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 BLACK MOUNTAIN OPERATING, CASE NO. 15628 LLC FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Consolidated with

APPLICATION OF BLACK MOUNTAIN OPERATING, CASE NO. 15629 LLC FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Consolidated with

APPLICATION OF BLACK MOUNTAIN OPERATING, CASE NO. 15630 LLC FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Consolidated with

APPLICATION OF MEWBOURNE OIL COMPANY CASE NO \$\infty\$ 15600 FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Consolidated with

Consolidated with

APPLICATION OF MEWBOURNE OIL COMPANY CASE NO. 15601 FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

APPLICATION OF MEWBOURNE OIL COMPANY CASE NO. 15602 FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS EXAMINER HEARING March 30, 2017 Santa Fe, New Mexico

Page 2 1 BEFORE: PHILLIP GOETZE, CHIEF EXAMINER WILLIAM V. JONES, TECHNICAL EXAMINER 2 GABRIEL WADE, LEGAL EXAMINER 3 These matters came on for hearing before the New Mexico Oil Conservation Division, Phillip Goetze, Chief Examiner, William V. Jones, Technical 5 Examiner, and Gabriel Wade, Legal Examiner, on Thursday, March 30, 2017, at the New Mexico Energy, Minerals and Natural Resources Department, Wendell Chino Building, 6 1220 South St. Francis Drive, Porter Hall, Room 102, 7 Santa Fe, New Mexico. 8 9 10 11 12 13 14 15 16 17 18 19 20 21 REPORTED BY: Mary C. Hankins, CCR, RPR 22 New Mexico CCR #20 Paul Baca Professional Court Reporters 23 500 4th Street, Northwest, Suite 105 Albuquerque, New Mexico 87102 24 25

Page 3 **APPEARANCES** 1 2 FOR APPLICANT BLACK MOUNTAIN OPERATING, LLC: 3 SETH McMILLAN, ESQ. and 4 J. SCOTT HALL, ESQ. MONTGOMERY & ANDREWS LAW FIRM 325 Paseo de Peralta 5 Santa Fe, New Mexico 87501 (505) 982-3873 6 shall@montand.com 7 smcmillan@montand.com 8 FOR MEWBOURNE OIL COMPANY AND ICA ENERGY, INC.: 9 JAMES G. BRUCE, ESQ. Post Office Box 1056 Santa Fe, New Mexico 87504 10 (505) 982-2043 jamesbruc@aol.com 11 12 ALSO PRESENT: Mark Adams, Esq., Rodey Law Firm 13 14 15 16 17 18 19 20 21 22 23 24 25

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- 1 (1:52 p.m.)
- 2 EXAMINER GOETZE: Call Case Number 15628,
- 3 application of Black Mountain Operating, LLC for a
- 4 nonstandard oil spacing and proration unit and
- 5 compulsory pooling, Lea County, New Mexico.
- 6 Call for appearances.
- 7 MR. McMILLAN: Mr. Examiner, on behalf of
- 8 Black Mountain, Seth McMillan and Scott Hall, Montgomery
- 9 & Andrews.
- 10 MR. BRUCE: Mr. Examiner, Jim Bruce of
- 11 Santa Fe representing Mewbourne Oil Company.
- 12 EXAMINER GOETZE: Now, Mr. Hall and
- 13 Mr. McMillan, we have Case 15628, Case 15629 and Case
- 14 15630 that you have asked for consolidation?
- 15 MR. McMILLAN: Indeed, Mr. Examiner.
- 16 EXAMINER GOETZE: Also as a procedural
- 17 matter, you have requested that we hear Mewbourne's
- 18 cases regarding similar acreage, which would be Case
- 19 15600 and 15601; is that correct?
- MR. McMILLAN: That's correct,
- 21 Mr. Examiner.
- 22 EXAMINER GOETZE: Mr. Bruce?
- MR. BRUCE: That's correct.
- 24 EXAMINER GOETZE: And you have no
- 25 opposition to this?

- 1 MR. BRUCE: No.
- 2 EXAMINER GOETZE: You're not going to come
- 3 up and have a seat?
- 4 MR. BRUCE: I think I will.
- 5 EXAMINER GOETZE: Okay. Thank you.
- 6 MR. HALL: He's taking that break from
- 7 earlier.
- 8 (Laughter.)
- 9 EXAMINER GOETZE: So let's start off with
- 10 Case 15628 will be consolidated with Case Number 15629,
- 11 application of Black Mountain Operating, LLC for a
- 12 nonstandard oil spacing and proration unit and
- 13 compulsory pooling, Lea County, New Mexico, in
- 14 consolidation also with Case 15630, application of Black
- 15 Mountain Operating, LLC for a nonstandard oil spacing
- 16 and proration unit and compulsory pooling.
- 17 With that, we will also consolidate the
- 18 hearing of Case Number 15600, application of Mewbourne
- 19 Oil for a nonstandard oil spacing and proration unit and
- 20 compulsory pooling, Lea County, New Mexico, and Case
- 21 Number 15601, application of Mewbourne Oil Company for a
- 22 nonstandard oil spacing and proration unit and
- 23 compulsory pooling, Lea County, New Mexico.
- So we have five cases.
- MR. BRUCE: No, six.

- 1 EXAMINER GOETZE: You're going to throw in
- 2 the last one?
- 3 MR. BRUCE: Absolutely.
- 4 EXAMINER GOETZE: Okay. Well, then we'll
- 5 roll in the last one, Case Number 15602, application of
- 6 Mewbourne Oil Company for a nonstandard oil spacing and
- 7 proration unit and compulsory pooling, Lea County, New
- 8 Mexico.
- 9 Since we seem to have a full house, we will
- 10 start with opening statements.
- 11 Would you like to make one, sir?
- 12 OPENING STATEMENT
- MR. McMILLAN: Well, I hadn't prepared one,
- 14 but just very briefly, Mr. Examiner, we essentially have
- 15 competing applications here with well proposals that
- 16 overlap. We believe -- Black Mountain believes that we
- 17 have the better development plan. We are proposing
- 18 longer laterals, and I believe that the productivity and
- 19 economics of our plan are far superior to that being
- 20 proposed by Mewbourne. And we'll be putting on evidence
- 21 this afternoon in connection with that argument.
- Thank you very much.
- 23 EXAMINER GOETZE: Mr. Bruce?
- 24 OPENING STATEMENT
- MR. BRUCE: First of all, Mr. Examiner, I

1 forgot one thing. In all cases, I'm entering an

- 2 appearance also for ICA Energy, Inc.
- 3 But I think the evidence will show that
- 4 Mewbourne has the better development plan, as a matter
- 5 of fact. Development of the west half-west half of
- 6 Section 15 has already been developed. The development
- 7 plan is better. Our engineer will show that -- talk
- 8 about additional recovery is wrong because Mewbourne can
- 9 drill the wells cheaper, and there is no benefit to the
- 10 mile-and-a-half laterals. And they will also show the
- 11 offsets to the interest of Black Mountain oppose their
- 12 mile-and-a-half development plan and that virtually
- 13 everyone in Section 15, other than Mewbourne, has agreed
- 14 to the Section 15 one-mile laterals, and this is just
- 15 the way to go. Mewbourne has been working on this
- 16 prospect for two years -- over two years, and they have
- 17 the far better development plan, the better track
- 18 record, and Mewbourne's application should be granted.
- 19 EXAMINER GOETZE: On that note, we will ask
- 20 how many witnesses do you have?
- MR. McMILLAN: We have two, Mr. Examiner.
- MR. BRUCE: We have three.
- 23 EXAMINER GOETZE: So will the witnesses
- 24 please stand, identify yourself to the court reporter
- 25 and be sworn in, please.

1 MR. MITCHELL: Corey Mitchell with

- 2 Mewbourne Oil Company.
- 3 MR. CLESS: Nate Cless, Mewbourne Oil
- 4 Company.
- 5 MR. CUDE: Travis Cude, Mewbourne Oil
- 6 Company.
- 7 MR. ZIMMERMAN: Robbie Zimmerman, Black
- 8 Mountain Operating.
- 9 DR. McCRACKEN: Michael McCracken, Black
- 10 Mountain Operating.
- 11 (Mr. Mitchell, Mr. Cless, Mr. Zimmerman and
- Dr. McCracken sworn.)
- MR. HALL: Mr. Examiner, I'd point out that
- 14 Mewbourne was the first to file. These cases have been
- 15 continued a number of times. We'd be pleased to let
- 16 them go first.
- 17 MR. BRUCE: That's fine.
- 18 EXAMINER GOETZE: Yes. I did notice on the
- 19 case file that it is covered quite well in continuances.
- 20 And we will honor your courtesy and let Mewbourne go
- 21 first with their presentation.
- MR. BRUCE: Mr. Examiner, for practical
- 23 purposes, we will present testimony on -- the land
- 24 testimony -- the common land testimony on 15600 first,
- 25 and then we will present some common land -- and then we

- 1 will just refer to the exhibits for 15601 and 15602
- 2 because the basic testimony is the same, just to reduce
- 3 the time involved. And then there are certain exhibits
- 4 that are common to all -- land exhibits common to all of
- 5 them.
- 6 COREY MITCHELL,
- 7 after having been previously sworn under oath, was
- 8 questioned and testified as follows:
- 9 DIRECT EXAMINATION
- 10 BY MR. BRUCE:
- 11 Q. Would you please state your name, city of
- 12 residence for the record?
- 13 A. Corey Mitchell, Mewbourne, Midland, Texas.
- 14 Q. And who do you work for and in what capacity?
- 15 A. I work for Mewbourne Oil Company as a landman.
- 16 Q. Have you previously testified before the
- 17 Division?
- 18 A. Yes, sir.
- 19 Q. And were your credentials as an expert
- 20 petroleum landman accepted as a matter of record?
- 21 A. Yes, sir, they were.
- 22 Q. And are you familiar with the land matters
- 23 involved in all three of these applications, as well as,
- 24 for the most part, the Black Mountain applications?
- 25 A. I am.

- 1 MR. BRUCE: Mr. Examiner, I tender
- 2 Mr. Mitchell as an expert petroleum landman.
- 3 EXAMINER GOETZE: You're going to be lead,
- 4 so I'll ask Mr. McMillan all of these questions?
- 5 MR. HALL: Please.
- 6 (Laughter.)
- 7 EXAMINER GOETZE: Mr. McMillan?
- MR. McMILLAN: No objection.
- 9 EXAMINER GOETZE: Very well. You are so
- 10 qualified. Thank you.
- 11 Q. (BY MR. BRUCE) Mr. Mitchell, could you identify
- 12 Exhibit 1 for the Examiners and describe the well
- involved and what zone you're seeking to test?
- 14 A. Exhibit 1 is a Midland Map Company land plat of
- 15 Section 15, Township 23 South, Range 34 East.
- 16 Highlighted on the map is our proposed Pronghorn 15 B3AP
- 17 Fed Com #1H well. It is a 3rd Bone Spring Sand test
- 18 well encompassing the east half-east half of Section 15.
- 19 MR. BRUCE: And although I didn't staple
- 20 them together, Mr. Examiner, the second page would be
- 21 the C-102 for that well.
- 22 Q. (BY MR. BRUCE) Mr. Mitchell, is the name of the
- 23 pool and pool code given on that plat?
- 24 A. It is.
- 25 Q. And the surface- and bottom-hole locations, et

- 1 cetera, are given?
- 2 A. Yes, sir.
- 3 Q. And is the -- are the first take point and the
- 4 last take point orthodox?
- 5 A. Yes, sir.
- 6 Q. Is there an API number as of this date?
- 7 A. No, sir, there is not.
- 8 Q. Okay. What is Exhibit 2?
- 9 A. Exhibit 2 is our tract ownership set out for
- 10 this well. It also identifies the party that we are
- 11 seeking to pool, which is Black Mountain Operating, LLC.
- 12 Q. That is the only party you are seeking to pool
- 13 at this time?
- 14 A. Yes, sir.
- 15 Q. What is Exhibit 3?
- 16 A. Exhibit 3 is the summary of my communications
- 17 with Black Mountain Operating, LLC, as well as their
- 18 predecessor in title, Merit Energy Company. Also
- 19 attached to this summary of communication are copies of
- 20 the respective correspondence.
- Q. And when did Mewbourne first start working on
- 22 this prospect?
- 23 A. Around January of 2015.
- Q. And so there have been extensive contacts
- 25 between Mewbourne and Black Mountain since then?

- 1 A. And/or Merit, yes, sir.
- Q. And/or Merit.
- 3 And there are no unlocatable parties in
- 4 this well, are there?
- 5 A. No, sir.
- 6 Q. In your opinion, has Mewbourne made a
- 7 good-faith effort to obtain the voluntary joinder of
- 8 Black Mountain in this well?
- 9 A. Yes, sir.
- 10 Q. Could you identify Exhibit 4 and discuss the
- 11 cost of the proposed well?
- 12 A. Exhibit 4 is our proposed AFE for this well.
- 13 It sets out estimated dry-hole costs of \$2,279,400 and
- estimated completed costs of \$4,898,700.
- Q. And are these costs in line with the cost of
- other similar horizontal wells drilled to this depth in
- 17 this area of Lea County?
- 18 A. Yes, sir.
- 19 Q. Do you request that Mewbourne be appointed
- 20 operator of the well?
- 21 A. Yes, sir.
- Q. And do you have a recommendation for the
- amounts which Mewbourne should be paid for supervision
- 24 and administrative expenses?
- 25 A. We are requesting 7,500 a month for drilling

- 1 and \$750 a month for producing.
- 2 Q. And are these amounts equivalent to those
- 3 charged by Mewbourne and other operators in this area
- 4 for wells of this depth?
- 5 A. Yes, sir.
- 6 Q. And do you request that the rates be adjusted
- 7 periodically provided by the COPAS accounting procedure?
- 8 A. Yes, sir.
- 9 Q. Mr. Mitchell, I've handed you folders of land
- exhibits for Cases 15601 and 15602. Are they basically
- 11 the identical exhibits, more or less, as in Case 15600?
- 12 A. Yes, sir.
- 13 Q. The land plats, the C-102s, the interest
- ownership, the contacts with either Merit or Black
- 15 Mountain and the AFEs for the well?
- 16 A. Yes, sir.
- Q. And in both of them, in your opinion, has
- 18 Mewbourne made a good-faith effort to obtain the
- 19 voluntary joinder of Black Mountain in those two wells
- 20 as well?
- 21 A. Yes, sir.
- 22 Q. And do you request the same overhead rates for
- 23 these wells?
- 24 A. Yes, sir.
- Q. And in all of the wells, do you request that

- 1 the maximum cost plus 200 percent risk charge be
- 2 assessed if Black Mountain goes nonconsent in the well?
- 3 A. Yes, sir.
- 4 Q. Mr. Mitchell, was Black Mountain notified of
- 5 the hearings in these cases?
- 6 A. Yes, sir.
- 7 Q. And is that reflected in the Affidavit of
- 8 Notice marked as Exhibit A?
- 9 A. It is.
- 10 Q. Now, it was also mailed to Tom Ragsdale in
- 11 Houston. What is the status of Mr. Ragsdale?
- 12 A. We have since come to an agreement with
- 13 Mr. Ragsdale. He has executed our JOA and respective
- 14 AFEs.
- 15 Q. So you do not seek to force pool Mr. Ragsdale?
- 16 A. No, sir.
- 17 Q. And what is Exhibit 6?
- 18 A. Exhibit 6 is the list of the offset operators.
- 19 Q. And this is the offset operators to all three
- 20 wells?
- 21 A. Yes, sir.
- Q. And was notice of the application sent to all
- 23 offsets?
- 24 A. Yes, sir, it was.
- MR. BRUCE: And, Mr. Examiner, if you look

- 1 through all of this, all of the offsets did receive
- 2 actual notice of the first letter that was sent.
- 3 Lindy's Living Trust in Fort Worth was returned, but we
- 4 got a new address, so that trust did receive actual
- 5 notice.
- 6 Q. (BY MR. BRUCE) Mr. Mitchell, what is Exhibit 8?
- 7 A. Exhibit 8 is excerpts of our JOA dated February
- 8 1, 2016, covering Section 15, Township 23 South, 34
- 9 East.
- 10 Q. Okay. And does the JOA cover all of Section
- 11 15?
- 12 A. No, sir.
- 13 Q. And what depths does it cover?
- 14 A. It covers from the surface to the base of the
- 15 Wolfcamp Formation.
- 16 Q. Now, these three applications cover the east
- 17 half and the east half-west half of Section 15.
- 18 What about the west half-west half of
- 19 **Section 15?**
- 20 A. The west half-west half of Section 15, we have
- 21 already drilled a well there.
- Q. And did Black Mountain participate in that
- 23 **well?**
- 24 A. Yes, sir, they did.
- Q. There was a forced pooling hearing on that

- 1 well; was there not?
- 2 A. Yes, sir, there was.
- 3 Q. And subsequently Black Mountain signed the JOA
- 4 for the well?
- 5 A. Yes, sir. They signed a separate JOA than this
- 6 one.
- 7 Q. And what did that JOA cover?
- 8 A. That JOA covered the west half-west half of
- 9 Section 15 only as to the Bone Spring Formation.
- 10 Q. Okay. Was title kind of difficult in Section
- 11 **15?**
- 12 A. Yes, sir. Title's extremely complicated.
- Q. And quite a few -- quite a few working interest
- 14 owners in that section?
- 15 A. That is correct.
- 16 Q. Have you contacted the working interest owners
- 17 regarding both Mewbourne's well proposals, the JOA
- 18 parties?
- 19 A. Yes, sir, I have.
- 20 Q. And did you request letters of support from
- 21 Mewbourne's application?
- 22 A. Yes, sir, I did.
- Q. And did a number of parties sign letters of
- 24 support for Mewbourne?
- 25 A. Yes, sir.

- 1 Q. And is that marked as Exhibit 9?
- 2 A. Yes, sir, it is.
- Q. And what is Exhibit 10?
- A. Exhibit 10 is a letter from ICA Energy
- 5 addressed to Black Mountain Operating, LLC.
- 6 Q. Without going into details, you were copied
- 7 with a copy of this letter; is that correct?
- 8 A. Yes, sir, I was.
- 9 Q. And does it essentially state that ICA supports
- 10 Mewbourne's position in these cases?
- 11 A. Yes, sir, it does.
- 12 Q. Mr. Mitchell, what is Exhibit 11?
- 13 A. Exhibit 11 are copies of AFEs we received from
- 14 Black Mountain.
- 15 Q. When did you receive these AFEs, approximately?
- 16 A. I believe the letter was dated December 9th,
- and we received them around December 12th of 2016.
- 18 Q. And roughly what are the -- and these are for
- 19 all three of Black Mountain's proposed wells?
- 20 A. Yes, sir, they are.
- 21 Q. And what is the approximate amount of these
- 22 **AFEs?**
- 23 A. Just shy of \$8,300,000 for each one.
- Q. Now, after you received these, did you put
- 25 together a brief memo or statement of facts regarding

1 why Mewbourne's applications were preferable to Black

- 2 Mountain's applications?
- 3 A. Yes, sir.
- 4 Q. Was that done in late December?
- 5 A. Yes, sir, it was.
- 6 Q. What is Exhibit 12?
- 7 A. Exhibit 12 highlights one of the facts we set
- 8 out in the statement of facts letter we sent.
- 9 Q. And, basically, what does that say with regard
- 10 to well costs, Mewbourne versus Black Mountain?
- 11 A. It basically sets out that under the AFEs
- 12 provided to us, which were 8.25 million to right under
- 13 8.3 million for their 1.5 mile lateral, basically, that
- 14 was higher than 1.5 times Mewbourne's AFE for a one-mile
- 15 lateral, implying no cost savings for drilling the
- 16 extended lateral.
- 17 Q. And will Mewbourne's engineer testify about
- 18 this later?
- 19 A. Yes, sir.
- 20 Q. And did I provide a copy of that memo to
- 21 Mr. Hall, one of Black Mountain's counsel, in late
- 22 December?
- 23 A. Yes, sir.
- 24 Q. And what happened next?
- A. Approximately around January 11, 2017, we

1 received revised AFEs from Black Mountain Operating

- 2 revising the cost down approximately \$1 million.
- 3 Q. And will Mewbourne's engineer testify about
- 4 that also?
- 5 A. Yes, sir.
- 6 Q. But, essentially, what brought down the cost by
- 7 \$1 million within 30 days?
- 8 A. It appears that Black Mountain reduced their
- 9 completion cost and got rid of their contingency.
- 10 Q. And, again, will Mewbourne's engineer testify
- 11 about that later?
- 12 A. Yes, sir.
- Q. Mr. Mitchell, were Mewbourne Exhibits 1 through
- 4 in each of the three cases, plus Exhibits 5 through
- 15 13, which apply to all three cases, prepared by you,
- 16 under your supervision or compiled from company business
- 17 records?
- 18 A. Yes, sir, they were.
- 19 Q. And in your opinion, is the granting of
- 20 Mewbourne's applications and the denial of Black
- 21 Mountain's applications in the interest of conservation
- 22 and the prevention of waste?
- 23 A. Yes, sir.
- MR. BRUCE: Mr. Examiner, I move the
- 25 admission of Exhibits 1 through 4 in each of the three

- 1 cases and Exhibits 5 through 13.
- 2 EXAMINER GOETZE: Mr. McMillan?
- 3 MR. McMILLAN: No objection.
- 4 EXAMINER GOETZE: Very good. Then we will
- 5 enter in Exhibits 1 through 4 for individual cases
- 6 15600, 15601, 15602, and appropriate to all cases will
- 7 be Exhibits 5 through 12.
- 8 13?
- 9 MR. BRUCE: Yes.
- 10 EXAMINER GOETZE: Correction, 13.
- 11 (Mewbourne Oil Company Exhibit Numbers 1
- through 13 are offered and admitted into
- evidence.)
- 14 EXAMINER GOETZE: Your witness,
- 15 Mr. McMillan.
- 16 MR. McMILLAN: Just a few questions.
- 17 CROSS-EXAMINATION
- 18 BY MR. McMILLAN:
- 19 Q. Mr. Mitchell, you testified that title was
- 20 complicated in Section 15; is that right? It's a
- 21 complicated thing?
- 22 A. Yes, sir.
- Q. At this point are you fully confident in your
- 24 title?
- 25 A. Yes, sir.

1 Q. There are no lingering doubts about its

- 2 accuracy?
- 3 A. Not -- not -- no, sir.
- 4 Q. To your knowledge, is it true that in 2016,
- 5 Black Mountain offered to trade Mewbourne its acreage in
- 6 the west half of Section -- Section 15 with their east
- 7 half -- for your east half but that Mewbourne declined?
- 8 A. Yes, sir. We had a short discussion about it.
- 9 Q. Was it you personally who had the discussion?
- 10 A. Yes, sir.
- 11 Q. And with whom?
- 12 A. I believe it was Luke Midren.
- Q. Following that discussion, was it your
- 14 understanding that that offer was on the table?
- 15 A. We countered with another offer. So at that
- 16 point, I didn't think we were still discussing the
- 17 west-half-versus-east-half trade.
- 18 Q. Ultimately, Mewbourne declined the trade; is
- 19 that correct?
- 20 A. That's correct.
- 21 Q. And for what reason?
- 22 A. Because Mewbourne has a majority of the owners
- 23 in Section 15 under a JOA, and we felt that it would not
- 24 be right as operator of that section to -- to swap out
- 25 for one-half over another, with the understanding that

1 we are operator under a JOA and are looking out for the

- 2 best interest of all the parties in the section.
- 3 Q. Would it have been true, had that trade been
- 4 accepted by Mewbourne, that both parties could have
- 5 drilled longer laterals on their acreage?
- A. No, sir, not necessarily.
- 7 Q. Not to your mind. Okay.
- 8 And, also, at what level of management was
- 9 the trade declined?
- 10 A. Through the manager of Mewbourne Oil Company's
- 11 Midland District Office.
- 12 Q. Are there levels of management above that --
- 13 A. There are.
- 14 Q. -- within Mewbourne?
- 15 About how many?
- 16 A. I don't know, about two, three.
- 17 Q. Was the trade discussed at any higher levels of
- 18 management as far as you know?
- 19 A. No, sir, it was not.
- Q. What are Mewbourne's plans for the Wolfcamp on
- 21 this acreage?
- 22 A. I'm not sure.
- Q. At this point do you know if Mewbourne has any
- 24 plans to get into the Wolfcamp?
- 25 A. Possibly in the future. Right now our

- 1 immediate focus is the Bone Spring Formation.
- 2 Q. Okay. Do you know what the spacing unit is for
- 3 the Wolfcamp in this vicinity?
- A. I believe it is 320-acre spacing unit for
- 5 Wolfcamp gas.
- 6 Q. Given a longer -- larger spacing units here,
- 7 wouldn't it be fair to say that longer laterals would
- 8 ultimately aid in recovery of the Wolfcamp?
- 9 A. I can't speak to that.
- 10 Q. I believe either your counsel mentioned it in
- 11 his opening statement or you may have testified to it.
- 12 You've already drilled the well in the west half-west
- 13 half of Section 15, correct --
- 14 A. Correct.
- 15 Q. -- one of these Pronghorn wells?
- 16 Did you own --
- 17 I'll let you answer the question. Is that
- 18 the Pronghorn 1 well?
- 19 A. It's the Pronghorn 15 B3BO Fed Com #1H well.
- 20 Q. Okay. And when you -- did you file a C-108 on
- 21 that well?
- 22 A. I'm not sure which one the C-108 is.
- Q. Okay. Did you -- at the time that you applied
- 24 to drill the Pronghorn well in the west half-west half
- of Section 15, did Mewbourne own in each of the tracts

- where the wellbore traversed?
- 2 A. Yes, sir.
- 3 Q. Let me backtrack. I said C-108. I meant
- 4 C-102. Do you recall filing a C-102 as to the Pronghorn
- 5 well?
- 6 A. I believe a C-102 is the survey plat, and it
- 7 would have been filed with the APD, is my understanding.
- 8 Q. Okay. And at that time, is it your
- 9 understanding that Mewbourne owned in each of the tracts
- 10 where the wellbore was to traverse?
- 11 A. Yes, sir.
- 12 Q. So it's my understanding that that well was
- 13 approved -- this is the west half-west half of Section
- 14 15 well -- was approved and drilled before Mewbourne
- 15 embarked on any further development in the area; is that
- 16 correct?
- 17 A. No, that is not correct.
- 18 Q. To what degree had you embarked on your
- development plan for the rest of Section 15 when you
- 20 received approval of the well in the west half-west
- 21 half?
- 22 A. Well, I'm not exactly sure what date we
- 23 received approval for the west half-west half, but we
- 24 put together the entire section at one time.
- Q. Okay. You applied for the west half-west half

1 before applying to develop any of the rest of Section

- 2 **15**, correct?
- 3 A. I do not know that that is correct. I'm not
- 4 sure when we filed the subsequent wells.
- 5 Q. Right. But they were subsequent to filing the
- 6 west half-west half well, correct?
- 7 A. I do not know that that's a true statement.
- 8 They are subsequent to the drilling of the well in the
- 9 west half-west half --
- 10 **Q.** Okay.
- 11 A. -- as in the west half-west half well is the
- 12 first well we drilled.
- 13 Q. Right. Right.
- And was there a hurry in getting that well
- 15 drilled? Did you have a lease expiring or something?
- 16 A. We did have obligations. Yes, sir.
- 17 Q. What were those obligations?
- 18 A. The acreage is federal, so it would not be a
- 19 lease. It was extended from term assignments that we
- 20 received from other owners in the section.
- Q. Okay. Do you recall -- in presenting your JOA
- 22 on the well in the west half-west half of Section 15,
- 23 did you communicate directly with Black Mountain with
- 24 respect to that JOA?
- 25 A. We originally proposed a JOA covering a full

1 section, as we did with all the other owners in the

- 2 section, to Black Mountain. Black Mountain -- we ended
- 3 up in pooling. Black Mountain did want to sign that
- 4 JOA. Upon request of Mr. Hall here, we -- in order to
- 5 work with Black Mountain, we sent an additional JOA
- 6 covering just the Bone Spring Formation as to the whole
- 7 section. Then upon further negotiation with Black
- 8 Mountain, we then reduced the JOA to cover the Bone
- 9 Spring Formation as to the west half-west half only.
- 10 Q. In those discussions with Black Mountain, did
- 11 you at any point represent to them they were the only
- 12 working interest owner not to have signed the JOA on the
- 13 west half-west half well?
- 14 A. One of.
- 15 **Q.** One of.
- 16 It's not your recollection or your
- 17 testimony that you represented that they were the only
- 18 one?
- 19 A. I mean -- I'm not sure. I'm not sure. We had
- 20 four full people -- or were forced pooling people a
- 21 small interest, so I may have said that we had everybody
- 22 else signed up in the aspect of all the parties who were
- 23 going to sign up.
- Q. But it wasn't true at that time that you had
- 25 all the parties other than Black Mountain signed up,

- 1 correct?
- 2 A. No, sir. Mr. Ragsdale was still hanging out at
- 3 the time.
- 4 Q. And ultimately weren't some small parties
- 5 pooled --
- 6 A. Yes, sir.
- 7 Q. -- in the west half-west half well?
- 8 MR. McMILLAN: I think that's everything I
- 9 have for right now.
- 10 EXAMINER GOETZE: Thank you.
- 11 Would you like to redirect or --
- MR. BRUCE: No, I don't.
- 13 EXAMINER GOETZE: Mr. Wade?
- 14 EXAMINER WADE: I don't have any questions.
- 15 CROSS-EXAMINATION
- 16 BY EXAMINER JONES:
- 17 Q. Mr. Mitchell, Section 15 is all federal; is
- 18 that right?
- 19 A. Yes, sir.
- 20 Q. Why were you putting -- were you proposing to
- 21 put your wells in the north -- near the north line of
- 22 that section? In other words, why the surface location
- 23 at that point?
- A. I'm not sure. I don't know if we were limited
- 25 to those locations or if it's to help out with our -- we

- operate a number of other sections nearby, so I don't
- 2 know if it's to coordinate with our surface facilities.
- 3 I'm not sure why we're coming from the north as opposed
- 4 to from the south.
- 5 Q. Do you have other surface facilities in this
- 6 area? Do you operate much more wells?
- 7 A. Yes, sir. We operate approximately five other
- 8 sections in the immediate area.
- 9 Q. Might have other wells in the --
- 10 A. Sections.
- 11 Q. Sections?
- 12 A. Yes, sir.
- 13 Q. So you're happy to operate more wells, to
- 14 increase your well number? You're not -- you're not
- 15 willing to switch over to another company and let them
- operate some wells? Your preference is to operate?
- 17 A. Yes, sir. Yes. We've invested quite a bit in
- 18 infrastructure in this area.
- 19 Q. Okay. And are all of the other wells in this
- 20 area one-mile wells, or how many -- the wells that you
- 21 operate?
- 22 A. Yes, sir.
- MR. BRUCE: Mr. Examiner, I think our next
- 24 witness will have that info.
- 25 Q. (BY EXAMINER JONES) Okay. But it's a

- 1 complicated land situation.
- 2 And when you drill the west half-west half
- 3 well, do you do most of that land work at that point for
- 4 that section?
- 5 A. Yes, sir.
- 6 Q. So you just used the same data and --
- 7 A. Yes, sir. The section is made up of two
- 8 federal leases that are checkerboard. So one covers the
- 9 northwest quarter and the southeast quarter, and the
- 10 other covers the northeast and southwest. So the
- 11 ownership is common for the most part throughout the
- 12 section based on those leases.
- 13 Q. Okay. Okay. Thank you.
- 14 EXAMINER GOETZE: His last question
- 15 answered mine. I have no further questions for this
- 16 witness.
- You have an engineer coming up, Mr. Bruce?
- MR. BRUCE: A geologist and an engineer.
- 19 EXAMINER GOETZE: Yes. We are going to
- 20 take a break.
- 21 Let's go ahead and take a ten-minute break
- 22 and mosey on back, pick it up with new testimony.
- 23 (Recess, 2:28 p.m. to 2:46 p.m.)
- 24 EXAMINER GOETZE: We're back on the record.
- 25 Mr. Bruce?

1 MR. BRUCE: I put the geologic exhibits in

- 2 front of you there.
- NATE CLESS,
- after having been previously sworn under oath, was
- 5 questioned and testified as follows:
- 6 DIRECT EXAMINATION
- 7 BY MR. BRUCE:
- 8 Q. Would you please state your name and city of
- 9 residence?
- 10 A. Nate Cless. I live in Midland, Texas.
- 11 Q. Who do you work for and in what capacity?
- 12 A. I'm a geologist for Mewbourne Oil Company.
- 13 Q. Have you previously testified before the
- 14 Division?
- 15 A. Yes, sir.
- 16 Q. And were your credentials as an expert
- 17 petroleum geologist accepted and made a matter of
- 18 record?
- 19 A. Yes, they were.
- 20 Q. And does your area of responsibility at
- 21 Mewbourne include this area of southeast New Mexico?
- 22 A. Yes, it does.
- 23 Q. And are you familiar with the geologic matters
- 24 related to these applications?
- 25 A. Yes, sir.

1 MR. BRUCE: Mr. Examiner, I tender

- 2 Mr. Cless as an expert petroleum geologist.
- 3 EXAMINER GOETZE: Mr. McMillan?
- 4 MR. McMILLAN: No objection.
- 5 EXAMINER GOETZE: Very good.
- And you are so qualified.
- Q. (BY MR. BRUCE) Mr. Cless, could you identify
- 8 Exhibit 14 for the Examiners and discuss its contents?
- 9 A. Yeah. Exhibit 14 is just a regional activity
- 10 map with all the horizontal activity covering 23 South,
- 11 34 East. On this map, I've also got a structure on the
- 12 top of the Wolfcamp Formation. You can see all the
- 13 horizontal wellbores on here, and they've got different
- 14 color codes to them.
- 15 We're interested primarily in the 3rd Bone
- 16 Spring Sand. That's where these wells that we're
- 17 talking about are going to be drilled, and those are
- 18 going to be the red laterals. The solid lines represent
- 19 wells that have been drilled, and the dashed lines
- 20 represent permits. The green lines on here are going to
- 21 2nd Bone Spring Sand wells. There is one brown line on
- 22 here, the Delaware horizontal, and some gray lines over
- 23 on the east side. Those are Avalon Shale horizontals.
- As far as the structure goes, like I said,
- 25 this is the structure on the top of the Wolfcamp

1 Formation. We sit -- and just about two or three miles

- 2 off this map to the west, there is a major fault, and so
- 3 we sit kind of on an uplifted part of this fault. So
- 4 we're going to be drilling these -- basically, Section
- 5 15 sits right at the very -- structurally at the --
- 6 structural high, I guess, for this area for the top of
- 7 the Wolfcamp and for the 3rd Bone Spring interval.
- 8 On this map, I've highlighted -- all the
- 9 acreage is highlighted in yellow. It is acreage that
- 10 Mewbourne currently operates horizontals in. So you can
- 11 see there's six different -- I guess seven different
- 12 sections that we currently -- we currently operate wells
- 13 in Section 9. Section 14 -- we operate wells in the
- 14 west half of Section 14. Section 15, we've currently
- 15 drilled the west half-west half well. Section 21, we
- 16 operate the south half, and then we operate the entire
- 17 sections in Sections 25, 35 and 36. We've drilled
- 18 approximately 13 horizontal wells in this area within
- 19 the last probably three to four years. So we're the
- 20 most active operator of horizontal wells in this area.
- 21 I've outlined the proration units which
- 22 we're discussing here. Mewbourne proposes to do
- 23 one-mile laterals in the east half-west half of Section
- 24 15, as well as the east half of Section 15. I've also
- 25 outlined what Black Mountain proposes to do with the

one-and-a-half mile laterals going in Section 15 up into

- 2 Section 10.
- 3 You can see that the north half of Section
- 4 10 I've got highlighted in blue, and I've labeled that
- 5 as potentially stranded acreage. The reason we believe
- 6 that it is potentially stranded acreage is, again, we've
- 7 drilled the west half-west half of Section 15 already
- 8 with a one-mile lateral.
- 9 We've been in touch with BTA, who is the
- 10 operator of Section 3 just to the north of Section 10.
- 11 They have given us a letter, which we will present as an
- 12 exhibit later on, stating they're the operator of
- 13 Section 3 and they fully intend to develop Section 3
- 14 with one-mile laterals. If Black Mountain were to drill
- 15 mile-and-a-half laterals, basically the majority of the
- 16 north half of Section 10, that would leave undeveloped
- 17 stranded acreage.
- 18 You can see that all but one well -- one
- 19 well in this area is drilled north-south. The one well
- 20 drilled east-west that we drilled, it's in the south
- 21 half of Section 21. That was the second well drilled
- 22 out here. At the time there were approximately three
- 23 horizontals drilled in this township, so we were -- all
- 24 we had was the south half of Section 21, testing to see
- 25 whether the east-west well would work in this area. The

1 production on it is significantly less than all the

- 2 north-south wells, and you can see all the other
- 3 operators in this area would agree with that. So you
- 4 basically have to drill north-south in this area to
- 5 maximize production.
- 6 Q. So if it came about that the interest owners in
- 7 the north half of Section 10 had to drill east wells,
- 8 would you recommend drilling that -- if you had an
- 9 interest in that acreage, drill an east-west well?
- 10 A. I would not.
- 11 Q. And, again, that would strand the west
- 12 half-southwest quarter of Section 10?
- 13 A. That's correct.
- Q. And will you have a little more information on
- 15 your east half east-west well in a few minutes?
- 16 A. Yes, sir.
- 17 Q. Now, you said Mewbourne has drilled over a
- dozen wells in this immediate area. As you're looking
- 19 at this township, Mewbourne has drilled numerous wells
- 20 both in -- horizontal wells in the Bone Spring and
- Wolfcamp both in Lea County and Eddy County; have they
- 22 **not?**
- 23 A. Correct.
- Q. They're one of the most active operators in the
- 25 state?

- 1 A. Correct.
- 2 Our engineer can testify to the number of
- 3 wells we have drilled, but I believe we've drilled over
- 4 300 horizontals in Eddy and Lea Counties. And I don't
- 5 believe Black Mountain has drilled any horizontal wells
- 6 in New Mexico.
- 7 Q. Could you identify Exhibit 15 for the Examiner?
- 8 A. Exhibit 15 is a gross isopach map on the 3rd
- 9 Bone Spring interval. This is an isopach from the top
- 10 of the 3rd Bone Spring to the base -- it's to the top of
- 11 the Wolfcamp, identifying the gross sand, and there's
- 12 roughly 300 feet -- 300 feet, plus or minus, of gross
- 13 sand across this interval. We've got pretty good --
- 14 three vertical wells which penetrate the 3rd Bone Spring
- 15 interval.
- 16 And I've also identified location of my
- 17 next exhibit on this map, which is just a three-well
- 18 cross section going through the three wells in Section
- 19 15.
- 20 Q. So the thickness of the 3rd Bone Spring
- 21 interval in this area is pretty --
- 22 A. Consistent.
- 23 Q. -- consistent?
- 24 Thank you.
- 25 A. Yes, sir.

- 1 MR. BRUCE: Having trouble here.
- 2 EXAMINER GOETZE: That's okay. I've had
- 3 trouble all day.
- 4 Q. (BY MR. BRUCE) What is Exhibit 16?
- 5 A. Exhibit 16 is a three-well cross section
- 6 covering the 3rd Bone Spring interval in this area.
- 7 Again, it's three wells which penetrate -- which go deep
- 8 enough to see the entire 3rd Bone Spring section. This
- 9 cross section is hung on the top of the 3rd Bone Spring
- 10 interval, and you can see -- I've labeled the bottom
- 11 line on here. The bottom blue line is the top of the
- 12 Wolfcamp Formation. And so you see, for the most part,
- 13 it's very consistent and uniform across this interval.
- 14 There are also some other correlation lines across this
- 15 that you can kind of correlate some of these -- some of
- 16 these smaller sands within the 3rd Bone Spring interval.
- We typically have landed our wells in the
- 18 bottom part of the 3rd Bone Spring interval, and you can
- 19 see that by the red arrow on the right-hand side of the
- 20 cross section.
- Q. In your opinion, in each of the three well
- 22 units, will each quarter-quarter section in each well
- 23 unit contribute more or less equally to production?
- 24 A. Yes, sir.
- 25 Q. And what is Exhibit 17?

1 A. Exhibit 17 is just a production data table for

- 2 all the Bone Spring horizontals in this township, so in
- 3 Township 23 South, 34 East. I've listed the name of the
- 4 wells, the operator, the API, the location, when they
- 5 were completed, as well as the cumulative oil, gas and
- 6 water and then what part of the Bone Spring interval
- 7 they're producing out of. Like I said, there are some
- 8 wells that have been drilled in the 2nd Bone Spring
- 9 Sand, but the majority of the wells have been drilled in
- 10 the 3rd Bone Spring Sand interval.
- Just -- just to look at the very first well
- 12 on here, it's the closest -- it's the closest 3rd Bone
- 13 Spring well to our proposed Section 15. It's the
- 14 Antelope 9 B3PA State Com #1H. We drilled it back in
- 15 September of 2015, and since that time, it's made
- 16 124,000 barrels of oil. That's a typo on the cumulative
- 17 amount of gas. It should be 0.2 bcf, not 2 bcf of gas,
- 18 and then 155,000 barrels of water. And that was the
- 19 north-south well.
- The one east-west well that was drilled in
- 21 this area is about two-thirds of the way down, and it's
- 22 called the Wildcat 21 LI Fed #1H. Again, it was drilled
- 23 by Mewbourne back in 2013, and in a little over -- in
- 24 approximately four years, it's made 65,000 barrels of
- 25 oil, a tenth of bcf of gas, and 90,000 barrels of water.

1 So you can just see the significant difference between

- 2 the north-south and east-west wells through there.
- 3 O. And if we look at COG's Banter State Com 4H
- 4 well, the fourth one down, that a north-south well; is
- 5 it not?
- 6 A. Yes, sir.
- 7 Q. And its cumulative production is almost
- 8 equivalent to your wildcat well?
- 9 A. Correct.
- 10 Q. Again, this justifies north-south orientation
- 11 in this township?
- 12 A. Correct.
- Q. And then very briefly, Mr. Cless, what are
- 14 Exhibits 18, 19 and 20? I don't think we need to go
- 15 into those too much.
- 16 A. These are just the directional drilling plans
- 17 that we have for each of our three proposed wells. It
- 18 just lists our TVDs and our measured depths for all
- 19 three proposed laterals.
- 20 Q. And, again, the first and last take point for
- 21 each well will be orthodox; is that correct?
- 22 A. Yes, sir.
- 23 Q. And how many completion stages does Mewbourne
- 24 generally use in mile laterals?
- 25 A. I'll defer that to our engineer.

1 Q. Okay. And in your opinion, is the granting of

- 2 Mewbourne's applications and the denial of Black
- 3 Mountain's applications in the interest of conservation
- 4 and the prevention of waste?
- 5 A. Yes, sir.
- 6 Q. And were Exhibits 14 through 20 either prepared
- 7 by you or compiled from company business records?
- 8 A. Yes, they were.
- 9 MR. BRUCE: Mr. Examiner, I'd move the
- 10 admission of Mewbourne Exhibits 14 through 20.
- 11 EXAMINER GOETZE: Mr. McMillan?
- MR. McMILLAN: No objections to 14 through
- 13 20.
- 14 EXAMINER GOETZE: Very good. Exhibits 14
- 15 through 20 are entered into the record.
- 16 (Mewbourne Oil Company Exhibit Numbers 14
- through 20 are offered and admitted into
- 18 evidence.)
- 19 EXAMINER GOETZE: Mr. McMillan, your
- 20 witness.
- 21 CROSS-EXAMINATION
- 22 BY MR. McMILLAN:
- Q. Take a look at Exhibit 15, sir. Looking in
- 24 Section 16, in the north half of 21, do you know how
- 25 long those laterals are, those green sticks there?

1 A. They appear to be mile-and-a-half laterals.

- Q. Do you know who is operating those laterals?
- 3 A. Concho.
- 4 Q. And do you know the production data on those
- 5 laterals?
- 6 A. Yes. That's displayed on Exhibit 17.
- 7 Q. Okay. That's very helpful.
- 8 You spoke to concerns about potential
- 9 stranded acreage, correct?
- 10 A. Yes, sir.
- 11 Q. Remind me who the operator in Section 3 is.
- 12 A. BTA.
- 13 **Q. BTA.**
- 14 Has BTA actually drilled any wells up there
- in Section 3, to your knowledge?
- 16 A. Not horizontal wells. They operate vertical
- 17 wells up through there, but I'm not sure whether they've
- 18 drilled those wells or not.
- 19 Q. Okay. Do you know if they're operating any --
- 20 I'm sorry. Your testimony was you don't
- 21 know if they're operating any horizontal wells up there?
- 22 A. They do not operate horizontal wells in
- 23 Section 3.
- Q. Okay. In discussing this potential stranded
- 25 acreage, I believe -- let's see. What was your exhibit

1 for that? I'll answer the question. Exhibit 14. Let's

- 2 look at Exhibit 14.
- 3 So I believe your testimony was that that
- 4 acreage could be -- in the north half of Section 10
- 5 could potentially be stranded because BTA is, I believe
- 6 you said, committed to drilling one-mile laterals up
- 7 there?
- 8 A. Yes. The majority of the north half could be
- 9 stranded. I believe the west half-west half could be
- 10 drilled with a mile lateral.
- 11 Q. Is there anything geologically or otherwise
- 12 precluding an entity, whether BTA or someone else, from
- drilling a longer lateral crossing Section 3, Section 10
- 14 line into the north half of Section 10?
- 15 A. Geologically, I do not believe so.
- 16 Q. So as we're all kind of speculating here as to
- 17 what could happen to Section 3 and the north half of
- 18 Section 10, we can't write off the possibility that
- 19 mile-and-a-half laterals could be drilled from Section 3
- 20 to into the north half of Section 10, thus filling in
- 21 that acreage?
- 22 A. I would say you can't write off the
- 23 possibility. However, we do have a letter stating that
- 24 their intent is to drill Section 3 with mile laterals.
- Q. However, just to repeat, they haven't actually

- 1 drilled those wells?
- 2 A. That's correct.
- 3 Q. Okay. And has BTA permitted any of those
- 4 one-mile laterals yet?
- 5 A. I do not know.
- 6 Q. And do you know how many wells BTA has drilled
- 7 in the past year?
- 8 A. I do not know.
- 9 Q. Do you have any idea how many rigs BTA is
- 10 operating?
- 11 A. No, sir.
- 12 Q. Safe to say that testimony concerning the plans
- of BTA in Section 3 is essentially speculative since
- 14 nothing's been permitted or drills up there?
- 15 A. BTA is currently drilling to the north in 22
- 16 South, 34 East. Outside of that -- and they're drilling
- 17 horizontals to the north. And so I would imagine at
- 18 some point in time, they plan on drilling Section 3.
- 19 Q. Right. But that's -- at some point in time
- that may be the plan for Section 3, but at this point,
- 21 we're just speculating?
- 22 A. Sure. Yes.
- Q. Okay. Just looking back at Exhibit 17, I just
- 24 want to look at those production curves for the four
- 25 mile-and-a-half long laterals in Section 16 and in the

1 north half of Section 21. Would you agree with me that

- 2 those look like very productive wells?
- 3 A. They are productive wells.
- Q. Would it be -- have you run the numbers and are
- 5 those wells producing at a more efficient rate than the
- 6 one-mile laterals in the vicinity?
- 7 A. Those wells are drilled in the 2nd Bone Spring
- 8 Sand, and we're talking about the 3rd Bone Spring Sand.
- 9 But, again, they're economic -- they appear to be
- 10 productive wells. I don't think I can speak for whether
- 11 economically they would be a better target or not than
- 12 the mile laterals.
- Q. Okay. That's all the questions I have.
- 14 EXAMINER GOETZE: Thank you.
- Do you wish to redirect?
- MR. BRUCE: No, I don't.
- 17 EXAMINER GOETZE: Okay.
- 18 Mr. Wade?
- 19 EXAMINER WADE: No questions.
- 20 EXAMINER GOETZE: Mr. Jones?
- 21 CROSS-EXAMINATION
- 22 BY EXAMINER JONES:
- Q. Okay. I like your -- on Exhibit 17, your
- 24 location synopsis is very nice. It gives me ideas for
- 25 what we should be doing.

Going back to these mile-and-a-half

- 2 laterals in Sections 16 and 21, those are COG wells in
- 3 the 2nd Bone Spring?
- 4 A. Yes, sir.
- 5 Q. And so to compare, you would almost need to
- 6 take the -- prepare for production on -- at least, I
- 7 guess, on a footage basis almost, wouldn't you? I mean,
- 8 because you're looking at -- you're comparing 2nd Bone
- 9 Spring and 3rd Bone Spring. You're comparing mile wells
- 10 to mile-and-a-half wells. I mean, some way of
- 11 comparison more like an apple to an apple.
- 12 A. Yeah, because they're different reservoirs.
- 13 They're not 100 percent the same. They are both Bone
- 14 Spring intervals, but it is the 2nd Bone Spring versus
- 15 the 3rd Bone Spring.
- 16 Q. Have you talked to COG about why they're
- 17 targeting the 2nd versus --
- 18 A. Those were just the initial wells that they
- 19 drilled out here. I believe they drilled those back in
- 20 2013 and 2014. They've since then ultimately drilled in
- 21 the 3rd Bone Spring Sand in this area. So if you look
- 22 on Exhibit 14, you can see there's -- there's more 2nd
- 23 Bone Spring Sand further to the west. I don't have an
- 24 isopach map of the 2nd Bone Spring Sand with me, but it
- 25 pinches out as you move towards the east. And so --

- 1 Q. It pinches out?
- 2 A. Yeah. Where we sit regionally, if you were to
- 3 go three or four more miles to the east, you could lose
- 4 pretty much all of your Bone Spring Sand. You're kind
- 5 of right up -- I mean, it's not the best platform, but
- 6 it's a dry [sic] run right through here, and so you're
- 7 kind of right on the edge of where all the Bone Spring
- 8 Sand is being deposited.
- 9 Q. Okay. So it's not a question of porosity
- 10 changing. It's the sand itself is not there?
- 11 A. Correct. Yeah. Like for this map, it's pretty
- 12 consistent across here? But, again, if you -- if you
- 13 were to look at the gross interval on the 3rd Bone
- 14 Spring Sand, if you went three or four miles to the
- 15 east, it would change pretty significantly.
- 16 Q. And you're targeting the lower part of the 3rd
- 17 Bone Spring. Is there a reason for that?
- 18 A. We've -- if you look at some of those
- 19 porosities, it seems like there is better porosity
- 20 development in the middle to lower part of the 3rd Bone
- 21 Spring -- Bone Spring interval. And then we've also --
- 22 we've also done some microseismic, not in this area, but
- 23 in Bone Spring wells in other areas. We've seen a
- 24 majority of our frac cost goes upwards. We typically
- 25 tend to land lower assuming that the majority of the

- 1 frac is going upwards.
- Q. Okay. But still when you drill them, you're
- 3 mud-logging them, and you've got a directional tool, and
- 4 you've got a gamma ray; is that right?
- 5 A. Yes, sir.
- 6 O. And that's it?
- 7 A. That's it.
- 8 Q. Thanks a lot.
- 9 CROSS-EXAMINATION
- 10 BY EXAMINER GOETZE:
- 11 Q. I just have one question. Has there been any
- 12 interest of Mewbourne in Wolfcamp in this area?
- 13 A. We are certainly aware of it. You can see,
- 14 based off of Exhibit 14, that there have been no
- 15 Wolfcamp wells drilled in this immediate area. You
- 16 know, we've identified that it does potentially look
- 17 good, so I think somewhere down the road, we definitely
- 18 are interested in the Wolfcamp, will make plans for the
- 19 Wolfcamp. Currently, the majority of people are
- 20 targeting the Bone Spring right now in this particular
- 21 area. So it's --
- 22 Q. So the Bone Spring is the driver in this area?
- 23 A. Right. But the Wolfcamp has potential in the
- 24 future, I would say.
- 25 **Q.** Okay.

1 EXAMINER GOETZE: I have no more questions

- 2 for this witness.
- MR. BRUCE: Could I ask one follow-up
- 4 question?
- 5 EXAMINER GOETZE: Okay.
- 6 REDIRECT EXAMINATION
- 7 BY MR. BRUCE:
- 8 Q. Looking at your Exhibit 17, Mr. Cless, when
- 9 you're looking at the COG Gettysburg wells, when you
- 10 look down at the bottom at the Mewbourne Mad Dog wells,
- 11 which were drilled a little later, considering they were
- drilled later and they're one-mile laterals, the
- 13 production is fairly equivalent, isn't it?
- 14 A. Yes, I would say so. I mean, if you look at
- the second-to-the-last well on there, Mad Dog 26 B3NC,
- 16 that well was drilled in the middle to late part of
- 17 2014, similar timing to when a lot of the Concho wells
- 18 were drilled. Again, you're comparing 2nd Sand to 3rd
- 19 Sand, but all of our wells have been mile laterals, so
- 20 you can see that we've had very good production simply
- 21 out of our one-mile laterals.
- 22 Q. That's all I have.
- 23 EXAMINER GOETZE: Thank you.
- MR. McMILLAN: May I have follow-up
- 25 questions?

1 EXAMINER GOETZE: Someday we have to draw

- 2 the end. I'll give you one comment and question.
- 3 MR. McMILLAN: Many thanks, Mr. Examiner.
- 4 RECROSS EXAMINATION
- 5 BY MR. McMILLAN:
- 6 Q. You testified to areas to the west of our
- 7 subject lands here that don't have Bone Spring?
- 8 A. I don't -- I don't believe I understand what
- 9 you're --
- 10 O. Not too much?
- I believe it was your testimony --
- 12 A. To the east.
- Q. It was to the east? To the east. Okay.
- 14 Are you privy to the details of the
- proposed land swap between Black Mountain and Mewbourne
- 16 here?
- 17 A. I knew that there was some negotiations, but
- 18 that's about as far as I knew.
- 19 Q. Okay. Are you aware that the lands that you're
- describing to the east that don't have Bone Spring, that
- 21 those are the lands that Mewbourne proposed trading to
- 22 Black Mountain in exchange for their acreage in Section
- 23 **15?**
- 24 A. I believe the lands we proposed to trade do
- 25 have Bone Spring rights. I believe they were in Section

1 12 that we proposed trading. And you can see that there

- 2 are Bone Spring wells that have been drilled directly to
- 3 the north in Section 1, as well as Section 13.
- 4 Q. And with respect to comparing the new -- the
- 5 newer Mewbourne wells in the south half of Section 21
- 6 with the older COG wells, given the difference in timing
- as to when these wells were drilled, isn't it true that
- 8 the completion style would have been very different?
- 9 A. I believe you have the wrong section there.
- 10 Section 21 is where we drilled our east-west well.
- 11 Q. Right. Okay.
- 12 A. But if you're --
- 13 Q. I'm sorry. I was referencing the Mad Dog
- 14 wells.
- 15 A. The Mad Dog wells in Section 26. Again, for
- 16 example, if you look at the last two wells on there,
- 17 they were both drilled in 2014, and a lot of Concho's
- 18 wells were drilled in -- two of the -- two of the -- two
- 19 of the three Concho wells were also drilled in 2014.
- 20 One was also drilled in 2013, and one was drilled in the
- 21 middle of 2015. Those are all very similar, not like
- 22 2014 to the present day. I think that would -- the
- 23 completion styles were similar.
- Q. You think that technology hasn't changed that
- 25 much since 2014?

1 A. Again, two of their wells were drilled in 2014,

- 2 and ours were also drilled in 2014. I believe they
- 3 would have been the same.
- Q. That's all I have.
- 5 EXAMINER GOETZE: We have to stop
- 6 somewhere. Thank you. We're done with this witness.
- 7 Next witness, please.
- 8 TRAVIS CUDE,
- 9 after having been previously sworn under oath, was
- 10 questioned and testified as follows:
- 11 DIRECT EXAMINATION
- 12 BY MR. BRUCE:
- 13 Q. Would you please state your name and city of
- 14 residence for the record?
- 15 A. Travis Cude, Midland, Texas.
- 16 Q. And who do you work for and in what capacity?
- 17 A. Mewbourne Oil Company, reservoir engineer.
- 18 Q. Have you previously testified before the
- 19 Division?
- 20 A. I have.
- Q. And were your credentials as an expert
- reservoir engineer accepted as a matter of record?
- 23 A. They were.
- Q. And are you familiar with the engineering
- 25 matters related to these applications?

- 1 A. I am.
- 2 MR. BRUCE: Mr. Examiner, I tender Mr. Cude
- 3 as an expert reservoir engineer.
- 4 EXAMINER GOETZE: Mr. McMillan?
- 5 MR. McMILLAN: No objection.
- 6 EXAMINER GOETZE: So qualified.
- 7 Proceed.
- Q. (BY MR. BRUCE) First of all, could you identify
- 9 Exhibit 21 and discuss it for the Examiners?
- 10 A. Exhibit 21 is just a graph showing the number
- 11 of horizontal wells drilled in Township 23 South, Range
- 12 34 East, Lea County, New Mexico. As of January 1st,
- 13 2017, based on the data from the OCD's Web site, there
- 14 were 45 total horizontal wells drilled. Mewbourne is
- 15 the leading operator in the township with 14 wells
- 16 drilled, followed by Endurance.
- 17 Q. This brings up something I meant to ask before,
- 18 Mr. Cude. On an average basis at this point, how many
- 19 drilling rigs does Mewbourne have going in southeast
- 20 New Mexico?
- 21 A. Mewbourne's currently operating six rigs in the
- 22 Delaware Basin. There are a couple of rigs that bounce
- 23 back and forth between Loving and Winkler County in
- New Mexico, but in this general area, we currently
- 25 operate six.

1 Q. So if Mewbourne's applications were granted,

- 2 Mewbourne relatively quickly down the line would have
- 3 the ability to drill these wells?
- A. Yes, sir. We'd be prepared to drill the wells.
- 5 Q. Mr. Cude, did you examine the AFEs that were
- 6 sent to Mewbourne by Black Mountain?
- 7 A. Yes, sir.
- Q. And are you familiar with well costs of
- 9 Mewbourne wells drilled in this area?
- 10 A. I am.
- 11 Q. What is Exhibit 22?
- 12 A. Exhibit 22 is just a comparison of the AFEs
- 13 provided by Black Mountain and ourselves in these
- 14 competing proposals, Black Mountain's as a
- 15 mile-and-a-half and our -- our proposal as a one-mile
- 16 lateral. So I've just broken down the drilling costs
- 17 and completion costs associated with each of these AFEs
- 18 and the facilities cost. So I guess those are your
- 19 first six columns there and then just the total AFE
- 20 number.
- 21 And so what we did was essentially said,
- 22 Okay -- I think as Mr. Mitchell testified earlier,
- 23 really the only benefit to an operator for drilling
- 24 extended laterals would be that you have a reduction in
- 25 well cost, essentially, per foot so that your well

1 that's a mile and a half is more economic on a per-foot

- 2 basis than a well that's a one-mile lateral.
- 3 So what we've shown here is that even if
- 4 you multiplied Mewbourne's AFE cost times 1.5, there is
- 5 still essentially a \$900,000 difference between our 1.5
- 6 mile lateral, it seems, and Black Mountain's 1.5-mile
- 7 lateral.
- 8 O. The benefit is toward Mewbourne; is it not?
- 9 A. That's correct.
- 10 Q. Now, you also looked at the newer AFEs that
- 11 Black Mountain sent to Mewbourne, didn't you?
- 12 A. Yes, sir, I did.
- 13 Q. And what -- how did they go from 8.2 million to
- 7.2 million in a month on these AFEs?
- 15 A. It appeared to us, essentially, that the
- 16 completion costs had been decreased and that the
- 17 contingencies on the AFE were removed.
- Q. Would you, as a petroleum engineer, recommend
- 19 removing contingencies from drilling wells in this area?
- 20 A. I would not, not in this area, especially
- 21 without any experience drilling wells in this area.
- 22 Q. So in your opinion, would the cost of Black
- 23 Mountain's wells be more like -- would they more likely
- 24 be 8.2 million rather than 7.2 million?
- 25 A. That was their original AFE, so I would believe

- 1 so, yes.
- Q. And, Mr. Cude, what is Exhibit 23?
- 3 A. Exhibit 23 is a letter from BTA stating that
- 4 they own oil and gas interests in Section 3, Township 23
- 5 South, 34 East and that they plan to develop that
- 6 section by drilling one-mile horizontal wells and have
- 7 no plans to drill into the north half of Section 10.
- Q. BTA has been around quite a while?
- 9 A. Yes, sir.
- 10 Q. And they've drilled a substantial number of
- 11 wells; have they not?
- 12 A. They have, and they are currently -- they're
- 13 actively drilling.
- Q. Were Exhibits 21 and 22 prepared by you?
- 15 A. Yes, sir.
- Q. And was Exhibit 23 compiled from company
- 17 business records?
- 18 A. Yes, sir.
- 19 Q. In your opinion, is the granting of Mewbourne's
- 20 applications and the denial of Black Mountain's
- 21 applications in the interest of conservation and the
- 22 prevention of waste?
- 23 A. It is.
- MR. BRUCE: Mr. Examiner, I'd move the
- 25 admission of Mewbourne Exhibits 21 through 23.

- 1 EXAMINER GOETZE: Mr. McMillan.
- 2 MR. McMILLAN: Black Mountain would object
- 3 to the admission of Exhibit 23. Exhibit 23 is
- 4 essentially hearsay. It's also -- none of the
- 5 information here is anything but speculative. Finally,
- 6 Section 3 here is irrelevant to our matter here today.
- 7 MR. BRUCE: I would discount the fact that
- 8 it's irrelevant, and it is addressed to Mr. Cude, and
- 9 it's a company business record.
- 10 EXAMINER GOETZE: In light of its
- 11 relevancy, we will take it into exhibit [sic] based upon
- 12 it is merely a statement of intent and it is not a
- 13 drilling plan and it is not an APD, and it is just a
- 14 letter stating a policy at this time. So I'll overrule
- 15 and include Exhibit 23.
- 16 Exhibits 21, 22 and 23 are so entered.
- 17 (Mewbourne Oil Company Exhibit Numbers 21,
- 18 22 and 23 are offered and admitted into
- 19 evidence.)
- 20 EXAMINER GOETZE: Your witness.
- 21 CROSS-EXAMINATION
- 22 BY MR. McMILLAN:
- Q. Mr. Cude, looking at Exhibit 22, I believe you
- 24 already testified that you used the numbers from the
- 25 first AFE received from Black Mountain; is that correct?

- 1 A. That is correct.
- 2 Q. In your calculation -- and you also testified
- 3 you reviewed the most recent AFE?
- 4 A. Yes, sir, I have.
- 5 Q. Ultimately, do the numbers shown on the most
- 6 recent AFEs actually come in at or below the calculated
- 7 costs times 1.5?
- 8 A. If you remove the contingencies, they do.
- 9 Q. Can we take a look at Exhibit -- let's look at
- 10 Exhibit 4. This was Mewbourne's AFE. This is for the
- 11 Fed Com 1H. Do you have that in front of you by any
- 12 chance?
- 13 A. Which one did you say?
- 14 O. Exhibit 4?
- 15 A. Which well?
- 16 Q. Oh, you know what? There is an Exhibit 4 for
- 17 each. Correct.
- 18 EXAMINER GOETZE: Correct. So it would be
- 19 Case Number 15600. That would be for the 1H?
- MR. McMILLAN: Yes. Thank you.
- 21 THE WITNESS: I think they're all the 1H.
- 22 You said for the AP?
- Q. (BY MR. McMILLAN) Yeah, your AFE.
- 24 A. For the AP?
- 25 Q. For the Pronghorn 15 B3AP Fed Com #1H. Same

- 1 page?
- 2 A. Yes.
- 3 Q. Can you point out for the benefit -- where the
- 4 contingencies are located on this document?
- 5 A. The contingencies are located at the bottom of
- 6 the total for the intangible costs. That's Code Number
- 7 0180-0199.
- 8 Q. Do you believe that these amounts --
- 9 Well, first of all, are these amounts, to
- 10 your knowledge, in line with the contingencies proposed
- in AFEs for similar wells in the area?
- 12 A. They are.
- 13 Q. So it's your testimony that those are
- 14 appropriate contingencies?
- 15 A. At the time this AFE was prepared, yes.
- 16 Q. Okay. As you sit here today, do they appear to
- 17 be appropriate?
- 18 A. I believe we've adjusted some of the
- 19 contingencies on the completion side, but still, yes.
- Q. When you say adjusted them, have you adjusted
- 21 them upwards?
- 22 A. As upward pressure on pricing has occurred,
- 23 yes, they've adjusted upwards.
- Q. Do you have a more current AFE that we can look
- 25 at to compare to what your estimated contingencies are

- 1 now?
- 2 A. I do not.
- Q. Do you have, off the top of your head, what
- your estimated contingencies are on the completion side?
- 5 A. I do not.
- 6 Q. Fair to say that an AFE is really an estimate
- of costs as opposed to a final invoice, so to speak? Is
- 8 an AFE an estimate or a final number?
- 9 A. I believe it is an estimate. I do know if we
- 10 removed the contingencies from our AFE, the AFE times
- 1.5 would be less than Black Mountain's revised AFE.
- 12 Q. Have you run those numbers?
- 13 A. Yes. I have those.
- Q. Do you have those numbers here today in an
- 15 exhibit?
- 16 MR. BRUCE: If I may, Mr. Examiner?
- 17 Handing you what's been marked as Mewbourne
- 18 Exhibit 24.
- Mr. Cude, could you reply to Mr. McMillan's
- 20 question?
- 21 THE WITNESS: So, again, here I -- this is
- 22 essentially the same comparison. And I have taken Black
- 23 Mountain's new AFEs and that's the -- essentially the
- 24 total there. Highlighted are the contingencies in the
- 25 AFE, so those are built into the total cost. So if I

- 1 back out the contingencies for our AFE and multiply that
- 2 number times 1.5, I think it still shows that
- 3 Mewbourne's 1.5 times AFE would be 275- to \$300,000 less
- 4 than Black Mountain's.
- 5 Q. (BY MR. McMILLAN) I see. So you've removed the
- 6 contingencies from --
- Boy, it would have been helpful if this
- 8 exhibit had come out on direct.
- 9 You removed the contingencies from the
- 10 AFE -- from your AFE, you left our numbers intact, and
- 11 you still come up with a 1.5 multiplier, and it's within
- 12 **\$300,000**, correct?
- 13 A. Yes. I'm just trying to compare apples to
- 14 apples in this exhibit.
- 15 Q. Okay. Except isn't it fair to say -- why
- 16 aren't -- okay. That's enough of this, I think.
- 17 Remind me, sir, what the -- what the
- 18 setbacks are in this area.
- 19 A. Statewide rules, 330s.
- 20 Q. So in your proposed wells, is your last take
- 21 point about 330 feet from the unit boundary?
- 22 A. Yes, sir.
- Q. Would it be safe to say that in a north-south
- 24 configuration, one-mile laterals drilled in the section
- 25 to the south would also have to adhere to the 330-foot

- 1 setback?
- 2 A. In the south end?
- 3 Q. In the section to the south.
- 4 A. In Section 22?
- 5 Q. Where are your take points on your wells --
- 6 your last take point?
- 7 A. They would be 330 from the south line of
- 8 Section 15.
- 9 Q. Right.
- 10 So if -- if there were north-south one-mile
- 11 laterals in the section to the south -- that's Section
- 12 22 -- wouldn't those also have to adhere to the 330
- 13 setback?
- 14 A. They would.
- 15 Q. Okay. My math isn't great. I went to law
- school to avoid it. But it seems to me that if they're
- 17 there for 330 feet from your last take point to the --
- 18 to the unit boundary, that would be another 330 feet
- 19 from either the take point or the surface-hole location
- 20 to the south. Isn't that going to produce 660 feet of
- 21 undrained reservoir in this area if you're doing just a
- 22 one-mile lateral?
- 23 A. I don't know that you can say the reservoir
- 24 area in between is undrained. It's probably not drained
- 25 as efficiently.

1 Q. Have you calculated any -- have you calculated

- 2 those reserves attributable to the lost acreage, just to
- 3 say these 660 feet?
- 4 A. I have not.
- 5 Q. As you sit here now, is it safe to say there
- 6 would be some reserves attributable to lost acreage
- 7 there?
- 8 A. There would.
- 9 Q. Looking again at your AFE, sir, I'm curious how
- 10 you intend to complete the well at such low costs. What
- 11 kind of things are you doing to drill wells in the
- 12 neighborhood of \$5 million?
- 13 A. Our standard practices that we use throughout
- 14 New Mexico.
- 15 Q. Okay. Specifically, how many pounds of
- 16 proppant do you intend to use per lateral foot?
- 17 A. I believe on this AFE, there is approximately
- 18 1,650 pounds per lateral foot.
- 19 Q. Do you think that's an appropriate amount for
- 20 the project here?
- 21 A. Based on the production table that our
- 22 geologist presented, I believe it is.
- 23 Q. What -- specifically what cluster spacing do
- 24 you plan on using?
- 25 A. I believe this is set up for approximately

- 1 20-foot cluster spacing.
- 2 Q. Specifically what stage spacing do you intend
- 3 to use?
- 4 A. 185 feet -- 185 to 200 feet.
- 5 Q. And is this information on the AFE in front of
- 6 you? Is that where you're getting this?
- 7 A. No.
- 8 O. No?
- 9 Can you tell me where you're getting this
- 10 information?
- 11 A. I designed the completion jobs on nearly all of
- 12 Mewbourne's horizontal wells in the Permian Basin, so I
- 13 know it off the top of my head.
- Q. Okay. And finally, specifically, what fluid
- system will you be using in the completed well?
- 16 A. We use a slick-water system.
- Q. And is there anything about the slick-water
- 18 system that allows you to drill and complete the well at
- 19 a lower cost?
- A. As opposed to?
- 21 Q. I don't know.
- 22 A. I mean, I think slick water is somewhat the
- 23 standard issue being used by operators right now, and it
- 24 is lower cost than the equivalent gel system. You know,
- 25 the equivalent volumes, it would be lower cost than

1 running costs on -- or something of that nature.

- 2 Q. But there are other available options with
- 3 respect to the fluid system?
- A. There are.
- 5 Q. Okay. Just one last question. Are you
- 6 certain, looking at the numbers in your AFE, you really
- 7 can complete the well for the costs -- for the price
- 8 stated in your AFE even in the current pricing
- 9 environment?
- 10 A. In the current price environment, I am. That's
- 11 not to say that once the wells are drilled, that won't
- 12 change, but this is an estimate.
- 13 Q. Did you take into account the current pricing
- 14 in developing this AFE?
- 15 A. Pricing changes daily, so when these exhibits
- 16 were prepared, this was the cost.
- Q. And looking at the AFE in front of us, Exhibit
- 18 4, it looks like this AFE was prepared in August of
- 19 2016. Isn't it true that -- well, is that correct?
- 20 A. That is correct.
- 21 Q. Okay. Isn't it true that the pricing
- 22 environment was pretty much at a low point in August of
- 23 2016?
- 24 A. It depends on who you were using, what -- I
- 25 mean, it was lower than it had been before, yes.

- 1 O. Has it recovered since then?
- A. As I mentioned before, yes, there are upward
- 3 pressures on pricing.
- 4 Q. Mercifully, I'm through. Thanks.
- 5 EXAMINER GOETZE: All right. Good.
- 6 MR. BRUCE: Couple of follow-up?
- 7 EXAMINER GOETZE: And you have an exhibit.
- 8 MR. BRUCE: Ah.
- 9 REDIRECT EXAMINATION
- 10 BY MR. BRUCE:
- Q. Was Exhibit 24 prepared by you, Mr. Cude?
- 12 A. It was.
- MR. BRUCE: I'd move the admission of
- 14 Exhibit 24.
- 15 EXAMINER GOETZE: You asked for it, so you
- 16 got it.
- MR. McMILLAN: I know.
- 18 EXAMINER GOETZE: Exhibit 24 is so entered.
- 19 (Mewbourne Oil Company Exhibit Number 24 is
- 20 offered and admitted into evidence.)
- Q. (BY MR. BRUCE) Mr. Cude, let's talk about the
- 22 current pricing environment that Mr. McMillan was asking
- you about. If you took Black Mountain's December 2016
- 24 AFE and their January 2017 AFE, did they reduce the
- 25 completion costs?

1 A. Yes, sir. It does appear the completion cost

- 2 was reduced. And as far as the fluid costs associated
- 3 with the AFE and the completion stages on the AFE, those
- 4 did not change. So unless their completion design
- 5 changed over that time period, I don't see where the
- 6 cost decreased.
- 7 Q. And you were also asked a question about, you
- 8 know, the ending of one well or the beginning of
- 9 another, and you testified that there would be some
- 10 incremental recovery from one-and-a-half mile
- 11 reserves -- one-and-a-half miles laterals; is that
- 12 correct?
- 13 A. That is correct. There is incremental access
- 14 to the reservoir. Yes.
- 15 Q. But you have to compare that with the cost of
- 16 the well to drill?
- 17 A. That's correct.
- 18 Q. And before drilling, will the well -- would
- 19 Mewbourne prepare a current AFE and provide that to the
- 20 working interest partners in the well?
- 21 A. If necessary, yes.
- 22 Q. And then this one question on Exhibit 24, just
- 23 to clarify, when you're looking at the third column from
- 24 the right, just take the top two lines, the 7.2 million
- 25 is the cost proposed by Black Mountain in January of

- 1 this year?
- 2 A. That's correct.
- 3 Q. The second line, the 4.9 million, is what is in
- 4 Mewbourne's AFE, and you are subtracting the
- 5 contingencies in Mewbourne's AFE so you are comparing
- 6 apples and apples, correct?
- 7 A. That's correct.
- 8 Q. But you're not going to remove contingencies
- 9 from your AFEs?
- 10 A. We would not do that.
- 11 Q. Thank you.
- MR. BRUCE: I have no questions,
- 13 Mr. Examiner.
- 14 EXAMINER GOETZE: Thank you.
- 15 EXAMINER WADE: I have no questions.
- 16 EXAMINER GOETZE: Mr. Jones?
- 17 CROSS-EXAMINATION
- 18 BY EXAMINER JONES:
- 19 Q. So the casing design for your well -- but are
- you setting the intermediate at the top of the Delaware
- 21 and drilling out?
- 22 A. Yes, sir. That's how the AFEs were --
- Q. Is that pretty consistent with other operators
- 24 out here?
- 25 A. It varies. Some people also tend to set their

- 1 intermediate string at the top of the Bone -- in the
- 2 landing zone. So, say, in the proposal, it would be the
- 3 3rd Bone Spring. We have drilled wells both -- both
- 4 ways.
- 5 Q. Okay. So I noticed one of the operators in
- 6 your chart is Concho, has drilled some Delaware wells.
- 7 So is that -- do you know what target they're going for
- 8 in the Delaware?
- 9 A. I believe it is the Lower Brushy Canyon.
- 10 Q. It's the Brushy -- Lower Brushy, like above the
- 11 Avalon?
- 12 A. Yes.
- Q. Okay. And their -- and you think you're
- 14 protecting their reserves well enough with your well
- design in any of the Barstow [sic] above the Delaware?
- 16 A. Yes, sir. And there are multiple casing
- 17 designs such as this in the areas with active Delaware
- 18 production.
- 19 Q. What about your gas? What do you do with the
- 20 gas out here? Are you able to sell it immediately when
- 21 you get your wells completed?
- 22 A. We typically try to have our gas take-away
- 23 lined up at our surface facilities before the well is
- 24 completed. Sometimes it's more difficult than others,
- 25 but, you know, nine times out of ten, yes, we do.

1 Q. Okay. Now, your well you drilled in the west

- 2 half-west half, where is the surface location of that
- 3 well? Is that in Unit Letter D or Unit Letter M?
- 4 A. It's in Unit Letter D.
- 5 **Q. D.**
- 6 So are you not trying to be consistent with
- 7 your surface facilities out here by locating your
- 8 surface locations for these proposed wells in the -- in
- 9 the north half of this section?
- 10 A. We are. Like we mentioned before, we also
- 11 operate Section 9, and we drilled multiple wells in that
- 12 section. I believe we have three producers right now.
- 13 But in the southwest quarter of the southeast quarter is
- 14 Unit Letter P. We have a production facility there, and
- 15 so have gas take-away there. So this would just -- this
- 16 well right here is a short extension from that. We also
- 17 have disposal gathering in place here.
- 18 Q. So if you put your wells as prepared -- as
- 19 proposed here in the north half of Section 15 and then
- you chose to drill up into Section 10, you could use the
- 21 same consistent surface location; is that correct?
- 22 A. We could. We currently don't have any interest
- 23 in Section 10.
- Q. But it does -- by locating your surface
- locations there, you are limiting yourself to one-mile

- wells; is that correct?
- 2 A. Yes. That's the development we set out for
- 3 this area.
- 4 Q. Okay. Just quickly, your slick-water fracs
- 5 you're fracking down the casing with, how high rates do
- 6 you get with that?
- 7 A. We typically get to 80 barrels a minute.
- 8 Q. Okay. And what's the peak concentration? What
- 9 sand size and concentration are you proposing?
- 10 A. We usually start with 100 mesh. We switch over
- 11 to 40-70, and we typically get to about 2 pounds per
- 12 gallon --
- 13 Q. Up to 20-40?
- 14 A. 40-70.
- 15 **Q.** 40-70.
- So 2 pounds per gallon is your maximum?
- 17 A. Yes.
- 18 Q. You can't reach your pressure limit and stop
- 19 **at --**
- 20 A. We typically don't reach our pressure limit.
- 21 We design our stages for an effective half length. And
- 22 so once we pump the volume that we associate with that,
- 23 we shut down the stage and we flush.
- Q. You've chosen not to go with a gel system -- or
- 25 a crosslink system at least?

1 A. Yes, sir. That's been very consistent in our

- 2 completions over the last couple of years. We've done
- 3 both. Like Nate mentioned, we've completed over 350
- 4 horizontal wells, and we haven't seen much -- really any
- 5 downside to using a slick-water system as opposed to
- 6 gels. And like we mentioned earlier, it is cheaper.
- 7 And so to be a more prudent operator, that's the route
- 8 we take.
- 9 Q. So you're willing to handle all the water that
- 10 you're putting in versus a gel system that might have
- 11 less of water loading in your formation?
- 12 A. Yes.
- Q. And your price of sand -- you know, most of us
- 14 read the paper, and we've noticed that the price of
- sand -- they're projecting it to almost be hard to get
- here pretty soon. Is that what you're looking at, too?
- 17 A. There's very high demand for frac sand right
- 18 now. Yes.
- 19 Q. We hear something like up in North Dakota where
- 20 if they drill the longer wells, they end up with less
- 21 efficiency per foot, efficiency meaning recovery per
- 22 foot, like maybe a reduction of like 20 percent versus
- 23 drilling the shorter, like a one-mile or -- I don't know
- 24 exactly whether they -- what they're comparing, longer
- 25 to shorter, but -- and then we hear people here in

1 New Mexico saying, Well, we're drilling longer and

- longer, you know. So are you seeing a less efficiency
- per foot by drilling longer wells, or is there a -- you
- 4 like to drill the one-mile wells here, so I'm still
- 5 struggling with why.
- 6 A. I think in this area, we like the one-mile
- 7 laterals because we've drilled a lot of them. We have a
- 8 good feel for how to do that. That's what we've done in
- 9 the area and other operators have as well. I think, you
- 10 know, what we see is that -- not that we don't support
- 11 longer laterals. We think there are places to do them,
- 12 but they do add risk both on the drilling side and on
- 13 the completion side, operational risk. And in this
- 14 area, like Nate mentioned, so close to the pinch-out,
- 15 that we haven't gone to extended laterals here.
- I guess based on your earlier statements as
- 17 far as do we see any -- any less efficiency per foot,
- 18 it's a little hard to compare, you know, because over
- 19 the last few years, a lot of completions have changed
- 20 and all of that. But I think, you know, this case right
- 21 here, kind of referencing back to our geologist's
- 22 testimony, it's very difficult to drill east-west in the
- 23 north half of Section 10. And so even if somebody was
- 24 to drill east-west in the north half of Section 10, the
- 25 west half of the southwest quarter would be stranded,

- 1 and I think there is approximately 80 acres.
- 2 And if you look across these three
- 3 proration units that we're discussing today, if you had
- 4 330 setbacks off either sides of that, I think that's
- 5 only approximately 60 acres. So technically, there
- 6 would be more waste drilling the extended laterals and
- 7 ruining -- or messing up the development plan of this
- 8 area rather than just continuing with one-mile laterals.
- 9 Q. What about two-mile wells?
- 10 A. That hasn't been tested out here. I mean, this
- is a very deep area. I think the 3rd Bone Spring is
- 12 around 11,300 feet. It's some of the deepest parts in
- 13 the Basin. It's overpressured. So like I said earlier,
- 14 there are just additional risks. You know, not as much
- 15 in the 2nd Sand, but getting down into the Lower 3rd
- 16 Bone Spring, the Wolfcamp and deeper, there's just
- 17 additional risk with drilling extended laterals.
- 18 Q. Okay. Your chosen surface location looked like
- 19 they preclude drilling of the longer than one-mile wells
- 20 here, and the Feds are not shutting you down on putting
- 21 a location in the south half of this section?
- 22 Obviously, Black Mountain might -- I haven't looked at
- 23 their C-102 yet, but maybe they're proposing wells in
- 24 the south half of Section 15.
- 25 A. I believe their wells are in the south half --

1 north half of the south half of Section 10.

- 2 Q. Okay.
- 3 A. But more -- I mean, the majority of the
- 4 development in this area has been under standard project
- 5 areas, 160s, et cetera.
- 6 Q. Okay. Thank you.
- 7 CROSS-EXAMINATION
- 8 BY EXAMINER GOETZE:
- 9 Q. Just one question: These three wells -- or
- 10 four wells as proposed, are they going to be drilled in
- 11 quick sequence, or are you just going to do one and then
- 12 stand down?
- 13 A. We typically try to work with our other
- 14 interest owners, and they have -- we have other
- 15 commitments, and so, you know, depending on what the
- 16 majority of the interest in the section does. I mean,
- 17 we try to be a flexible company as far as that's
- 18 concerned. We have six rigs, so we have places on our
- 19 drilling schedule for them if need be.
- 20 Q. All right.
- 21 EXAMINER GOETZE: No further questions for
- 22 this witness.
- Mr. Bruce, are you done?
- MR. BRUCE: Yup.
- 25 EXAMINER GOETZE: Let's give Mr. McMillan a

- 1 chance.
- 2 MR. McMILLAN: I think I'm done.
- 3 EXAMINER GOETZE: You don't get questions.
- 4 It's your time to give your case.
- 5 MR. McMILLAN: Oh, good. May I approach?
- 6 I've got exhibits for everyone.
- 7 EXAMINER GOETZE: Please.
- 8 MR. McMILLAN: Our first witness today is
- 9 Robbie Zimmerman.
- 10 ROBERT "ROBBIE" ZIMMERMAN,
- after having been previously sworn under oath, was
- 12 questioned and testified as follows:
- 13 DIRECT EXAMINATION
- 14 BY MR. McMILLAN:
- Q. Mr. Zimmerman, please state your full name and
- 16 place of residence.
- 17 A. Robert Zimmerman, residing in Fort Worth,
- 18 Texas.
- 19 Q. By whom are you employed and in what capacity?
- 20 A. I'm a senior landman with Black Mountain
- 21 Operating, LLC.
- 22 Q. Are you authorized to testify today on Black
- 23 Mountain's behalf?
- 24 A. Yes.
- 25 Q. Have you previously testified before the

- 1 Division or one of its examiners and had your
- 2 credentials accepted and made a matter of record?
- 3 A. No, sir, I have not.
- Q. Can you please provide us with a brief summary
- 5 of your educational background and work experience?
- A. I received a bachelor's degree in energy
- 7 commerce from Texas Tech University in 2011.
- 8 Thereafter, I took a position as a landman
- 9 at XTO in Fort Worth, Texas. I worked the Appalachian
- 10 and Delaware Basins for XTO in my five years of
- 11 employment with the company.
- 12 While at XTO, I received my MBA from Texas
- 13 Christian University, completing my degree in 2015. I
- 14 obtained my certification of Certified Petroleum Landman
- in November of 2016 and left XTO in December of 2016 to
- 16 go to work with Black Mountain.
- 17 Q. Just to clarify, when again did you obtain your
- 18 certification as a Certified Petroleum Landman?
- 19 A. November 2016.
- 20 **Q. 2016?**
- 21 A. Yes.
- Q. Are you familiar with the applications filed in
- 23 these cases?
- 24 A. Yes.
- Q. Are you familiar with the land matters in this

- 1 case?
- 2 A. Yes.
- 3 MR. McMILLAN: Mr. Examiner, I would tender
- 4 Mr. Zimmerman as an expert witness.
- 5 MR. BRUCE: No objection.
- 6 EXAMINER GOETZE: Expert landman or --
- 7 MR. McMILLAN: Expert landman indeed.
- 8 EXAMINER GOETZE: Thank you.
- 9 Mr. Bruce?
- MR. BRUCE: No objection.
- 11 EXAMINER GOETZE: Very good. He's so
- 12 qualified.
- 13 Q. (BY MR. McMILLAN) Would you briefly state for
- 14 all of us what Black Mountain seeks by the three
- 15 applications that were filed?
- 16 A. In Case Number 15628, Black Mountain seeks an
- order approving a nonstandard oil spacing and proration
- 18 unit in the Bone Spring Formation comprised of the east
- 19 half-west half of Section 15 and the east half-southwest
- 20 quarter of Section 10, Township 23, Range 34 East in Lea
- 21 County, New Mexico.
- In Case Number 15629, Black Mountain seeks
- 23 an order approving a nonstandard oil spacing and
- 24 proration unit for the Bone Spring Formation comprising
- 25 of the west half-east half of Section 15 and the west

1 half of the southeast quarter of Section 10, Township 23

- 2 South, Range 34 East in Lea County, New Mexico.
- In Case Number 15630, Black Mountain seeks
- 4 an order approving a nonstandard oil spacing and
- 5 proration unit in the Bone Spring Formation comprised of
- 6 the east half-east half of Section 16 and the east
- 7 half-southeast quarter of Section 10, Township 23 South,
- 8 Range 34 East in Lea County, New Mexico.
- 9 Q. Have you prepared certain exhibits for
- 10 introduction in this case?
- 11 A. Yes, sir.
- 12 O. Let's take a look at those exhibits. Is
- 13 Exhibit 1 a land plat showing each of the three units
- 14 under discussion today?
- 15 A. Yes, sir, it is.
- 16 Q. Are the surface- and bottom-hole locations
- 17 shown in schematic form here?
- 18 A. Yes, sir.
- 19 Q. Are the actual surface- and bottom-hole
- 20 locations -- the actual take points, are they set forth
- 21 in the applications filed in this case --
- 22 A. Yes, sir.
- 23 Q. -- in these cases, rather.
- What are the setbacks for oil pools -- oil
- 25 wells in this pool?

1 A. The setbacks are 330 feet from the leaseline.

- 2 Q. So are these orthodox well locations?
- 3 A. Yes, sir.
- Q. What are the names of the wells being proposed?
- A. In Case Number 15628, Black Mountain proposes
- 6 the Duke Federal 10 10H. In Case Number 15629, we're
- 7 proposing the Duke Federal 10 18H. In Case Number
- 8 15630, we're proposing the Duke Federal 10 26H.
- 9 Q. Can you tell me what the primary objective is
- 10 for these wells?
- 11 A. In all three cases, the primary objective is to
- 12 drill to a depth sufficient to test the Bone Spring
- 13 Formation and complete the well with a 7,500-foot
- 14 lateral.
- 15 Q. Are 240-acre project areas established in the
- 16 Bone Spring pool in this area?
- 17 A. Yes.
- 18 Q. And is the standard proration unit for the West
- 19 Antelope Bone Spring pool here a 40-acre unit?
- 20 A. Yes, it is. That's why we are requesting two
- 21 40s.
- 22 Q. Are you aware of other 240-acre project areas
- 23 in the vicinity?
- 24 A. Yes.
- 25 Q. This wouldn't be the only one in the

- 1 neighborhood?
- 2 A. No.
- 3 Q. These wouldn't be the only three in the
- 4 neighborhood, rather?
- 5 Does Black Mountain own the right to drill
- 6 in each tract that will be traversed by the wellbores?
- 7 A. No, we do not. Black Mountain has leases under
- 8 the southeast quarter and northwest quarter of Section
- 9 15 and the southeast quarter in the north half of the
- 10 southwest quarter of Section 10.
- 11 Q. Let's go ahead and look at ownership. Is
- 12 Exhibit 2 an ownership breakdown or this acreage?
- 13 A. Yes. This is a copy of the Exhibit A we sent
- 14 out with our well proposals, Exhibit A to the JOA.
- 15 Q. About how many net acres does Black Mountain
- 16 own in Section 15?
- 17 A. Black Mountain owns 160 net acres in Section
- 18 15.
- 19 Q. And how many acres does Black Mountain own in
- 20 **Section 10?**
- 21 A. 55.18.
- 22 O. When did Black Mountain first commence its
- 23 geologic evaluation of this area?
- A. Around November 2015.
- 25 Q. And what experience does Black Mountain have in

1 drilling and operating these types of horizontal oil

- 2 wells?
- 3 A. Although we're a new entrant to southeast
- 4 New Mexico and in the process of drilling our first
- 5 horizontal well, the employees have been well versed in
- 6 horizontal development throughout their careers, and our
- 7 CO, Dr. McCracken, will also testify as a specific
- 8 example of this, our of employees.
- 9 Q. I note a north-south orientation of each of
- 10 these units and wellbores; is that correct?
- 11 A. Yes.
- 12 Q. Is that consistent with the development pattern
- 13 in this area?
- 14 A. Yes, all offsetting the same north-to-south
- development pattern, which is the preferred orientation
- 16 of operators in the area.
- 17 Q. Okay. Let's take a look at your Exhibit 3
- 18 here. Are these two alternative area development plats
- 19 that we're looking at here?
- 20 A. Yes.
- Q. Can you tell us what these two images are
- 22 telling us?
- 23 A. The plat on the left shows the three 7,500-foot
- 24 laterals that Black Mountain is proposing in today's
- 25 cases. They're shown by the purple sticks. And as you

1 can see, Sections 3 and 10 could possibly be developed

- 2 with one- to two-mile laterals in the west half-west
- 3 half and three 7,500-foot laterals filling in the
- 4 section from the west.
- 5 And the exhibit to the right shows the
- 6 proposed trade -- what the development plan would look
- 7 like with the proposed trade between Black Mountain and
- 8 Mewbourne, where there would be two 7,500-foot laterals
- 9 in the east half of Section 15 and the southeast quarter
- 10 of Section 10, and one one-mile lateral in the east
- 11 half-west half of Section 15.
- 12 Q. And that, of course, is the trade that was
- 13 rejected by Mewbourne?
- 14 A. Yes, sir.
- 15 Q. Your two images here show, again, longer
- 16 laterals. Is it your sense that that's the trend in the
- industry in this part of New Mexico?
- 18 A. Yes, sir.
- 19 Q. Let's talk about ways in which the north half
- 20 and west half of the southwest quarter of Section 10 --
- 21 how would this acreage -- what ways could this acreage
- 22 be developed?
- 23 A. I mean, there's -- the examples I just cited
- 24 were just one of many different possibilities that
- 25 acreage could be developed.

1 Q. And those possibilities, as we see, can include

- 2 north-south orientation and long laterals, correct?
- 3 A. Yes, sir.
- 4 Q. Referring back to Exhibit 2 -- this is the
- 5 ownership breakdown -- can you tell us what percentage
- of the acreage in these 240-acre units -- what
- 7 percentage is voluntarily committed to this well?
- 8 A. Just a little over 25 percent.
- 9 Q. And so that's Black Mountain's ownership plus
- 10 how many others?
- 11 A. We've had a couple sign JOAs and a few verbals
- 12 from our working interest partners.
- 13 Q. On the verbals, do you expect to have
- 14 agreements in hand soon enough?
- 15 A. Yes, sir, we do.
- Q. And that's based on conversations, obviously,
- 17 that you've had with these folks?
- 18 A. Yes, sir.
- 19 Q. All right. So are we here today -- is Black
- 20 Mountain here today to ask the Division to pool the
- 21 mineral interests?
- 22 A. Yes, sir.
- Q. And is Black Mountain also seeking the
- 24 imposition of a 200 percent risk penalty against
- 25 unjoined working interests?

- 1 A. Yes, sir.
- 2 Q. Does Black Mountain seek to be the designated
- 3 operator for the wells?
- 4 A. Yes, we do.
- 5 Q. Okay. Let's go ahead and discuss -- in the
- 6 notes in front of you, we're going to jump to my
- 7 Question 27. Can you discuss the efforts that you've
- 8 undertaken as landman for Black Mountain to obtain the
- 9 voluntary participation of the unjoined working interest
- 10 and mineral interest owners on this acreage?
- 11 A. Yes. On January 5th, 2017, a well proposal was
- 12 sent to all working owners for the Duke 10 10H, 18H and
- 13 26H wells. Included in the well proposal was a proposed
- 14 APL 2015 JOA form with necessary exhibits and estimated
- 15 AFEs for each well.
- On February 28th, 2017, after the receipt
- 17 of a more in-depth title report, well proposals were
- 18 sent to newly discovered working interest owners, and an
- 19 amended Exhibit A was sent to the originally thought
- 20 working interest owners as well.
- 21 Q. In your opinion, has Black Mountain made a
- 22 good-faith effort to locate all the mineral interest
- 23 owners and working interest owners and communicate
- 24 them -- communicate with them in order to obtain their
- 25 voluntary participation?

- 1 A. Yes, sir.
- Q. Was title complicated both in Section 15 and
- 3 Section 10?
- A. Yes, sir, just a little bit.
- 5 Q. Just a little bit? Are you saying that with
- 6 tongue in cheek?
- 7 A. Yes, sir.
- 8 Q. So it was indeed complicated?
- 9 A. Yes.
- 10 Q. Do you nonetheless feel that you've ultimately
- 11 identified and communicated with each interest owner of
- 12 record?
- 13 A. Yes, sir.
- Q. Exhibit 4, is this -- are these examples of the
- 15 January 5th letters that you sent with respect to the
- 16 three well proposals?
- 17 A. Yes, sir.
- 18 Q. And since we're only -- we have three pages
- 19 here. Is this one example for each of the three wells?
- 20 A. Yes, sir.
- Q. Would the many letters that you sent to other
- 22 interest owners be available for the Examiners' review
- 23 if they were so interested?
- 24 A. Yes, sir, they would be.
- 25 Q. And I see that these letters under tab four --

1 Exhibit 4 are dated January 5th, 2017, correct?

- 2 A. That's correct.
- 3 Q. The letters sent on February 28th was the --
- 4 was the text of those letters the same as the January
- 5 5th letters?
- 6 A. Identical.
- 7 Q. Identical.
- But those were sent on February 28th
- 9 because newly discovered working interest owners were
- 10 found following receipt of a more in-depth title report?
- 11 A. That's correct.
- 12 Q. Did you have follow-up communications with some
- of the folks that you sent these letters to?
- 14 A. A few of the parties, yes, sir.
- 15 Q. Did those conversations lead to commitments to
- 16 participate?
- 17 A. Yes.
- 18 Q. Some by signature and others by verbal
- 19 commitment?
- 20 A. Yes, sir.
- 21 Q. In these conversations, did any other lease
- 22 owner or any other interest owner indicate that Black
- 23 Mountain's estimated well costs were out of line?
- 24 A. No.
- Q. Let's look at Exhibit 5. Are these the most

- 1 recent AFEs for the three wells?
- 2 A. Yes, sir.
- Q. And tell us again what the approximate total is
- 4 for each completed well?
- 5 A. Approximately \$7.2 million.
- 6 Q. And were these AFE cost estimates updated from
- 7 the time of Black Mountain's original well proposals?
- 8 A. The cost estimates have not changed since we
- 9 sent out the well proposals dated January 5th.
- 10 Q. Is it your understanding that these costs shown
- in the three AFEs in Exhibit 5 are in line with what's
- 12 being charged by other operators in the area for similar
- 13 wells?
- 14 A. Yes, sir.
- 15 Q. And how do you know that?
- 16 A. Just from other JOAs we have received for our
- 17 interest in the area.
- 18 Q. Other than perhaps what we've seen from
- 19 Mewbourne today, do you generally see costs lower than
- 20 what Black Mountain is proposing here for similar wells?
- 21 A. No, sir.
- Q. Have you made an estimate of overhead and
- 23 administrative costs while drilling and producing the
- 24 wells?
- 25 A. Yes, we have.

- 1 Q. And what's the drilling overhead?
- 2 A. \$7,500 per month drilling overhead and \$750 per
- 3 month producing.
- 4 Q. Do you recommend that these drilling and
- 5 producing overhead rates be incorporated into the order
- 6 that results from this hearing?
- 7 A. Yes, sir.
- 8 Q. And does Black Mountain request that the order
- 9 be issued providing for an adjustment of the drilling
- 10 and producing overhead rates in accordance with the
- 11 current COPAS bulletin for the area?
- 12 A. Yes, sir.
- 13 Q. In your opinion, has Black Mountain acted
- 14 diligently to develop these reserves so far?
- 15 A. Yes, we have.
- 16 Q. Has Mewbourne proposed a well unit that's in
- 17 conflict with the units designated by Black Mountain?
- 18 A. Yes, they have.
- 19 Q. Have they, in fact, proposed multiple well
- 20 units that are in conflict with the units designated by
- 21 Black Mountain?
- 22 A. Yes.
- 23 Q. Okay. Is it true that Black Mountain executed
- 24 a JOA covering the west half of the west half of Section
- 25 15 with Mewbourne as the operator?

- 1 A. Yes.
- 2 Q. Okay. And I'm sure the Examiners are curious.
- 3 Why did Black Mountain do that?
- A. Well, at the time Mewbourne's order for forced
- 5 pooling already been granted. Therefore, it didn't sign
- 6 the JOA or our interest would be subject to the 200
- 7 percent nonconsent penalty.
- 8 Q. Okay. Did Black Mountain execute Mewbourne's
- 9 JOA covering the entirety of Section 15?
- 10 A. No, sir.
- 11 Q. Do you recall Black Mountain having been told
- 12 by Mewbourne that Black Mountain was the only working
- interest owner not to sign the JOA on the west half-west
- 14 half of Section 15?
- 15 A. Yes.
- 16 Q. And to your understanding, did that turn out to
- 17 be true?
- 18 A. Apparently not.
- 19 Q. With respect to Black Mountain's proposed
- 20 wells, has Black Mountain sent a JOA to Mewbourne?
- 21 A. Yes.
- 22 Q. And what response did Black Mountain receive?
- 23 A. We did not receive a response.
- Q. In your opinion, would the granting of Black
- 25 Mountain's applications be in the best interest of

1 conservation, the prevention of waste and the protection

- 2 of correlative rights?
- 3 A. Yes.
- 4 Q. Okay. Let's turn quickly to Exhibit 7. Is it
- 5 your understanding that Exhibit 7 is comprised of three
- 6 separate affidavits executed by me certifying,
- 7 essentially, that copies of the application in this
- 8 matter were sent to all the working interest owners and
- 9 the offset operators whose interests may be indicated by
- 10 Black Mountain's applications?
- 11 A. Yes, sir.
- 12 Q. And attached thereto do you see green cards
- 13 indicating those notice letters that were received and
- 14 signed for?
- 15 A. I do.
- Q. And looking at Exhibit 8, is it your
- 17 understanding that these are two separate affidavits of
- 18 publication listing specifically the names of persons
- 19 and entities for whom green cards were not returned or
- 20 no response was had. Are these essentially -- I'm going
- on here, but are these essentially the nonlocatables?
- 22 A. Yes, sir.
- 23 Q. Very good.
- MR. McMILLAN: And then I will testify, I
- 25 guess, as the one who sent these letters, that there

1 remain outstanding about 15 or so letters that we

- 2 haven't received a green card back for, and so I guess
- 3 what we would ask for is that these cases be continued
- 4 so that I can publish with respect to these 15 or so
- 5 persons and entities. Again, the list is mighty long,
- 6 and we got a good response or a good number of green
- 7 cards back, but given the time crunch, we're going to
- 8 have to publish as to approximately 15 of these
- 9 individuals.
- Q. (BY MR. McMILLAN) Okay. So were Exhibits 1, 2,
- 4 and 5 prepared by you, Mr. Zimmerman, or at your
- 12 direction and control?
- 13 A. Yes.
- 14 Q. Is it your understanding that Exhibit 3 will
- actually be sponsored by our next witness?
- 16 A. Yes, sir.
- 17 Q. Okay.
- 18 MR. McMILLAN: And I would tender now at
- 19 this time Exhibits 1, 2, 4 and 5, as well as my Exhibits
- 20 7 and 8, which are the notice affidavits and the
- 21 affidavits of publication.
- 22 EXAMINER GOETZE: Mr. Bruce.
- MR. BRUCE: No objection.
- 24 EXAMINER GOETZE: Very good. Then Exhibits
- 25 1, 2 -- and these are Black Mountain exhibits. 1, 2, 4,

- 1 5, 7 and 8 are so entered into record.
- 2 (Black Mountain Operating Exhibit Numbers
- 3 1, 2, 4, 5, 7 and 8 are offered and
- 4 admitted into evidence.)
- 5 EXAMINER GOETZE: Do you have any
- 6 questions?
- 7 MR. BRUCE: A few.
- 8 CROSS-EXAMINATION
- 9 BY MR. BRUCE:
- 10 Q. Let's first go to Exhibit 7, Mr. Zimmerman. Go
- 11 to your listing. I guess it's on page 8 of Exhibit 7,
- 12 your listing of offset operators. You might want to
- 13 pull out your Exhibit 3, the land plat. You list
- 14 Mewbourne Oil Company because of the offset. Is that --
- 15 **15 acres?**
- 16 A. Yes, sir.
- 17 Q. Where is GMT's acreage?
- 18 A. I cannot tell you off the top of my head.
- 19 Q. Where is Siana Oil and Gas Company's acreage?
- 20 A. I can't tell you off the top of my head.
- Q. Where is CML Exploration's acreage?
- A. Do not know.
- 23 Q. Did you notify people in Section 2 -- I mean --
- 24 excuse me -- Section 11 of your nonstandard unit?
- 25 A. I believe we did.

- 1 Q. How about section -- in Section 14?
- 2 A. Yes, sir.
- 3 Q. How about the northwest quarter -- northwest
- 4 quarter of Section -- what would that be -- 23 in the
- 5 southeast quarter?
- 6 A. Yes, sir. To my knowledge, yes.
- 7 Q. And in Section 22?
- 8 A. Yes, sir.
- 9 Q. Section 21?
- 10 A. I do not know.
- 11 Q. Section 16?
- 12 A. Yes, sir.
- 13 Q. Did you see Mewbourne's exhibit regarding
- 14 offsets?
- 15 A. Yes, sir.
- 16 Q. How come you only have three offsets and they
- 17 have about 12 or 14?
- 18 A. Do not know.
- 19 Q. Might you have omitted some offset operators?
- 20 A. If we're taking into account sections to the
- 21 southeast and southwest, possibly, yes, sir.
- Q. Looking at your Exhibit 3 again, you've
- 23 proposed some certain drilling. Who owns in the north
- 24 half of Section 10; do you know?
- 25 A. I do not know.

- 1 O. How about Section 3?
- 2 A. From Mewbourne's testimony, it sounded like BTA
- 3 owns some working interest in that section.
- 4 Q. But you have not broached with them the subject
- 5 of any development like you are putting forth in your
- 6 Exhibit 3?
- 7 A. No, sir.
- 8 Q. So that's just speculative, to use
- 9 Mr. McMillan's term?
- 10 A. I suppose you could say that, yes. There would
- 11 be many scenarios, many different ways you could develop
- 12 these two sections.
- Q. Going to your Exhibit 2, which interest owners
- on Exhibit 2 have signed your JOA? And your JOA does
- 15 cover all three of your proposed well units, correct?
- 16 A. Yes, sir.
- 17 Q. And along that line, why wouldn't you -- go
- 18 ahead. Go ahead. Who has joints [sic]?
- 19 A. Chemily Management and Lisa Barr have signed
- 20 JOAs.
- Q. On what page is that? Chemily Management?
- 22 A. Yes, sir.
- 23 Q. Which --
- 24 A. They are --
- 25 Q. Which page?

- 1 A. Page 5 of the exhibit.
- 2 Q. Chemily Management. Okay. That's the only one
- 3 that's signed so far?
- 4 A. And Lisa Barr --
- 5 Q. Lisa Barr.
- 6 A. -- on page 3.
- 7 Q. Thank you very much. I did find that one.
- 8 So about .22 percent has joined in your
- 9 well proposal?
- 10 A. Yes, sir.
- 11 Q. Are those only -- do they own interests in
- 12 Section 10 or in the south half of Section 15?
- 13 A. Section 10.
- 14 Q. Is COG Operating on this list?
- 15 A. Not to my knowledge.
- 16 Q. Then let's ask this question: Did Black
- Mountain have a title opinion done on Section 15?
- 18 A. No, sir. We do not have a title opinion on
- 19 Section 15.
- 20 Q. Do you have a title -- did you have a title
- 21 opinion done on the southeast quarter and -- southwest
- 22 quarter of Section 10?
- A. No, sir. We do not have a title opinion.
- Q. So you have takeoffs or title reports on them?
- 25 A. Yes, sir.

1 Q. In what time frame would you -- if -- if Black

- 2 Mountain is successful in its application, what time
- 3 frame would you propose drilling the well?
- 4 A. I was told by our technical team as soon as we
- 5 were granted a permit, we would develop plans to drill
- 6 these wells as soon as possible.
- 7 Q. Would Black Mountain be drilling it, or would
- 8 Marathon be drilling it?
- 9 A. Depending on the time frame. I don't know the
- 10 answer to that question.
- 11 Q. One more thing about your proposed JOA. The
- depth is from the surface to 13,381 feet. Does that
- 13 encompass the Wolfcamp?
- 14 A. No, sir, it does not.
- 15 Q. Do you currently have a rig under contract to
- 16 drill these wells?
- 17 A. That is not my expertise.
- 18 Q. You mentioned that Black Mountain is drilling
- 19 its first horizontal well in New Mexico. Where is that
- 20 **well?**
- 21 A. That is in Eddy County.
- Q. What type of well is it? What formation are
- 23 you testing?
- 24 A. I believe it is a Wolfcamp well.
- 25 Q. Has that well been spudded?

- 1 A. No, sir.
- 2 Q. Have you filed with the BLM APDs for your three
- 3 proposed wells?
- 4 A. No, sir.
- 5 Q. Why was the AFE that was prepared in about the
- 6 first week of December modified in the first week of
- January, within about 30 days?
- 8 A. I cannot speak to that.
- 9 Q. And what is the proposed closing date of Black
- 10 Mountain's sale to Marathon?
- 11 MR. McMILLAN: Objection, foundation.
- 12 EXAMINER GOETZE: Well, let's not ponder
- 13 with that. I think that's not really relevant to our
- 14 case.
- MR. BRUCE: Okay.
- 16 EXAMINER GOETZE: It's not part of the
- 17 application. Let's move on to something more relevant,
- 18 if you would, please.
- MR. BRUCE: Okay.
- Q. (BY MR. BRUCE) Mr. Zimmerman, I've handed you
- 21 what's been marked Mewbourne Exhibit 25. Can you
- 22 identify what is contained in these two pages?
- 23 A. Looks like an AFE dated December 23rd, 2016.
- 24 Q. And for what wells --
- 25 A. The Gramma Ridge wells.

1 Q. Where are these located approximately from the

- wells at issue here today?
- 3 A. I would say approximately -- just guessing --
- 4 four, five miles away.
- 5 Q. To the north?
- 6 A. Yes, sir.
- 7 Q. And are these wells -- are these for
- 8 one-and-a-half-mile lateral wells?
- 9 A. Yes, sir, they are.
- 10 Q. 3rd Bone Spring wells?
- 11 A. Yes, sir.
- 12 Q. Just like we're here for today?
- 13 A. That's correct.
- 14 Q. What is the approximate cost of these AFEs?
- 15 A. Looks to be approximately \$8.2 million.
- 16 Q. Were these submitted to GMT Exploration?
- 17 A. I believe they were.
- 18 Q. Have these AFEs ever been changed?
- 19 A. I do not know the answer to that.
- 20 Q. Have you ever seen a changed AFE?
- 21 A. Yes, sir.
- 22 Q. For these wells?
- 23 A. No, sir. I do not know.
- Q. Are these the only AFEs that have been
- 25 submitted to GMT regarding these wells?

- 1 A. I don't know the answer to that.
- Q. I would state for the record, Mr. Zimmerman,
- 3 that there is a gentleman here from GMT who could say
- 4 that they have not received any revised AFEs reflecting
- 5 the lower well cost.
- 6 MR. McMILLAN: I need to object to this
- 7 whole line of questioning. It's beyond the scope of
- 8 direct.
- 9 MR. BRUCE: What I'm asking --
- 10 Mr. Examiner, in Mewbourne's cases, all of a sudden
- 11 Black Mountain comes up with a magical \$1 million
- 12 decrease in well costs, but in these GMT wells, which
- 13 are one better, continued to two weeks, it's still 8.2
- 14 million. And I'm just showing, really, the reasonable
- well cost is 8.2 million, not 7.2 million.
- 16 EXAMINER GOETZE: We will take it as what
- 17 you have submitted like all the other evidence. I don't
- 18 think we need to proceed any further.
- MR. BRUCE: I think I'm done.
- 20 EXAMINER GOETZE: I hope so. Thank you.
- 21 But you can't be because this is an exhibit.
- 22 MR. BRUCE: I would move the admission of
- 23 Exhibit 25.
- MR. McMILLAN: And I would object to that
- 25 that motion as -- this exhibit and the line of

1 guestioning being beyond the scope of direct. And as I

- 2 previously suggested -- well, I guess that was a
- 3 different line of questioning, but also there is no
- 4 foundation for any of this. It's irrelevant to today's
- 5 proceeding.
- 6 MR. BRUCE: The witness identified them as
- 7 Black Mountain's AFEs.
- 8 EXAMINER GOETZE: You know, we're going to
- 9 go ahead and enter it. Again, the scope of this is to
- 10 look at comparisons, and this is providing a comparison.
- 11 And we will use it as such, but we won't exclude it just
- 12 based upon the fact that this is a different area but it
- is by the same operator. So I'm just going ahead --
- 14 Exhibit 25, we're going to enter it into the record, and
- 15 we will consider it.
- Would you like to --
- 17 MR. McMILLAN: Can I have a moment?
- 18 EXAMINER GOETZE: You may ask questions.
- 19 (Mewbourne Oil Company Exhibit Number 25 is
- 20 offered and admitted into evidence.)
- 21 REDIRECT EXAMINATION
- 22 BY MR. McMILLAN:
- 23 Q. Do you recall Mr. Bruce asking you about those
- 24 interest owners who have voluntarily committed to this
- 25 well? Do you remember him asking you for percentages?

- 1 A. Yes.
- 2 Q. Okay. I believe you identified the two
- 3 entities that have committed by signature, correct?
- 4 A. Yes.
- 5 Q. Can you review for us those entities who have
- 6 provided a verbal commitment to you?
- 7 A. Yes. It would be Seeligson Oil Company.
- Q. Where are they located on your exhibit? 2?
- 9 A. Seeligson would be on page 2.
- 10 Q. Near the top of the second page?
- 11 A. Current Resources.
- 12 Q. Current Resources? Where is Current Resources
- 13 located on this list? Is it about the middle of page 4?
- 14 A. Yes, as well as Dasco Energy, about the middle
- 15 of page 5.
- 16 Q. That was Dasco Energy?
- 17 A. Yes.
- 18 Q. And they are the middle of page 5?
- 19 A. Yes.
- 20 Q. And including those folks, what percentage of
- 21 this acreage is voluntarily committed to these wells?
- 22 A. That would be 25.11 acres.
- 23 Q. If per chance offset operators were -- if, in
- 24 fact, Mr. Bruce has identified true offset operators who
- 25 need to be notified here, would Black Mountain -- and

1 if, in fact, there are folks -- offset operators who

- don't appear on Exhibit 7, would Black Mountain be
- 3 willing to immediately provide notice and cure any
- 4 defect here?
- 5 A. Absolutely. Yes.
- Q. Okay. I think that's everything. Thank you.
- 7 EXAMINER GOETZE: Thank you very much.
- 8 EXAMINER WADE: I do not have any
- 9 questions.
- MR. BRUCE: I have one follow-up.
- 11 EXAMINER GOETZE: We've got to call the
- 12 line. You can do it later.
- MR. BRUCE: Okay. That's fine.
- 14 EXAMINER GOETZE: You've got opportunity
- 15 for rebuttal.
- So no questions?
- 17 EXAMINER WADE: No questions.
- 18 EXAMINER GOETZE: Mr. Jones?
- 19 CROSS-EXAMINATION
- 20 BY EXAMINER JONES:
- Q. The actual title on the lands is held by Mull,
- 22 Kramer, McCarty & Hayda [phonetic]; is that right? Is
- 23 that correct? I mean, they actually have the leases,
- 24 record title holders --
- 25 A. Oh, yes, sir.

- 1 Q. -- with the federal leases?
- 2 A. Yes, sir.
- 3 Q. I don't have -- I guess one question was --
- 4 would be -- I'll wait for the next witness to talk about
- 5 that one. So I don't have anything. Thank you. You've
- 6 been grilled enough.
- 7 EXAMINER GOETZE: And I have no questions
- 8 for this witness. Thank you very much.
- 9 Let's take a five-minute break here and
- 10 stretch our legs.
- 11 And you have one more? You have your
- 12 geologist?
- MR. McMILLAN: Engineer.
- 14 EXAMINER GOETZE: Engineer. Okay. Sc
- 15 let's give him a fresh start.
- 16 (Recess, 4:25 p.m. to 4:36 p.m.; Examiner
- Wade not present.)
- 18 EXAMINER GOETZE: You may proceed,
- 19 Mr. McMillan.
- MICHAEL E. McCRACKEN, Ph.D.,
- 21 after having been previously sworn under oath, was
- 22 questioned and testified as follows:
- 23 DIRECT EXAMINATION
- 24 BY MR. McMILLAN:
- 25 Q. Please state your full name for the record.

- 1 A. Michael Edward McCracken.
- Q. Is it Dr. McCracken?
- 3 A. It is.
- 4 Q. Dr. McCracken, where do you reside?
- 5 A. 1505 Daisy Lane, Flower Mound, Texas.
- 6 Q. By whom are you employed?
- 7 A. Black Mountain Operating, LLC.
- 8 Q. What is your current position?
- 9 A. I'm the chief operating officer.
- 10 Q. Have you previously testified before the
- 11 New Mexico Oil Conservation Division and had your
- 12 credentials as an expert in petroleum engineering
- 13 accepted and made a matter of record?
- 14 A. I have not.
- Q. Could you please review for us your educational
- 16 background?
- 17 A. I have a bachelor's degree and a master's
- degree and a Ph.D. in mechanical engineering from Purdue
- 19 University. I was, additionally, retrained as a
- 20 petroleum engineer by ExxonMobil.
- Q. Can you then summarize for us your work
- 22 experience?
- 23 A. Yes. In 2014, I took the position of reservoir
- 24 engineer at ExxonMobil in Houston at their Upstream
- 25 Research Company, underwent several months of training

1 learning reservoir engineering and being cross-trained

- 2 in geology and completions.
- I went on to actually instruct in several
- 4 of their engineering courses, worked offshore fields,
- 5 including North Slope of Alaska, West Coast Africa, Gulf
- of Mexico, then transitioned to unconventional assets in
- 7 the Piceance Basin.
- 8 (The court reporter requested the witness
- 9 speak louder and slower.)
- 10 A. And then worked the Piceance Basin, and then
- 11 also worked in Shell Gas Research. After seven years, I
- 12 left ExxonMobil and took a position at Pioneer Natural
- 13 Resources at Las Colinas [sic]. And I took a position
- 14 as staff. I was a reservoir engineer, and I was their
- 15 field development coordinator for the Eagle Ford asset.
- 16 They were ramping up to 14 rigs, and I did a lot of work
- 17 there just guiding the development plan and making
- 18 strategic decisions.
- 19 I moved on from there to Enduro Resource
- 20 Partners working conventional assets in the Bighorn and
- 21 Fulsome [phonetic] Basin. I eventually became vice
- 22 president of development, heading up reservoir and
- 23 geology groups. We drilled 30 or so horizontal wells in
- 24 those assets.
- 25 In 2015, I took a position with Black

1 Mountain Oil & Gas as we started up our company.

- 2 Q. Great.
- And just to make sure the record is clear
- 4 and also to check my own hearing, I just want to make
- 5 sure the year in which you accepted a position as a
- 6 reservoir engineer with ExxonMobil. What year was that?
- 7 A. 2004.
- 8 Q. 2004. Great.
- 9 Are you familiar with the applications
- 10 filed in these cases?
- 11 A. I am.
- 12 Q. And are you familiar with the status of the
- 13 lands in the subject area?
- 14 A. I am.
- 15 **Q.** Okay.
- 16 MR. McMILLAN: At this time I'd like to
- 17 tender Dr. McCracken as an expert petroleum engineer.
- 18 EXAMINER GOETZE: Mr. Bruce?
- MR. BRUCE: No objection.
- 20 EXAMINER GOETZE: He's so qualified. Thank
- 21 you.
- Q. (BY MR. McMILLAN) Let's begin. Can you please
- 23 give the Hearing Examiners a brief overview of the
- 24 drilling and completion plans for these wells?
- 25 A. Yes, I can.

1 As Mr. Zimmerman mentioned, we plan to

- 2 drill north-south oriented wells in the south half of
- 3 Section 10 and in through Section 15, trying to maximize
- 4 the producing lateral length as much as we can using the
- 5 standard 330-foot setbacks on the leaselines. We plan
- 6 to complete the wells in the basal 3rd Bone Spring, and
- 7 we plan to use high-intensity proppant fractures, around
- 8 2,000 pounds per foot, in relatively tight cluster stage
- 9 spacing to maximize recovery and economics.
- 10 Q. Have you developed certain exhibits for our
- 11 reference during this hearing?
- 12 A. I have.
- 13 Q. Are they found in the packet behind tab six in
- 14 the packet of exhibits?
- 15 A. Yes, they are.
- 16 Q. Great. Let's all turn there, to Exhibit 6.
- 17 Turning to page 1 of Exhibit 6, is this a summary of
- what you intend to testify to today?
- 19 A. Yes, sir, it is.
- Q. Can you please walk us through this page?
- 21 A. Yes, I can.
- 22 As I mentioned before, we have independent
- 23 development plans for this acreage, the south half of
- 24 Section 10 and Section 15, that we believe maximizes the
- 25 economic recovery of hydrocarbons by employing long

1 laterals. There are several reasons behind this and why

- 2 it works. You know, basically long laterals are known
- 3 by the industry to reduce waste and to maximize economic
- 4 returns. That's due to multiple reasons.
- 5 One, the EUR, as I'll show in these
- 6 exhibits, scales virtually linearly with the completed
- 7 lateral length. Basically, you're losing -- you're
- 8 alluding [sic] all the losses due to the leaseline
- 9 setbacks, and that will enable you to increase your
- 10 reserves. Also, you know, the drilling costs don't --
- 11 do not scale linearly -- lateral, in general. Also,
- 12 you're going to get a longer economic well life from the
- 13 well because of the fixed costs that are associated with
- 14 it that cut off the economic limit for the well. And
- 15 I'll show that. And then it also reduces your surface
- 16 footprint. There are less roads, less right-of-way,
- 17 less pads being built, and so it's better for the
- 18 environmental impact.
- 19 Mewbourne's development plan calls for
- 20 5,000-foot laterals, which, in our opinion, reduces the
- 21 economic efficiency and would result in loss of
- 22 hydrocarbon recovery versus our plan, and there is a
- 23 chance it could potentially leave Black Mountain Oil and
- 24 Gas acreage stranded. And as we've talked about before,
- 25 you know, we think we're pretty easy to work with, and

1 we offered a trade that was mutually beneficial for

- 2 Mewbourne, a west half-east half trade, but they
- 3 declined it.
- 4 Q. Turn to page 2. Is this essentially an area
- 5 locator map showing the areas of comparison?
- 6 A. Yes, it is.
- 7 Q. Can you briefly orient us using this exhibit?
- 8 A. Yes.
- 9 So the zoomed-out picture shows where this
- 10 acreage sits in relationship to the broader development
- 11 area. You can see it's the potash area with the red
- 12 outline, and then I've highlighted here three comparison
- 13 areas where I plan to demonstrate that recovery of
- 14 hydrocarbons scales with the completed lateral length.
- 15 And so just for future reference, we've got a comparison
- 16 area of, one, which we've loosely talked about in
- 17 previous testimony, the 2nd Bone Spring; comparison area
- 18 two, the 3rd Bone Spring wells; and comparison area
- 19 three with Avalon wells with various lateral lengths.
- 20 Q. Great. Thank you.
- 21 Let's see. We may have already gotten this
- 22 into the record, but can you briefly describe Black
- 23 Mountain's acreage position in Section 15 and Section
- 24 10?
- 25 A. Yes.

1 Our acreage is highlighted there in yellow,

- 2 so we're owning in the southeast quarter and the
- 3 northwest quarter of Section 15, the southeast quarter
- 4 of Section 10 and the north half of the southwest
- 5 quarter of Section 10.
- 6 Q. Great.
- 7 Let's take a look at page 3 of the exhibit.
- 8 Can you just give us a sense of what we're looking at
- 9 here, please?
- 10 A. Yes.
- This is our idealized development plan for
- 12 the area if we had, I guess, full control of the south
- 13 half of Section 10 and Section 15 as operator. We see
- 14 multiple benches having perspective that we would like
- 15 to develop. And so you have both the stick map on the
- 16 left side of that exhibit and then a gun-barrel view on
- 17 the right half. And so we see 2nd Bone Spring having a
- 18 large target where we can stagger laterals and 3rd Bone
- 19 Spring, which is the subject of this hearing, as well as
- 20 Wolfcamp A and Wolfcamp D potential.
- 21 Q. And, again, this is an idealized schematic of
- 22 Black Mountain's development plan?
- 23 A. That's correct.
- 24 Q. Okay. What about the potential targets for
- development in the three units that we're discussing

- 1 today?
- 2 A. The potential targets are -- I guess as I was
- 3 mentioning before, we've got the 2nd Bone Spring, 3rd
- 4 Bone Spring. Wolfcamp A and Wolfcamp D, subject to this
- 5 hearing, is around the 3rd Bone Spring development.
- 6 Q. Great.
- 7 And just to be clear, what length of
- 8 laterals is Black Mountain proposing to utilize in these
- 9 sections?
- 10 A. Mile-and-a-half laterals.
- 11 Q. And what unit configurations will be designated
- 12 for the wells?
- 13 A. These will be 240-acre units.
- 14 Q. And the take points are situated at orthodox
- 15 locations, correct?
- 16 A. That's correct.
- 17 Q. Have you conducted, Dr. McCracken, an
- 18 engineering investigation to determine whether the
- drilling of these proposed 7,500-foot laterals is a more
- 20 efficient way to develop the oil reserves in this area?
- 21 A. Yes, I have.
- 22 **Q.** Great.
- 23 Can you summarize for the Examiners the
- 24 conclusions you have reached with respect to whether
- 25 drilling 7,500-foot laterals on 240-acre units will

1 result in incremental recoveries exceeding those you

- would anticipate for 4,600-foot laterals on 160s?
- 3 A. Yes, I can. We'll get into all the details in
- 4 the subsequent exhibits, but it's well known within the
- 5 industry that longer laterals increase recovery and
- 6 improve economics for not only for the operator but all
- 7 the other working interest parties and the NRI owners
- 8 and, thereby, also the State. And we'll go through
- 9 those exhibits here in a little bit.
- 10 Q. Okay. So let's turn together to your page 4
- 11 and if you could explain just for the record what the
- connection is between your pages 4, 5 and 6 and page 2.
- 13 Just tie those together for us.
- 14 A. Okay. So on page 4 of our exhibit, we have
- 15 comparison area one where the 2nd Bone Spring wells are
- 16 all drilled in the same neighborhood, a mixture of
- one-mile laterals and mile-and-a-half laterals, and I
- 18 point out those wells, including the Mewbourne Antelope
- 19 9 well, the COG Gettysburg State wells and the Endurance
- 20 Stratocaster wells.
- 21 And at the bottom of that, you'll see a
- 22 summary table that has the well name, the API number,
- 23 the date of first production, the completed lateral
- length for each one of those wells, and then the
- 25 proppant intensity represented in pounds per foot, as

1 this is a well-known fluence on well performance. So

- 2 it's important to note any differences that we see as we
- 3 go through these comparisons.
- Then I have the cumulative production to
- 5 date both for oil and gas, as well as our remaining
- 6 reserve calculations for oil and gas. That then added
- 7 together yields a gross EUR, and. The upper half of
- 8 that table shows the short lateral lengths, and the
- 9 bottom half of that shows the long lateral lengths.
- 10 So the bottom line is if you look at the
- 11 ratios of that on a BOE basis, we're looking at a ratio
- of about 1.4. The longer lateral lengths outperform the
- 13 shorter lateral lengths for a ratio of completed lateral
- 14 length of 1.72. So if it's scaled linearly, we would
- 15 want to see like a -- those numbers both be identical.
- 16 So we're just slightly less than linear scaling here by
- 17 about 82 percent scaling. But also notice that we are
- 18 dealing with lower proppant intensity for the longer
- 19 laterals compared to the shorter laterals, and if you
- 20 were to additionally scale for that proppant intensity,
- 21 it would be near linear.
- 22 Q. Okay. What kind of conclusions -- are there
- 23 any other additional conclusions you can draw from the
- 24 fourth page of your exhibit?
- 25 A. Yeah. So the main conclusion here is that

1 we're looking at direct offsets with different horizon,

- 2 2nd Bone Spring, but we're seeing near linear scaling,
- 3 especially linear -- scale for proppant intensity, well
- 4 performance and completed lateral length, showing that
- 5 the completed -- an increasing completed lateral length
- 6 is important.
- Q. Okay. Let's go ahead and look at page 5. And
- 8 how does this relate back to page 2?
- 9 A. So page 5 is yet another comparison area. Now
- 10 we're looking at 3rd Bone Spring, the exact same target.
- 11 This is probably the most pure example that we will be
- 12 able to find as far as comparing lateral lengths. And
- 13 the reason is it's the same, exact operator who has
- 14 drilled all these wells. They've done them in the same
- 15 horizon and nearly the same time period. So we're
- 16 looking at COG and the Cortison [phonetic] State wells.
- 17 They're drilling close to mile-and-a-half laterals to
- 18 the north there in that Section 3, and then in Section
- 19 10, they're drilling one-mile laterals.
- 20 Again, we have a summary table at the
- 21 bottom with all the same information that was in slide
- 22 four, the cum to date, proppant loading, the remaining
- 23 reserves in the gross EUR.
- So in this case, we're seeing a gross EUR
- 25 ratio of 1.73, looking at a completed lateral length

- 1 ratio of 1.61, basically looking at super linear ratio
- 2 between the recovery and the proppant and the completed
- 3 lateral length of about 108 percent. And we would -- we
- 4 would -- we would expect it to be linear, so, you know,
- 5 maybe se geologic components even though those are so
- 6 close as to why we're seeing being super linear, but the
- 7 proppant intensity is nearly identical between the two.
- 8 Q. Okay. Any additional conclusions you'd like to
- 9 draw from this page, or shall we move on?
- 10 A. No. Let's go to the next.
- 11 Q. All right. Let's look at page 6.
- 12 A. Page 6 is another comparison area. Here we're
- 13 looking at Avalon wells all drilled by EOG, various
- 14 lateral lengths all in the -- all in the Avalon.
- 15 Again, got a comparison table at the bottom
- 16 with short lateral lengths and long laterals. Looking
- 17 at a BOE ratio of 1.99 versus a lateral ratio of 1.55,
- 18 and the ratio of the proppant intensities is about 1.
- 19 So some of the proppant intensities is getting better
- 20 performance with the longer laterals in this case.
- So we believe that this just confirms what
- 22 all the industry is going to and why they're doing it,
- 23 that we're getting more economic recovery from going to
- 24 longer lateral lengths.
- 25 Q. Jumping ahead just a bit here, I'm looking at

1 pages 13 through the end of your exhibit. These appear

- 2 to be, in layman's terms, curves of some sort. Can you
- 3 explain to us how these -- these curves relate to the
- 4 analysis you just explained to us?
- 5 A. Sure.
- 6 For the sake of completeness and
- 7 transparency, slides 13 through 35 are our type curves,
- 8 are our forecasts for all the wells, basically to show
- 9 that we didn't do anything tricky to come up and to
- 10 change the EURs, and we've used consistent engineering
- 11 practices.
- 12 Q. Moving right along to page 7 of your exhibit,
- 13 can you kind of tell us what we're looking at here?
- 14 A. Yes, I can. This is a comparison diagram
- 15 illustrating why the longer lateral length development
- 16 leads to less waste and increasing the EUR.
- 17 So on the very left side on that, we're
- 18 showing a 5,000-foot development in the north-south
- 19 laterals and your 330-foot setbacks. Now, what you can
- see as you compare that to your 7,500-foot are nominally
- 21 [sic] mile-and-a-half length laterals. We encounter
- less setbacks, which is what allows us to have a longer
- 23 completed lateral length, and this is what makes the
- 24 longer lateral development better from a recovery
- 25 standpoint.

1 There are additional benefits to having a

- 2 longer lateral such that you're not drilling the
- 3 overburden multiple times, and so that makes your cost
- 4 more efficient. You have less facilities. You have
- 5 less wells that you have to send a pumper to. There are
- 6 a whole host of other reasons on the economic side. But
- 7 this side is mostly focused around why it's superior
- 8 from a recovery standpoint.
- 9 So if you compare the two development plans
- in the table, we have the undeveloped acres associate
- 11 [sic] 5,000-foot laterals. This is simply done by
- 12 calculating your setback, multiplied by your section
- 13 width. You have 240 acres over the three-section
- 14 display that's not developed or underdeveloped. And
- 15 then with the mile-and-a-half long laterals, you only
- 16 have 160 acres. So if you take the difference of those,
- 17 you're looking at 80 acres of wasted, that are not
- 18 properly drained, and that's about 4.2 percent.
- So if we take our average type curve from
- 20 the previous work and multiply that out -- that type
- 21 curve was 310 barrels -- 310,000 barrels of oil and 661
- 22 million cubic feet of gas, we're looking at lost oil
- 23 just under 13 million -- 13,000 barrels and lost gas
- 24 just under 28 million cubic feet. If we calculate that
- 25 out in lost revenue for the State on the oil revenue,

1 assuming at 8.13 percent severance tax, we're looking at

- about \$53,000 on the oil side and about \$7,000 on the
- 3 gas side. So total lost revenue per zone, per well
- 4 would be about \$60,000.
- 5 And that number may not be that large, but
- 6 we're talking about stacked pay, and we're talking about
- 7 a lot of laterals that could be drilled. So when you
- 8 multiply that out by number of -- looks like the
- 9 interval will be four, and on the low side, four wells
- 10 per section, we're looking at about a million dollars of
- 11 lost revenue for the State.
- 12 Q. Great. Thank you for that explanation.
- 13 Let's look -- let's move to page 8. And
- 14 I'm going to let you just explain this exhibit to us.
- 15 A. Sure.
- 16 Another way that long laterals increase
- 17 recovery and thereby also increase -- improve economics
- 18 for the working interest owners, NRI owners and the
- 19 State is related to the end of the economic limit for
- 20 well life.
- So as the well comes near its end, the
- 22 predominant costs that make it become economic are the
- 23 fixed costs, but you have to have a pumper come out
- 24 there every month. You're paying them a salary. You
- 25 have a meter charge. Even if you're not using your

1 electricity very much, the electric company likes to

- 2 charge you a lot of money to have your meter sitting out
- 3 there. And you're going to have a set number of
- 4 workovers that are just going to happen. You're going
- 5 to get holes in tubing, pump changes, things like that,
- 6 and all those things are pretty much fixed costs. They
- 7 don't vary with the production.
- 8 So this illustrates the cash flow profiles
- 9 for a 5,000-foot lateral and a 7,500-foot lateral. The
- 10 fixed LOE for those two -- those two wells are basically
- 11 the same. You're not really changing your fixed cost.
- 12 And you can see that where the straight-running black
- 13 line crosses over, that that represents the fixed LOE,
- 14 that you end up getting six years longer economic life
- 15 with a longer lateral.
- 16 And so you can go calculate the reserves
- 17 that are associated with that. So if we go back using
- our example type curve, 370,000 barrels of oil and 600
- 19 million cubic of gas per 5,000 foot versus the 55-,
- 20 60,000 barrel oil and 923 million cubic feet foot for
- 21 the mile-and-a-half laterals, you can calculate that you
- 22 would get an additional \$22,000 in severance taxes for
- 23 that well associated with that.
- To normalize this back to a 5,000-foot
- 25 lateral, you need multiply by two-thirds. If you do

1 that, you get about \$14,500 in lost severance taxes per

- 2 well or \$300,006 for BMOGs, 21-well development plan.
- 3 Q. Very good. Any further conclusions to be drawn
- 4 here, or should we move on?
- 5 A. We can move on.
- 6 Q. Yeah. Let's move on to page 9. Did you work
- 7 with Black Mountain's geologists or geologist in
- 8 developing the development plan here?
- 9 A. Yes, sir.
- 10 Q. In looking at page 9, this appears to be a
- 11 cross section. Can you tell me what we can glean from
- 12 this exhibit?
- 13 A. This cross section simply shows that the 3rd
- 14 Bone Spring is continuous across all of our acreage, so
- 15 we're not adding in acreage that would not add value.
- 16 So basically we're -- we're not just trying to throw in
- 17 this south half of Section 10 just for the sake of
- 18 getting it contributed to the well.
- This cross section shows it's flattened on
- 20 the 3rd Bone Spring. Probably the easiest curve to look
- 21 at is the resistivity curve. You can see the
- 22 resistivity pulled back from the 3rd Bone Spring, and
- 23 it's a consistent package across the section.
- Q. Okay. Great.
- 25 Turning to page 10, it appears to be a

- 1 structure map of the Wolfcamp?
- 2 A. It is.
- Q. Can you tell us what we need to know from this
- 4 exhibit?
- 5 A. Yes. This is our structure map on the
- 6 Wolfcamp. It varies slightly from the one we just saw
- 7 from Mewbourne. I did a quick comparison, but it's
- 8 largely similar.
- 9 We'll be drilling a long strike from the
- 10 north to the south. There is a chance for a small throw
- 11 fault to the south. We see a clustering of the contour
- 12 lines associated with the southeast-southeast of Section
- 13 15, and we prefer to drill north to south so that if we
- 14 do encounter that fault, it's much easier to do it at
- 15 the tail of the well and -- versus trying to land as you
- 16 go through it.
- 17 Q. Very good.
- 18 So ultimately is the Bone Spring continuous
- 19 across Sections 10 and 15?
- 20 A. Yes, sir.
- 21 Q. And ultimately will all of the 40-acre tracts
- 22 contribute reserves to these wells?
- A. Yes, it will.
- Q. To your knowledge or in discussion with your
- geologist, are there any geologic or structural

1 discontinuities across the project areas for the wells

- 2 that would adversely affect development by horizontal
- 3 wells?
- 4 A. The only potential that we see for
- 5 discontinuities would be associated as we head to that
- 6 southeast-southeast of Section 15. We feel that it
- 7 would be a fairly small throw fault that we could easily
- 8 handle.
- 9 Q. It wouldn't be of such a large magnitude that
- 10 it would adversely impact your development?
- 11 A. That's correct.
- 12 Q. In your opinion, are there any additional -- is
- 13 there any additional potential of interference to
- 14 offsetting production by developing these sections with
- 15 horizontal wells configured across these nonstandard
- 16 units?
- 17 A. No.
- 18 Q. Any further explanation there?
- 19 A. Essentially, what we're seeing in the industry
- 20 and I guess empirically being proven is that tighter and
- 21 tighter cluster spacing is resulting in more and more
- 22 increases of EUR. So by being able to have less
- 23 setbacks in your development and being able to get that
- 24 tight cluster spacing in, it enhances the recovery,
- 25 which also means that you're not going to dramatically

1 interfere with other wells that are drilled parallel to

- 2 yours. Basically, limited recovery perpendicular to the
- 3 fractures.
- 4 Q. And in your opinion and supported by your
- 5 exhibits, will development with 7,500-foot laterals
- 6 enable Black Mountain to be able to efficiently and
- 7 economically recover additional incremental reserves
- 8 that would otherwise go unproduced?
- 9 A. Absolutely.
- 10 Q. And will this result in improved project
- 11 economics so that premature abandonment will be avoided?
- 12 A. Yes.
- Q. Oh. Will the development of these sections
- 14 with horizontal wells allow Black Mountain to minimize
- 15 surface disturbance?
- 16 A. Yes.
- 17 You know, obviously the longer lateral you
- 18 drill, the less pad locations that you're drilling, less
- 19 rights-of-way, less lease roads. Yeah. There are a
- 20 whole lot of reasons that you'd want to do it from a
- 21 surface standpoint.
- Q. And speaking of disturbance, in your opinion,
- 23 is Black Mountain's development plan disruptive of the
- 24 predominant development in the area? We can look at
- 25 Exhibit 3 for reference, perhaps.

1 A. We do not believe it is. Today's the first

- 2 time that we've heard anything about BTA. The entire
- 3 industry is -- I can name executives from multiple oil
- 4 and gas companies that are actively trying to
- 5 orchestrate trades so that they can drill longer
- 6 laterals. Earlier today we heard two pooling hearings,
- 7 one by XTO who wants to drill nothing but 10,000-foot
- 8 laterals, going to two-mile laterals, another one where
- 9 BC was not able to get a mile-and-a-half lateral due to
- 10 timing, but they really wish they could drill a
- 11 mile-and-a-half lateral. Everyone wants to go do that.
- 12 I don't see any reason why, as this play extends to the
- 13 north through Sections -- the north half of Section 3,
- 14 that people would not want to drill longer laterals.
- 15 Q. And do you recall Mewbourne's geologist
- 16 testifying that to his knowledge, there was nothing,
- 17 geologically speaking, that would preclude that kind of
- 18 development?
- 19 A. I'm sorry. Say that again.
- 20 **Q.** Sure.
- Do you recall Mewbourne's geologist earlier
- 22 today testifying that to his knowledge, there is nothing
- 23 geologically speaking that would preclude --
- A. Yes, I recall that, and I would concur,
- 25 especially 3rd Bone Spring. It's very consistent in

- 1 this area.
- Q. We've heard a bit today about the threat of
- 3 stranded acreage. Do you have an opinion as to the ways
- 4 in which -- starting with Black Mountain's development
- 5 plan, how it could conceivably eliminate the threat of
- 6 stranded acreage?
- 7 A. The plan optimizes the development, and there
- 8 are plenty of opportunities to drill long laterals, and,
- 9 basically, there won't be stranded acreage if that's
- 10 done.
- 11 Q. Have you examined Mewbourne's development plan
- 12 for this acreage?
- 13 A. I have.
- 14 Q. What are your conclusions in comparing
- 15 Mewbourne's development plan with Black Mountain's?
- 16 A. Mewbourne's development plan for mile-long
- 17 laterals, which are -- is not the preferential
- 18 development by the large host of operators in the
- 19 area -- it's a sub -- it's a suboptimal design due to
- 20 the leaseline setbacks and just the fact that you're not
- 21 going to complete much of the lateral length. The
- 22 economics are not as strong as long laterals due to
- 23 having to drill the overburden multiple times for every
- 24 time that you're having to go fill -- fill a section, as
- 25 well as an increased surface footprint.

1 Q. Earlier Mr. Zimmerman essentially deferred or

- 2 at least promised that you would provide a bit more
- 3 testimony concerning the experience of Black Mountain's
- 4 personnel in drilling horizontal wells.
- 5 A. Yes, sir.
- 6 Q. Can you expand upon that, give us a better
- 7 sense of the experience that your people have in
- 8 drilling these kind of wells?
- 9 A. Yes, I can.
- 10 Q. Great.
- 11 A. As Mr. Zimmerman mentioned, we are a relatively
- 12 new entity, and we'll spud our first well. That same
- 13 rig that BC just finished, Fried Chicken, is coming to
- 14 our well to drill the Cypress 1H well.
- 15 So, you guys, one week, we can meet and
- 16 schedule a rig.
- 17 We have -- all of our staff are well versed
- in drilling horizontal wells. I gave my background with
- 19 Pioneer Natural Resources, 140 horizontal wells in a
- 20 year, and then as a small company really having to
- 21 understand things soup to nuts, drilling 30 laterals.
- 22 Our geologic staff: We have a geo-steerer that has
- 23 geosteered hundreds of wells, another one that's been
- 24 involved in the planning, also, of hundreds of wells.
- Our ops engineer has fracked and sat on site for 50-plus

- 1 wells and designed and worked on over 100 wells.
- 2 So even though you guys haven't seen us
- 3 yet, we're confident that we know what we're doing, that
- 4 we will be able to ultimately develop the acreage.
- 5 Q. And if these applications are approved, is
- 6 Black Mountain prepared to drill these wells?
- 7 A. We are.
- Q. All right. Let's see. Earlier, Mewbourne, by
- 9 and through counsel, was asking a lot of questions of, I
- 10 believe, Mr. Zimmerman concerning Black Mountain's
- 11 change to your AFE between December of 2016 and January
- 12 of this year. Do you recall that?
- 13 A. Yes, sir.
- Q. Do you have an explanation for why Black
- 15 Mountain changed the AFE?
- 16 A. I do. And it also pertains to the -- it also
- 17 pertains to the GMT, the AFE that was referenced by
- 18 Mr. Bruce. All those AFEs were put together in
- 19 December. Our completions engineer, who was pricing out
- 20 those AFE, was using an old price tag that was dated,
- 21 and when we came back to re-issue AFEs, as this process
- 22 evolved in January, we revisited it and used current
- 23 costs, and that's why the completion costs are
- 24 different.
- 25 Some other important differences, we've

- done a pretty much kind of head-to-head comparison
- 2 between the AFEs. As Mr. Jones pointed out about where
- 3 do you land your intermediate casing, we prefer to land
- 4 that all the way through the Delaware. We think it's
- 5 safer. And so we have an additional \$200,000 of pipe
- 6 associated with that. Our day cost is higher. In our
- 7 new rig procurement, our day costs are coming much
- 8 closer to what Mewbourne's are. That's about another
- 9 \$100,000 difference between the two AFEs. And then the
- 10 last category that's the biggest difference is the
- 11 completion cost. Mewbourne's completion costs are just
- 12 way low. We don't think they can actually do that in
- 13 today's price environment with that cost. They're
- 14 putting a less pounds-per-foot proppant frac intensity
- 15 than we are going to do, and we think that also will
- 16 leave reserves behind.
- 17 Q. Okay. We also heard today about a trade that
- 18 was offered to Mewbourne that was rejected. Have you
- 19 executed trades with other parties in recent history?
- A. We have.
- 21 Q. Can you provide some details?
- 22 A. Yes. This also pertains to the desire to drill
- 23 long laterals. We recently executed a trade with XTO so
- 24 that they could drill two-mile laterals because that's
- 25 what they want to do, and we swamped like acreage in two

1 areas so we both could get to two-mile lateral

- 2 development.
- Q. And is it your sense that in this -- in this
- 4 area -- in this vicinity, that these kind of land swaps
- 5 are --
- 6 MR. BRUCE: I'd object to further
- 7 questioning. Land swaps aren't at issue here today.
- 8 The drilling of these wells is.
- 9 EXAMINER GOETZE: Well, to what advantage
- 10 do you have to continue on? How far are you going to go
- 11 with this?
- MR. McMILLAN: Can I finish this question?
- 13 EXAMINER GOETZE: Let's do the question.
- 14 Q. (BY MR. McMILLAN) Do you have a sense of
- 15 whether these kind of land swaps are a common practice
- in this part of the country?
- 17 A. Yes. As I mentioned, a large majority of the
- 18 operators -- maybe Mewbourne is the only exemption --
- 19 want to drill long laterals.
- Q. Okay. And I think you testified earlier that
- 21 the swap that you proposed with Mewbourne made sense for
- 22 both parties. Can you give any specifics about that?
- MR. BRUCE: I object to this.
- How do you know it made sense to Mewbourne?
- MR. McMILLAN: I'll rephrase the question.

1 Q. (BY MR. McMILLAN) Okay. Let's just do this.

- 2 Why do you think Mewbourne refused your trade offer?
- 3 A. I do not know why they refused our trade offer.
- 4 They would have been able to drill mile-and-a-half long
- 5 laterals. It made sense to both parties, other than to
- 6 think that they're trying to be difficult.
- 7 Q. And that's in your opinion?
- 8 A. That's in my opinion.
- 9 Q. And in what ways did it, to your mind, makes
- 10 sense to both parties?
- 11 A. As I mentioned before, both parties could drill
- 12 long laterals.
- 13 Q. If it became necessary here, would Black
- 14 Mountain be willing and able to drill two-mile laterals?
- 15 A. Yes. If BTA wants to drill one-mile laterals
- 16 north of us, we would be more than happy to amend this
- 17 whole hearing, and we'll drill two-mile laterals.
- 18 Q. Okay. And finally, I think -- no. Just about
- 19 finally. Mewbourne's -- Mewbourne, by and through
- 20 counsel, asked some questions about Black Mountain not
- 21 having filed the APDs with the BLM. Can you just
- 22 provide a little bit of explanation there as to why that
- 23 hasn't been done?
- 24 A. Yes, I can.
- 25 We've been careful to try to follow the

- 1 course of the rules and the law as far as when we can
- 2 file APDs. And since we don't have a compulsory pooling
- 3 and the fact we don't own underneath all the tracts, we
- 4 can't file APDs with the State, and then also that
- 5 affects all the development with the BLM determining
- 6 what sort of laterals we are able to develop. So once
- 7 we clear all that, we will go down the proper pathway
- 8 with the appropriate timing.
- 9 Q. And you know I'm at the end because I'm asking
- 10 this question. In your opinion, would the granting of
- 11 Black Mountain's applications be in the best interest of
- 12 conservation, the prevention of waste and the protection
- of correlative rights?
- 14 A. Absolutely.
- Q. Was Exhibit 6 prepared by you or at your
- direction, and also was what we referred to earlier as
- 17 Exhibit 2 part of Exhibit 6, and was that prepared by
- 18 you or at your direction?
- 19 A. Yes, they were.
- 20 Q. Great.
- 21 MR. McMILLAN: And I move the admission of
- 22 Exhibits 6 and 2 at this time.
- MR. BRUCE: No objection.
- 24 EXAMINER GOETZE: Well, let's take a gander
- 25 back. Wasn't it Exhibit 3 that you were --

- 1 MR. McMILLAN: It could have been.
- 2 EXAMINER GOETZE: That's right.
- 3 MR. McMILLAN: Thank you, Phil. I'm sorry.
- 4 Thank you, Mr. Examiner.
- 5 EXAMINER GOETZE: So would you like to
- 6 rephrase your exhibits?
- 7 MR. McMILLAN: Yes. I expect I would like
- 8 to rephrase. It's 3.
- 9 I'd like to move the admission of Exhibits
- 10 6 and 3 at this time.
- 11 Let me backtrack and just make sure that we
- 12 have it clear with the witness.
- 13 Q. (BY MR. McMILLAN) Was Exhibit 6 prepared by you
- 14 or at your direction?
- 15 A. Yes.
- 16 Q. And was what we referred to earlier today as
- 17 Exhibit 3 part of that package of Exhibit 6?
- 18 A. Yes.
- 19 Q. Great.
- 20 MR. McMILLAN: I would like to move the
- 21 admission of Exhibits 6 and 3.
- 22 EXAMINER GOETZE: Mr. Bruce?
- MR. BRUCE: No objection.
- 24 EXAMINER GOETZE: Very good. Exhibits 3
- 25 and 6 are so entered into the record.

Page 134 (Black Mountain Operating Exhibit Numbers 3 1 2 and 6 are offered and admitted into 3 evidence.) EXAMINER GOETZE: Mr. Bruce? 5 MR. BRUCE: I have a few questions, yes. CROSS-EXAMINATION 7 BY MR. BRUCE: 8 First of all, Mr. McCracken, the land swap is 9 totally voluntary? That's a statement? 10 11 Q. What's that? 12 Α. Are you making a statement or asking a 13 question? 14 Q. Yeah. Is a land swap totally voluntary? Of course. 15 Α. 16 Different companies have different development Q. 17 objectives. Is that a fair statement? That is a fair statement. 18 Α. 19 And were you here when Mr. Cude was testifying? Q. 20 I was. Α. 21 Didn't you hear him say that Mewbourne is not Q. 22 opposed to longer laterals in the right circumstances? 23 I did hear him say that. Α. 24 The reason I'm asking is in part of your Q.

testimony, you said Mewbourne doesn't like longer

25

- 1 laterals. Didn't you say that?
- 2 A. It appears they do not like longer laterals
- 3 maybe perhaps unless they're on this side of the --
- 4 unless they're in a compulsory pooling hearing which
- 5 favors them for saying they want longer laterals.
- 6 Q. And you also sat here through the hearing and
- you heard Mr. Mitchell testify that Mewbourne has been
- 8 working on this prospect since January of 2015, correct?
- 9 A. I have.
- 10 Q. So they have a lot of time and effort and money
- invested in this prospect already?
- 12 A. As do we.
- 13 Q. And if your applications are denied, you have
- 14 the perfect right to propose to people in the north
- where you could do one or one-and-a-half or two-mile
- 16 laterals; could you not?
- 17 A. The NMOCD allows people to propose laterals, so
- 18 yes.
- 19 Q. You would not be precluded from drilling --
- 20 A. We would not.
- Q. -- to the north, starting in Section 10 and
- 22 drilling to the north line?
- 23 A. We could drill in Section 10 to the north. The
- 24 question becomes: What is your working interest, and
- 25 does it make sense to operate it?

Okay. Well, in your proposed well, you only

- 2 control about 22 or 25 percent working interest; is that
- 3 correct?
- 4 A. That is correct. And for the circumstances of
- 5 the ownership in this area, that is a substantial
- 6 ownership.
- 7 Q. Have you talked with any other horizontal Bone
- 8 Spring operators in this township regarding their
- 9 development plans?
- 10 A. I don't know if I can state all the other
- operators in this section, so I don't know the answer to
- 12 that question.
- 13 Q. Any operators in this township?
- 14 A. In this township? I don't know if I can answer
- 15 that question without referencing something else.
- 16 Q. Just out of curiosity, what is the name of the
- 17 location of the Wolfcamp well in Eddy County?
- 18 A. The name and location of our Wolfcamp well --
- 19 Q. Yes, sir.
- 20 A. -- is the Cypress 1H, in Section 9 of -- I
- 21 think it's going to be 23 South, 27 East.
- MR. ZIMMERMAN: Yes.
- Q. (BY MR. BRUCE) You signed up very few people
- 24 for your proposed mile-and-a-half laterals. If you
- eventually succeed in your cases, then you'll have to

- 1 apply for a federal APD; is that correct?
- 2 A. That's correct.
- 3 Q. Pretty time-consuming, isn't it?
- 4 A. Yes. The BLM process takes months.
- 5 Q. In the meantime, reserves wouldn't be produced?
- A. Reserves won't be produced until the well is
- 7 drilled.
- 8 Q. Uh-huh. Isn't there a value -- a time value of
- 9 money?
- 10 A. There's always a time value of money.
- 11 Q. If you were producing one of these wells today,
- 12 it would be better than drilling one a year and a half
- 13 from now?
- 14 A. Yes. My understanding was that the compulsory
- 15 pooling authorization is only valid for a year.
- 16 O. Excuse me?
- 17 A. My understanding is that the compulsory pooling
- 18 authorization is only valid for a year.
- 19 Q. Unless you get a valid extension from the OCD;
- 20 isn't that correct?
- 21 A. I'll defer to my attorneys.
- Q. Why were the contingencies removed from Black
- 23 Mountain's AFEs?
- A. They were removed because we didn't feel like
- 25 we needed them.

1 Q. So you haven't drilled a well in New Mexico,

- 2 and you don't think -- you know it all? You don't
- 3 envision any drilling or operational problems?
- A. No. I'm not saying that we know it all by a
- 5 long stretch. But I will say that an AFE is simply an
- 6 estimate of the cost. It's not the actual cost. And an
- 7 AFE is an AFE. So if you have contingencies or not,
- 8 it's not material.
- 9 Q. Looking at page 8 of your Exhibit 6, how many
- 10 horizontal wells in New Mexico have produced for 50
- 11 years?
- 12 A. How many wells have produced for 50 years?
- 13 Q. How many horizontal wells in New Mexico have
- 14 produced for 50, 5-0, years?
- 15 A. I would say the same number of wells that were
- 16 drilled 50 years ago, which is zero.
- 17 Q. So this recovery stuff is speculative at this
- 18 point. When were the -- I mean, you're an experienced
- 19 engineer. When were horizontal wells first starting to
- 20 be developed in southeast New Mexico? How many years
- 21 **ago?**
- 22 A. I couldn't tell you the exact year, but I would
- 23 estimate somewhere around 2008.
- I mean, let me be clear about this
- 25 illustrative diagram. It doesn't matter if the wells

1 decline more severely and have a shorter life or not.

- 2 This concept is true no matter what the well life is.
- 3 So if you have a steeper decline and wells only last 20
- 4 years, this concept still works.
- 5 Q. Okay. Well, then let's go to your Exhibit 4 --
- 6 I mean page 4 of your Exhibit 6. Excuse me. And the
- 7 first well you have listed is the Antelope well. Is
- 8 that a Mewbourne well?
- 9 A. Yes, it is.
- 10 Q. And you show remaining oil reserves of 32,000
- 11 barrels?
- 12 A. Yes. That's the results of our decline curve.
- 13 Q. And that well is about a year-and-
- 14 three-quarters years old right now, correct?
- 15 A. It was spud in June of 2015. So --
- 16 Q. Maybe a year and a half.
- 17 A. Sounds about right.
- 18 Q. Are you -- so you're projecting that that well
- 19 will only produce another year and a half, maybe two
- 20 years?
- 21 A. I don't know. We can go to the exhibit.
- Q. Well, are you aware that that well is still
- 23 producing about 80 barrels a day?
- 24 MR. HALL: 24.
- 25 THE WITNESS: Slide 24? Is that 24 or --

- 1 MR. BRUCE: 27.
- 2 MR. HALL: Mine's not current.
- 3 Q. (BY MR. BRUCE) 27, Mr. McCracken. Sorry about
- 4 that.
- 5 A. Slide 27 shows the decline forecast for the
- 6 Antelope 9 well.
- 7 Q. Uh-huh. My eyesight isn't good, but it looks
- 8 like -- is the blue oil?
- 9 A. There is no -- blue would be water.
- 10 Q. Green?
- 11 A. Green is going to be oil.
- 12 Q. It appears to be cycling -- so what you're
- 13 saying is the Antelope well isn't going to produce for
- 14 50 or even 31 years on this plat. It's going to produce
- 15 three years?
- 16 A. We estimate an economic limit. Maybe six more
- 17 years, once a re-frac is done or something to stabilize
- 18 the decline.
- 19 Q. So for your page 4 of this exhibit, you picked
- 20 a pretty poor representative well, I would say.
- 21 A. For page 4 of this exhibit, I picked all of the
- 22 offset 2nd Bone Spring wells that were close to the
- 23 mile-and-a-half long lateral wells.
- Q. Okay. But in looking at page 4, you know, the
- 25 Stratocaster wells -- I mean, you have cums to date for

the Mewbourne well of 119,000 and only 32,000 remaining.

- 2 And take the second Stratocaster well, which is an older
- 3 well. It's produced 84, but you're showing at 158,000.
- 4 Kind of the same thing with the first Stratocaster well,
- 5 right?
- 6 A. Yes. So you can look at the decline curves and
- 7 see the basis for our estimate.
- 8 Q. But, again, you know, EURs are not an exact
- 9 science, are they?
- 10 A. No. There is some room for adjustment based
- 11 upon interpretation of the declines, but they do not
- 12 vary wildly.
- Q. And there are more than seven 2nd Bone Spring
- wells in this township?
- 15 A. In the Township? Yes.
- 16 My attempt here is to make a display of
- 17 something that is most geologically representative,
- 18 which means we have to select wells that are in a very
- 19 tight compass of development. And I've not only shown
- 20 the scales of lateral length for this year area but also
- 21 two other areas, and it just validates the industry
- 22 known phenomenon, that longer lateral length leads to
- 23 more EUR.
- Q. Thank you.
- MR. BRUCE: No more questions, Mr.

- 1 Examiner.
- 2 EXAMINER GOETZE: Would you like an
- 3 opportunity?
- 4 MR. McMILLAN: (Indicating.)
- 5 EXAMINER GOETZE: Okay. Mr. Jones?
- 6 CROSS-EXAMINATION
- 7 BY EXAMINER JONES:
- 8 Q. Is the drill direction north to south very
- 9 important here, or could you drill south to north?
- 10 A. I think you can go either way. The main reason
- 11 we want to go north to south right here is just that
- 12 potential for that faulting in the southeast -- the
- 13 southeast of Section 15, and we are geosteering -- if
- 14 you cross a fault, there is a good chance you're going
- 15 to land out of zone, and then that also then limits your
- 16 effective lateral length.
- 17 Q. I noticed both you and Mewbourne were going
- 18 north to south.
- 19 And your sand concentration, it looks like
- 20 it's pretty consistent out here, but we're hearing
- 21 stories that higher sand concentration, especially down
- in the Haynesville, you know, is a big -- may be a big
- 23 advantage. Were you looking at that?
- A. Absolutely. We pay a lot of attention to the
- 25 proppant intensity. I could prepare a lot more

1 exhibits. We just went through a marketing process that

- 2 shows that higher proppant intensity fractures increase
- 3 your EUR. People are probably recognizing that first in
- 4 the Wolfcamp, and they're now slowly starting to move
- 5 that into the Bone Spring.
- 6 Q. Okay. It looks like there is a big trend here
- 7 to drill north-south. So is your actual stresses that
- 9 you would -- actually, if you went ahead and measured
- 9 your horizontal stress directions, is there a big
- 10 difference between the second and the third maximum
- 11 stress? I mean the first being the vertical.
- 12 A. Right. Right.
- 13 **Q.** So --
- 14 A. Being a small operator, we don't have access to
- 15 proprietary data to help us understand that. Instead,
- 16 we take kind of a pragmatic approach and look at
- 17 operators that have developed both more south and
- 18 east-west. And we've seen in portions of the Basin
- 19 where north-south is clearly better. We've seen
- 20 portions of the Basin where east-west is better, some
- 21 places where it doesn't matter. In this vicinity, there
- 22 are not enough wells that have been drilled in both
- 23 orientations with the same sort of completions as to
- 24 draw a firm conclusion, in my opinion.
- Q. Okay. What about facilities out here? Because

- 1 we became aware that people applying for compulsory
- 2 pooling, it's not necessarily for the tank battery and
- 3 all that stuff. You know, so are you guys going to have
- 4 to -- are you going to be able to have some efficiencies
- 5 by putting all your wells in the center of this Section
- 6 10?
- 7 A. Yes. Absolutely. That's a big advantage for
- 8 the long laterals and the pad development, to
- 9 consolidate your facilities and not overbuild it, which
- 10 helps you, you know, be more efficient in your
- 11 economics.
- 12 Q. Okay. I'm going to stop.
- 13 CROSS-EXAMINATION
- 14 BY EXAMINER GOETZE:
- 15 Q. I just have one question. You present a
- development plan in your Exhibit 6, on slide three. How
- 17 realistic and what kind of a time frame would you be
- looking at to, say, at the initial development of the
- 19 second -- excuse me -- the third -- the other stages of
- 20 this would even be considered or implemented?
- 21 A. We like Wolfcamp A a lot. I'll lump in there
- 22 the X-Y. So I think that would be a near term target.
- 23 2nd Bone Spring is also strong. Wolfcamp B is probably
- 24 a little bit father out in our development plan. So I
- 25 would order them in that order. Partially how this

1 plays out is going to say how much staggering we're

- 2 going to do in the 2nd Bone Spring, you know, as far as
- 3 if we have real divided ownership here. Where everyone
- 4 has 160-acre units, it's going to be really hard to get
- 5 some additional pooling in to make those other laterals
- 6 happen on the staggers. But that would be our priority
- 7 order: The 3rd Bone and Wolfcamp A and the 2nd Bone.
- 8 EXAMINER GOETZE: I have no further
- 9 questions for this witness.
- 10 Both of you have gone through all your
- 11 witnesses. We're at the end of --
- 12 What? You've got your finger to your nose.
- 13 Oh, come on.
- 14 MR. BRUCE: You wouldn't let me ask his
- 15 landman something, so I'd like to put Mr. Mitchell up
- 16 for three questions only.
- 17 EXAMINER GOETZE: Three questions? So are
- 18 you saying you're going to have rebuttal?
- MR. BRUCE: Rebuttal.
- 20 EXAMINER JONES: You need to start eating
- 21 lunch, Phil.
- 22 EXAMINER GOETZE: I don't need to eat
- 23 lunch.
- Okay. At this point we're done with your
- 25 witness here. You may step down.

Page 146 You wish to put up one more witness. 1 EXAMINER JONES: Thank you, Dr. McCracken. 2 EXAMINER GOETZE: Yeah. Thank you, Doctor. 3 THE WITNESS: Thank you. EXAMINER GOETZE: Bring your witness up. 5 I would also like to point out in this 6 hiatus that an attendant of the audience wishes to make 8 a pro se statement, and we will, at the end of your two efforts, let this man have the opportunity to make his statement part of the record. 10 MR. BRUCE: Yes, sir. 11 12 EXAMINER GOETZE: Continue, Mr. Bruce. 13 COREY MITCHELL, after having been previously sworn under oath, was 14 15 recalled and questioned and testified as follows: 16 17 18 19 20 21 22 23 24 25

1 DIRECT EXAMINATION

- 2 BY MR. BRUCE:
- Q. Mr. Mitchell, the testimony from Black Mountain
- 4 is that Seeligson Oil Company was signing their JOA.
- 5 But did Seeligson submit a letter of support to
- 6 Mewbourne?
- 7 A. Yes, sir. Excuse me. Yes, sir, they did.
- 8 Q. Is that contained within Exhibit 9?
- 9 A. Yes, sir, it is.
- 10 Q. And does Seeligson own in both sections?
- 11 A. Yes, sir, they do.
- 12 Q. Are they the only Section 15 interest owner who
- 13 Black Mountain claims signed their JOA?
- 14 A. Yes, sir, it is.
- 15 EXAMINER GOETZE: Yeah. You get an
- 16 opportunity.
- MR. HALL: Well, no.
- 18 EXAMINER GOETZE: What do you have?
- 19 MR. HALL: Counsel in chief has a kid to be
- 20 picked up.
- 21 EXAMINER GOETZE: You've got a life?
- 22 (Laughter.)
- MR. HALL: Can he make a call?
- 24 EXAMINER GOETZE: Please.
- 25 At this point we'll take a break.

- 1 And you're done?
- 2 MR. BRUCE: I think I only have one more.
- 3 EXAMINER GOETZE: Well, you asked three --
- 4 four questions. We can have the court reporter --
- 5 MR. BRUCE: Well --
- 6 EXAMINER GOETZE: Off the record for now.
- 7 (Recess, 5:33 p.m. to 5:36 p.m.)
- 8 EXAMINER GOETZE: We're back on the record.
- 9 So you have one more question, Mr. Bruce?
- 10 Q. (BY MR. BRUCE) Referencing joinder,
- 11 Mr. McCracken stated that they had about 25 percent of
- 12 the acreage, or maybe it was Mr. Zimmerman. What
- 13 percentage of the working interest commitment in Section
- 14 15 does Mewbourne have?
- 15 A. We have approximately 74 percent, with Black
- 16 Mountain having 24 percent, so a little less than 2
- 17 percent is uncommitted. And our 74 percent
- 18 approximately -- it's approximately 90 percent of the
- 19 owners in the section.
- 20 Q. Thank you. That's it.
- 21 EXAMINER GOETZE: Mr. McMillan?
- MR. McMILLAN: Nothing. Let's end this.
- 23 EXAMINER GOETZE: On that note, we no
- 24 longer need this witness.
- So we have a pro se statement.

1 MR. ADAMS: Yes, sir.

- 2 EXAMINER GOETZE: Come forward, have a
- 3 seat, identify yourself and be sworn in by the court
- 4 reporter.
- 5 MR. ADAMS: I will do that.
- 6 EXAMINER GOETZE: Please proceed.
- 7 MARK ADAMS,
- 8 after having been first duly sworn under oath,
- 9 testified as follows:
- 10 MR. ADAMS: My name is Mark Adams. I'm an
- 11 attorney with the Santa Fe office of the Rodey Law Firm.
- 12 I'm here on behalf of Patterson Properties and CML
- 13 Exploration, and they asked me to express their very
- 14 strong support for the Mewbourne applications here.
- 15 They think that -- they are interest owners in the
- 16 property involved and have an interest in having the
- 17 Mewbourne applications approved.
- 18 EXAMINER GOETZE: Very good. Thank you.
- 19 MR. ADAMS: You're welcome. Thank you.
- 20 EXAMINER GOETZE: On that note, we have --
- 21 EXAMINER JONES: Closing statements?
- 22 EXAMINER GOETZE: Yeah. But I think -- do
- 23 you want to do a closing statement?
- MR. McMILLAN: 20 minutes or so?
- 25 (Laughter.)

1 EXAMINER JONES: You both have the

- 2 opportunity, and we leave it to your option.
- 3 MR. HALL: Can you resist?
- 4 MR. BRUCE: I can resist if Mr. McMillan
- 5 can resist.
- 6 MR. McMILLAN: Mine was drafted for me, so
- 7 let me review it.
- 8 MR. BRUCE: I think you've heard the
- 9 positions of the parties.
- MR. McMILLAN: Yes. Nothing new here.
- 11 You've heard our stories.
- 12 EXAMINER GOETZE: On that point, you have
- 13 requested a continuance?
- MR. McMILLAN: Indeed. Indeed.
- 15 EXAMINER GOETZE: What do you think would
- 16 be sufficient time to deal with this notification issue?
- MR. McMILLAN: Well, I think we're just
- 18 publishing, and as I understand it, it's a ten-day --
- 19 ten-day period.
- 20 EXAMINER GOETZE: Ten business days.
- MR. McMILLAN: Ten business days. Could we
- 22 continue until April 27th?
- 23 EXAMINER GOETZE: Mr. Bruce?
- MR. BRUCE: I've been fighting continuances
- 25 all along, but I know we're not getting an order out by

Page 151 1 then. EXAMINER GOETZE: In light of the status of 2 most everything, I don't see anything pressing as far as 3 a rig arriving on site. Let's go ahead and let's give this a final date of April 27th and --5 EXAMINER JONES: For all six cases? 6 7 EXAMINER GOETZE: All six cases will be brought back on the 27th. At that point, hopefully we 8 9 can get it under advisement. 10 MR. McMILLAN: Sure. EXAMINER GOETZE: Cases 15600, 15601 and 11 15602 have been continued to April 27th. 12 Thank you very much, gentlemen. It's quite 13 a lot to think about. 14 MR. McMILLAN: Thank you for your patience 15 with all of us. 16 EXAMINER GOETZE: Only thing you get for 17 free around here is procrastination and patience. 18 (Case Numbers 15628, 15629, 15630, 15660, 19 15601 and 15602 conclude, 5:41 p.m.) 20 21 22 23

5602

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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.
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21	MARY C. HANKINS, CCR, RPR
22	Certified Court Reporter
23	New Mexico CCR No. 20 Date of CCR Expiration: 12/31/2017
24	Paul Baca Professional Court Reporters

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