **Bone Spring and then drilling laterally out?**

4 A. That's right. And -- that's sort of correct.
5 And yeah, you're right. We could have used a deeper
6 structure or a middle structure to show that. However,
7 the point really is to make that in a two-mile, even if
8 it's flat -- even if it's flat and there is no
9 structure, zero to zero, which it's not, but if it was,
10 you still have a 4-1/2-inch pipe; you still have to
11 drill downwards and sometimes with a 5-1/2 pipe.

12 Q. But you just spoke extensively about the fact
13 that we were drilling down updip --

14 A. Updip, yup.

15 Q. -- 200 feet.

16 A. And you can see the values.

17 Q. On the 1st Bone Spring?

18 A. Exactly right. Exactly right.

19 Q. So this is not the 3rd Bone Spring. And are
20 you worried that Mr. Clark's structure map was of the
21 3rd Bone Spring?

22 A. To be honest, there were no values on the 3rd
23 Bone Spring map, so I couldn't tell what the values were
24 on the map. There were no values presented on the map,
25 on the exhibit.

1 **Q. Okay. Let's look at Exhibit D. You referred a**
2 **number of times to the net pay that you calculated.**

3 A. No, ma'am. Gross pay.

4 **Q. Okay. I'm actually going to quibble with you**
5 **there because you definitely said net pay. Did you mean**
6 **gross pay?**

7 A. I apologize if I said that. This is a gross
8 isopach --

9 **Q. Yes.**

10 A. -- right? And that's what we matched.
11 Remember, I mentioned, I thought -- maybe I misspoke.
12 But I mentioned that we did a gross, because on the
13 cross section, they're setting pipe in the middle of the
14 3rd Bone Spring Sand, and it's very difficult because
15 you don't have a porosity log when you set pipe like
16 that. You can't make a true porosity map. So I
17 apologize if I did that. Yes. This is a gross map and
18 a gross thickness.

19 **Q. So you would agree with me that you can't**
20 **calculate net pay based on this map?**

21 A. Yeah. You can't -- you can't calculate net pay
22 off of a gross isopach. No, it's not possible. You
23 have to have logs to do it. But the numbers are still
24 the same in the thickness.

25 **Q. Okay. Let's look at Exhibits 12 and 13 in my**

1 **book. Do you have that in front of you?**

2 A. No, ma'am, I do not.

3 **Q. I think I gave it to Mr. Bell -- sorry --**
4 **Mr. Gahr.**

5 MR. BRUCE: Your Exhibits 12 and 13?

6 MS. KESSLER: Yeah.

7 THE WITNESS: Yes, ma'am.

8 **Q. (BY MS. KESSLER) So I'm looking, on the one**
9 **hand, at 12 and 13, and on the other hand, I'm looking**
10 **at this enormous map.**

11 A. Awesome. Okay.

12 **Q. Block, not map.**

13 **Where is the base of the 3rd Bone Spring on**
14 **your lots?**

15 A. Just -- it's the top of -- the top of the
16 orange, so, again, going back to the V-F well. The top
17 of the Bone Spring is right there at the top of brown,
18 and the base, as I mentioned, the bottom, which is 11,2
19 and some change, 11,208, 11,210.

20 **Q. Are you familiar with the permits filed that**
21 **are included as Exhibits 12 and 13, those two permits?**

22 A. I'm familiar with them. They were not made
23 under my supervision because I hadn't gone over to V-F.

24 **Q. Okay. And as of July 10th, you weren't at V-F?**

25 A. No, ma'am.

1 Q. Okay. Are you aware in the well file that it
2 identifies total depth for the target as 11,477 feet
3 TVD?

4 A. No, I'm not.

5 Q. Based on your map -- and that's part of the
6 administrative record. I'll just represent that to you.
7 Based on your map, that would put you on the Wolfcamp
8 Formation for these two permits, correct?

9 A. Yeah. If that was done -- that was probably in
10 error, if it was done that way.

11 Q. Okay. So these permits, to the extent they are
12 TVD of 11,477 feet, would not be for the Bone Spring
13 Formation?

14 A. We would have to change it to make -- as their
15 landing point was changed, that would have to be changed
16 as well.

17 Q. Okay. We have talked a lot about one-mile
18 versus two-mile economics. That's really the subject of
19 this hearing. And you offered some testimony about
20 one-mile versus two-mile economics. And in your
21 opinion, one-mile economics were good?

22 A. Yes. One-mile can be good.

23 Q. What data are you relying on to support your
24 analysis of one-mile versus two-mile economics?

25 A. Well, I've done a lot of economics or I have a

1 lot of economics done for me comparing the one-mile and
2 the mile-and-a-half and the two-mile. We had
3 third-party assessments made at BC with that kind of
4 thing. Obviously, I can't present that data here. So
5 I'm familiar how those numbers look.

6 Q. So nothing that you're offering to the Division
7 today beyond your personal opinion --

8 A. That's correct. That's right.

9 Q. -- that shows --

10 A. We're not presenting an exhibit. That's
11 correct.

12 Q. And have you personally conducted any studies
13 for V-F Petroleum establishing economics or EUR recovery
14 of one-mile versus two-mile wells?

15 A. Yes, through a third party.

16 Q. Okay. Why isn't that part of the record?

17 A. I don't know.

18 Q. Is that something you would be willing to
19 provide?

20 A. I'm not -- you're probably asking the wrong
21 person.

22 Q. Were the studies conducted for you?

23 A. For V-F.

24 Q. And you've reviewed them?

25 A. Yes.

1 **Q. But you're not offering them as an exhibit?**

2 A. Not at this point.

3 **Q. Okay.**

4 MS. KESSLER: I would ask that those be
5 submitted, if he's relying on them for his opinions.

6 MR. BRUCE: I don't have them with me.

7 MS. KESSLER: Okay. I'd like to review
8 them, if that's possible.

9 MR. BRUCE: Oh, sure. I'll submit them to
10 the Division, too.

11 EXAMINER McMILLAN: Submit to every
12 affected party.

13 MR. BRUCE: Sure.

14 **Q. (BY MS. KESSLER) One last question: You're**
15 **aware that AFE is a cost estimate, correct?**

16 A. Certainly so.

17 **Q. And that an updated AFE, based on final costs,**
18 **have been submitted to parties that are pooled prior to**
19 **election?**

20 A. Correct.

21 MS. KESSLER: Thank you.

22 Pass the witness.

23 CROSS-EXAMINATION

24 BY EXAMINER McMILLAN:

25 **Q. First question: I don't understand the**

1 **relationship between 4-1/2 and 5. I wasn't clear on**
2 **that point.**

3 A. I'm sorry?

4 **Q. On the drill -- drill pipe?**

5 A. Oh, sure. Yeah. So a 5-inch -- 5-inch drill
6 pipe is much more stiff, if I can use that word. Right?
7 Whereas, 4-1/2 is not. Right? And so 4-1/2 -- think
8 about it. We're two miles out. If I could see how far
9 two miles out that window would be, it's extremely far.
10 And so I've got a two-mile out there, and, again,
11 gravity will pull that down. And so a 4-1/2 will be
12 easier for gravity to react with and will not be as
13 stiff as 5. So at BC, the last two-mile I drilled, we
14 did drill successfully; we did stay in zone, but it was
15 5-inch pipe.

16 **Q. And what is -- you said something about a**
17 **B factor.**

18 A. Yeah. That's an engineering factor that's used
19 to calculate reserves. Right? And oftentimes, B
20 factors are, you know, moved around and different things
21 to calculate those reserves. And they're usually done
22 at 1.1, 1.5. Some people are very aggressive and use a
23 1.7, and it does change your EUR. My rule of point is
24 with the B factor and everything else, there was no --
25 in the exhibits, there were no assumptions made that we

1 can see how the EURs were done. That's my rule of
2 point, whichever factor you use.

3 Q. Okay. The gross isopach -- I assume the well
4 on the right -- the John Hendrick [phonetic], is that
5 the well on the right?

6 A. Yes, sir, on A prime. I believe that's
7 correct. Let me check. Yes, sir. I'm sorry. John
8 Hendrick is the well in 12 -- excuse me -- on B prime.

9 Q. So it's -- is the -- is the well -- I'm
10 sorry -- in Section 36?

11 A. Section 36, that is correct. That is the Getty
12 36 State. It was operated by Burgundy, now by Marathon.

13 Q. Okay. You're saying that it's thinning?

14 A. Yes, dramatically as you go north into 36, and
15 also dramatically as you go into 6 and 5.

16 And, by the way, you point to that same log
17 there. You see the perforations that are actually done
18 in the 3rd Bone and the top of the Wolfbone? There is a
19 massive dolomite sequence there at the top of the
20 Wolfbone, is the reason why everything is thinning to
21 the north in 36, back to the point of vertical
22 production in this area historically in that Wolfcamp.

23 Q. Yeah. I guess --

24 A. I could easily forward this electronically, if
25 that would make it easier for you. I can do that for

1 everyone if I needed to.

2 Q. It looks like it's about 11,120 to --

3 A. And you're on the Getty well, again, right?

4 Q. Yeah. I'm on the Texaco.

5 A. Yeah. Sure. Okay.

6 Q. Are you saying that's 250 feet gross?

7 A. Yes.

8 Q. And then you're saying the well in Section 35
9 is 331 feet?

10 A. I'm sorry. The northeast of 1?

11 Q. Section 35.

12 A. Section 35. I'm sorry. Yeah, 331, and then to
13 362, making that a 350-foot contour on both sides of
14 that with a pick. And then you see another 352 in
15 Section 2. That draws the 350 down south -- pardon
16 me -- northwest to south --

17 Q. It appears to me that the giant question is for
18 the well in 25 that you don't have a value on.

19 A. Oh. Yes. And I just -- we just basically went
20 a mile around the subject questions [sic], but we could
21 definitely get that thickness for you.

22 Q. Yeah, that would be good.

23 A. Sure. No problem.

24 And it could be a chance it's closing back
25 up, and I didn't put that value on there.

1 Q. Well, I mean, you know, without that value, you
2 can -- without that -- the log value of that well, you
3 can do -- you are either going -- without it, you're
4 really -- the acreage in the west half of 36 is in
5 question.

6 A. No, sir. The west half of 1 and the west half
7 of 12. Their wellbore would start in 12 and go into 1.

8 Q. Oh, okay.

9 A. Sorry. Sorry about that.

10 Yes. 36 is the now Marathon-Black Mountain
11 section, and so their location would go from 12 into 1.
12 So we've got a lot of well control. We have all four
13 points layered out between the 350 and the 315 in
14 Sections 11 and 12 and then 2 and 1.

15 Q. Okay. Then you don't really need -- okay.
16 Then what I said was wrong.

17 CROSS-EXAMINATION

18 BY EXAMINER DAWSON:

19 Q. So that well in 25 is roughly a
20 mile-and-a-quarter away from -- from the proposed
21 bottom-hole location?

22 A. Yes, sir. Yeah. Yeah. Yeah. I didn't put
23 their proposed locations on here. I apologize. That
24 would have made it a little more clear.

25 Q. Let's go to your Exhibit D --

1 A. Yes, sir.

2 Q. -- your gross isopach.

3 A. Correct.

4 Q. In looking at your gross isopach, it looks like
5 you have about 330 feet gross in the northwest quarter
6 of Section 1 of 22 South, 34 East?

7 A. Correct.

8 Q. And it goes down to, like, 246 in Section --
9 I'm sorry -- yeah. Section 36 goes down 246, so
10 thinning to the north.

11 A. Correct.

12 Q. And then to the south, it seems to be thinning
13 roughly about -- the gross thins to about 315 feet?

14 A. Correct.

15 Q. So it thins about 15 feet going to the south?

16 A. Yes.

17 Q. Would you anticipate the net isopach would --
18 in your opinion, would it be -- the net thicknesses of
19 the zone of interest would be thicker in Section 1,
20 also, than in Section 12?

21 A. Yes, they would, mainly because what you see
22 there, going from 35 into 2 and 1, is that you have the
23 thickest part of the channel there. These are deposit
24 and submarine channels. And so yes, we would expect the
25 net porosity to mimic -- of course, not near as much net

1 iso- -- net pay, of course. But it would mimic where
2 the best sand would lie, would be in that west half-west
3 half.

4 Q. Because of the thickness of the gross --

5 A. Yeah.

6 Q. -- the whole 3rd Bone Spring?

7 A. That's correct. Yes.

8 Q. And then if you go over to Section 2, to the
9 west, it even looks better over there in the east half
10 of Section 2?

11 A. Correct, and again over -- the west half of 2.

12 Q. And that would point to -- back to your Exhibit
13 B as to why operators are proposing two-mile laterals
14 over there in Section 2 of 22 South, 34 East?

15 A. Yes, sir. Those are proposed right now,
16 according to the state records, as Wolfcamp wells. And
17 that's the purple dot on Exhibit B, not Bone Spring.

18 Q. Those are all Wolfcamps?

19 A. Yes. Those -- those two-miles, yes, sir.

20 Q. And then the wells to the north -- there are
21 mile-and-a-half wells to the north?

22 A. Are 2nd Bone Spring.

23 Q. Oh, okay.

24 A. Again, according to public records.

25 Q. So really you can't compare those wells to

1 **the -- either your proposal or the other proposal?**

2 A. It just shows there is multiple pay in this
3 area.

4 **Q. Yeah.**

5 A. And then other operators are concerned about
6 the Wolfcamp, and they're drilling the Wolfcamp, back to
7 my concern of if we drift into the Wolfcamp, have we not
8 protected rights.

9 **Q. Does V-F have the right -- is there any depth**
10 **segregations on your lease?**

11 A. No, sir, not that I am aware of. It's all
12 state lease, all depths, all rights.

13 **Q. And on your Exhibit E, looking at the Marathon**
14 **Oil Permian, LLC Getty 36 State Com #1 well --**

15 A. I'm sorry. One more time, sir.

16 **Q. On your B prime on exhibit E --**

17 A. Yes, sir.

18 **Q. -- the first well on the left, Marathon Oil --**

19 A. Correct. Uh-huh.

20 **Q. -- those perforations on this well, do they**
21 **correlate to where you perforate?**

22 A. Yes. That is a -- that is a Wolfcamp and a 3rd
23 Bone Spring producer vertically.

24 **Q. Do you know what -- roughly what that well is**
25 **producing now?**

1 A. Yes, sir. It's at the very bottom. It's
2 considered Wolfcamp right now, and it 25 Mcf a day. I
3 have the cum, but it would take me a few minutes to dig
4 out the cumulative production on that well. I do have
5 it with me, but it will take a minute to pull that out.

6 **Q. So they're producing still from the Bone Spring**
7 **and the Wolfcamp?**

8 A. Correct. But the OCD recognizes it as
9 Wolfcamp, as is reporting publicly.

10 **Q. Okay. On your proposed mile-lateral horizontal**
11 **well, Mr. Clark was saying they were going to use**
12 **roughly 1,850 pounds per foot and 35 barrels of water**
13 **per foot on their hydraulic fracturing operation. What**
14 **would you think you would use?**

15 A. We would probably be a little higher than that,
16 but not too much higher than that. I agree with the
17 testimony, that we are seeing some loss in value if you
18 go to a certain size sand. But maybe a little bit more
19 than that, but very close. But we have not designed our
20 AFE yet, and we have not designed a frac. That's coming
21 up, but we haven't done that yet.

22 **Q. That's all the questions I have. Thank you.**

23 EXAMINER BROOKS: No questions.

24 EXAMINER McMILLAN: Here's the thing we've
25 got to figure out, is when can you supply the data to

1 the affected parties?

2 MR. BRUCE: Either tomorrow or Monday,
3 whenever my clients straggle back into the office.

4 THE WITNESS: I'll be in tomorrow,
5 Mr. Bruce.

6 MR. BRUCE: And Ms. Kessler informed me
7 she's desperate to get home.

8 MS. KESSLER: Is that right?

9 MR. BRUCE: And I would like to go home,
10 too, and she would probably like to make comments on the
11 engineering data V-F has, and I would like to make a
12 closing but a written closing in a week or two.

13 MS. KESSLER: That would be -- that would
14 be fine with me.

15 EXAMINER McMILLAN: This is where I am
16 right now. I want to know when you're going to supply
17 it and then -- and then if you're going to supply it,
18 you've got to give them an adequate chance to review it.

19 MR. BRUCE: Oh, absolutely. Absolutely.

20 EXAMINER McMILLAN: So would everyone be
21 amenable to, say, you shall supply it by 4:00 on
22 Tuesday?

23 MR. BRUCE: Yeah. That will be fine.

24 MS. KESSLER: That's fine.

25 EXAMINER McMILLAN: Would that work for

1 you?

2 MS. KESSLER: Well, I guess what I would
3 recommend is -- I haven't consulted with my clients.
4 They may have comments on this, doing the cross --

5 EXAMINER McMILLAN: Oh, that's right. He
6 said he wants a week, but I want to give all the
7 affected parties the opportunity to evaluate the work.

8 MS. KESSLER: Thank you. So what I would
9 recommend would be continuing for two weeks, and we
10 could potentially cross-examine based on what we see in
11 those studies.

12 EXAMINER McMILLAN: Okay. So is everyone
13 amenable by no later than --

14 MR. BRUCE: Next Tuesday.

15 EXAMINER McMILLAN: -- next Tuesday at
16 4:00, and this case shall be continued until August the
17 31st?

18 EXAMINER BROOKS: Okay. And I will not be
19 participating on August 31st, but, you know -- which
20 will mean the Examiners will have to get legal advice
21 from someone else, but I don't think that will hamper
22 very much.

23 EXAMINER McMILLAN: I think that's --
24 that's amenable to everybody?

25 MR. BRUCE: That's fine.

1 EXAMINER McMILLAN: Okay. Then this case
2 shall be continued until the 31st contingent upon all
3 parties receiving the required information.

4 MS. KESSLER: Mr. Examiner, the last thing
5 I would just bring up is we have a pending motion to
6 stay if we -- if the stay will be in effect pending
7 argument on that, that's fine. If you want to argue
8 that two weeks from now, that's fine.

9 MR. BRUCE: Let's argue that -- it's my
10 point that there is nothing going on out there, and it's
11 premature -- I think it's proper procedure to rescind
12 the APD without having -- rather than stay its effect,
13 but that's up to Mr. Brooks to decide. Nothing's -- I
14 will say that nothing's going to happen in two weeks.

15 EXAMINER BROOKS: That is up to
16 Mr. Catanach to decide. There is sufficient -- I would
17 not want to recommend to the Examiners that they decide
18 it as a motion but rather that they present it to the
19 Director to consider. But if you will -- if you will
20 agree to not to take any action until such time as we've
21 had argument in the case and it's been --

22 MR. BRUCE: Agreed. Agreed.

23 EXAMINER BROOKS: -- been decided, we can
24 postpone the argument on that.

25 MS. KESSLER: Thank you.

1 EXAMINER McMILLAN: Okay. So Case Numbers
2 15758 and 15759 shall be continued until August 31st
3 contingent upon --

4 MR. BRUCE: Engineering data.

5 EXAMINER McMILLAN: -- based upon the
6 engineering data.

7 Thank you.

8 (Case Numbers 15758 and 15759 conclude,
9 5:06 p.m.)

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

3

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

21

22 MARY C. HANKINS, CCR, RPR
23 Certified Court Reporter
24 New Mexico CCR No. 20
25 Date of CCR Expiration: 12/31/2017
Paul Baca Professional Court Reporters

25