

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 ASCENT ENERGY, LLC	CASE NOS. 15992,
FOR APPROVAL OF A NONSTANDARD	15993,
SPACING AND PRORATION UNIT AND	15994,
COMPULSORY POOLING, LEA COUNTY,	15995,
NEW MEXICO.	15996

AMENDED APPLICATION OF CENTENNIAL RESOURCE PRODUCTION, LLC FOR A NONSTANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.	CASE NO. 15988
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APPLICATION OF CENTENNIAL RESOURCE PRODUCTION, LLC FOR A NONSTANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.	CASE NOS. 16016, 16017, 16018
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REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

March 15, 2018

Santa Fe, New Mexico

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

This matter came on for hearing before the New Mexico Oil Conservation Division, William V. Jones, Chief Examiner, Leonard Lowe, Technical Examiner, and David K. Brooks, Legal Examiner, on Thursday, March 15, 2018, at the New Mexico Energy, Minerals and Natural Resources Department, Wendell Chino Building, 1220 South St. Francis Drive, Porter Hall, Room 102, Santa Fe, New Mexico.

REPORTED BY: Mary C. Hankins, CCR, RPR
New Mexico CCR #20

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1 (9:04 a.m.)

2 EXAMINER JONES: Okay. Let's go on the
3 record this morning.

4 This is a special examiner hearing for
5 Thursday, March 15th, 2018. I'm William V. Jones.

6 This is David Brooks for the Examiner, and
7 Leonard Lowe is going to be assisting today with the
8 examiner hearing.

9 And I understand we've got nine cases on
10 the docket. Let's call the -- let's call all the cases,
11 and then we'll talk about pre -- pre-hearing stuff.

12 For the Ascent cases, these are Case
13 Numbers 15992, 15993, 15994, 15995 and 15996. They're
14 all the application of Ascent Energy, LLC for approval
15 of a nonstandard spacing and proration unit and
16 compulsory pooling in Lea County, New Mexico.

17 For those cases, call for appearances.

18 MR. BRUCE: Mr. Examiner, Jim Bruce of
19 Santa Fe representing the Applicant. I have three
20 witnesses.

21 MR. FELDEWERT: Mr. Examiner, Michael
22 Feldewert, with the Santa Fe office of Holland & Hart,
23 appearing on behalf of Centennial Resource Production,
24 LLC. And I have four witnesses here today.

25 MS. BRADFUTE: Mr. Examiner, Jennifer

1 Bradfute, with the Modrall Sperling Law Firm. And I do
2 not have any witnesses. I'm appearing on behalf of
3 Cimarex Energy Co.

4 EXAMINER JONES: Okay. Let's go ahead and
5 we'll call the other cases. These are the Centennial
6 cases. These are Case Numbers 15988 and 16016, 16017
7 and 16018. Case Number 15988 is the amended application
8 of Centennial Resource Production, LLC for a nonstandard
9 spacing and proration unit and compulsory pooling in
10 Eddy County -- Lea County, New Mexico, and all of the
11 other four -- other three cases are applications of
12 Centennial Resource Production, LLC for a nonstandard
13 spacing and proration unit and compulsory pooling in Lea
14 County, New Mexico, for all four of the Centennial
15 cases.

16 Call for appearances.

17 MR. FELDEWERT: May it please the Examiner,
18 Michael Feldewert, with the Santa Fe office of Holland &
19 Hart, appearing on behalf of the Applicant. And as I
20 said, I have four witnesses here today.

21 MR. BRUCE: Mr. Examiner, Jim Bruce
22 representing Ascent Energy, LLC. And I have the same
23 three witnesses.

24 MS. BRADFUTE: Mr. Examiner, Jennifer
25 Bradfute, with the Modrall Sperling Law Firm, on behalf

1 of Cimarex Energy Company. And I have no witnesses.

2 EXAMINER JONES: You're sitting over there,
3 but is Cimarex allies with -- are you going to bring
4 that out in the --

5 MS. BRADFUTE: As far as the position goes,
6 Cimarex takes a neutral position in both cases. It
7 owns -- it's lessee of record in the east half of
8 Section 7, Township 21 South, Range 33 East, and it
9 originally had concerns with surface locations located
10 on its leasehold interests. Those concerns are
11 alleviated right now. There is a deal in principle
12 that's been entered into with Ascent. We're not aware
13 of any plans for surface locations on Cimarex's lease by
14 Centennial. At this point in time, however, Cimarex
15 would like to still reserve its right to appeal in the
16 event plans change or agreements aren't executed.

17 EXAMINER JONES: Will all the witnesses who
18 are going to testify today please stand?

19 And the court reporter will swear the
20 witnesses, and we'll get the names later.

21 (Mr. Smith, Mr. Daniele, Mr. Thompson,
22 Mr. Morby, Mr. Metz, Mr. Zink, Mr. Robins
23 sworn.)

24 EXAMINER JONES: Okay. Mr. Brooks, you
25 want to take over here as far as the pre-hearing?

1 EXAMINER BROOKS: I don't recall that I
2 have anything that I need to be concerned about now. I
3 thought we got that taken care of -- oh, you mean --

4 EXAMINER JONES: Yeah.

5 EXAMINER BROOKS: No. The notice issues
6 are on the other case.

7 EXAMINER JONES: Yeah. Well, the business
8 about --

9 Would anyone like to make an opening
10 statement?

11 MR. FELDEWERT: Certainly. Yeah.

12 OPENING STATEMENT

13 MR. FELDEWERT: Mr. Examiner -- or
14 Examiners, this morning I've handed you Order Number
15 R-14518, which was issued by the Division in December of
16 2017. It was initially subject to a de novo appeal,
17 which has been dropped now. And as I understand, this
18 is the latest case discussing the factors that the
19 Division will consider when they have competing pooling
20 applications for acreage like we have here today.

21 The acreage at issue here is the east half
22 of Section 18. And what's at issue here in the east
23 half are two 160-acre stand-up spacing units. Each
24 party holds a 50-percent interest, so the ownership is
25 the same. Each party proposed stand-up wells, so there

1 is no debate about the orientation. Both parties are
2 targeting the Bone Spring Formation and the Wolfcamp
3 Formation.

4 But when I go to page 6 of this order,
5 which I invite you to turn to, it lays out in ordering
6 paragraph 16 what the Division considers precedent in
7 examining these competing pooling applications, and it
8 has subparagraphs A, B, C, D, E and F. So in
9 preparation for this case, I went through this, and the
10 first thing that it notes in paragraph 16A is, are there
11 any differences in any proposed well location. Okay?
12 There is a major difference here that you will see that
13 favors Centennial.

14 Ascent is going to drill north to south,
15 assuming they get their agreement signed up with
16 Cimarex.

17 Centennial is drilling south to north from
18 acreage in which they already have agreements in place,
19 have already staked the wells. And the reason they're
20 drilling south to north is they can drill toe up and
21 stay within the target zone. And they're going to
22 testify that that is important for extending the life of
23 the well in recovering the reserves.

24 The second thing that's important about the
25 well location and the completion design is that

1 Centennial has filed for nonstandard locations
2 administratively. They filed administratively for
3 nonstandard locations for the first take point and the
4 last take point, to be 100 feet off of that northern and
5 southern boundary. They've done that because it
6 increases your lateral length by 460 feet, almost a
7 10 percent increase. And it allows a recovery of
8 reserves that otherwise you're not going to get to
9 because of the offset. So that's been filed.

10 If you look at paragraph A, the other
11 factor it talks about is who has the prospect of
12 efficiently recovering the oil, the recovery plan.
13 Again, we have a major difference here favoring
14 Centennial.

15 Centennial has proposed two 3rd Bone Spring
16 wells. They proposed two Wolfcamp A wells. Those zones
17 are right next to each other. Okay? And the reason
18 they've done that is they're going to develop those
19 zones simultaneously, and they're going to talk about
20 why that's important. They've got their wells spaced
21 within the zone, and they've got their wells tagged in a
22 wine-rack pattern for the very purpose of simultaneous
23 development, simultaneous drilling and completion, so
24 that you don't have a completion effect that would
25 otherwise occur if you developed them independently. So

1 they have planned that way.

2 They also are developing the lower zone
3 before developing the upper zone, the 2nd Bone Spring,
4 the 1st Bone Spring. Why do you do that? If you -- and
5 the reason you do that, they're going to say, is because
6 if you're a company that's actually going to develop
7 this acreage and if you're a company that's here to
8 fully develop that acreage, that's how you do it. You
9 start in the lower zones and you move up, because each
10 of those wells you penetrate into the lower zone allows
11 you an examination of the upper zone, helps you
12 determine the viability of that zone and also, more
13 importantly, helps you find a good landing point.

14 So if you're a company like Centennial that
15 is going to develop this fully and bought it to develop
16 it and has plans to develop, that's how you start.
17 Okay? So there are some major differences there,
18 because Ascent doesn't have those kinds of plans.
19 They've got scattered wells all over the place, no real
20 plan, from what we can tell, as to what they're doing.

21 And we're going to have -- a geologist and
22 a reservoir engineer is going to testify that if you do
23 it like they're doing it, it's going to result in waste.

24 Paragraph B, comparison of the risk. It
25 appears the same for both parties. No issues there.

1 Paragraph C. There it talks about
2 negotiations, your well proposals, your negotiations,
3 what occurred prior to pooling. Again, that favors
4 Centennial. We're going to present you a timeline.
5 It's in our Exhibit Number 20 [sic]. You might want to
6 refer to that occasionally as to what occurred here.

7 Essentially, one of the reasons our
8 witnesses are going first is because we were the first
9 to properly propose a well with the correct spacing
10 unit, and we were the first to file a pooling
11 application after we engaged in efforts to reach a
12 voluntary agreement. So before filing our pooling
13 application, we properly proposed the well. We sent
14 them a JOA. We held meeting with Ascent, offered trades
15 of acreage that I thought were pretty reasonable and
16 they thought were pretty reasonable, and each time, they
17 were simply rejected by Ascent with no counteroffer,
18 zero.

19 In between the time that Ascent finally
20 proposed a well and filed its pooling application, in
21 that period of time, they didn't make a single offer to
22 Centennial. All they did was just reject Centennial's
23 offers.

24 So we're the first to timely and properly
25 propose the well with the right spacing unit. We're the

1 first to file a timely pooling application, and we
2 engaged in good-faith efforts to reach an agreement.

3 Ascent, they've proposed five wells. They
4 finally got around to properly proposing those wells one
5 day before they filed their pooling application. They
6 didn't even do -- they didn't even file a timely pooling
7 application. They proposed those wells one day before
8 they filed a pooling application. So all of those
9 factors, the negotiations, was it properly done, you're
10 going to see that that favors Centennial.

11 Paragraph D, "The ability of each party to
12 prudently operate the property with an FI to prevent
13 waste." Okay. Ascent, I'll submit to you, is a lot
14 like Black Mountain in this case that you're looking at
15 right now. They have absolutely zero prior experience
16 in drilling horizontal wells in New Mexico, a big, fat
17 zero. They're a private equity company. They aggregate
18 acreage. They get a bunch of permits. Okay? They
19 haven't done anything yet. We can kind of guess what
20 they're going to do. That's what they do. They acquire
21 it. They acquire the permits, try to flip the acreage.
22 Okay? They acquired their acreage in the fall of 2016,
23 their first step in New Mexico, so that's almost a year
24 and a half ago. They haven't drilled a single
25 horizontal well. All they've gotten is permits.

1 Their AFEs -- we're going to show you, when
2 you look at their AFEs that they submitted with their
3 well proposals, they either were not aware or they don't
4 care about the casing requirements that are necessary in
5 this area. This is the Capitan Reef. This is the
6 potash area. Their drilling plan under their AFE, from
7 what we can tell, doesn't even account for the extra
8 casing string that the BLM requires. These are federal
9 minerals. They've got to have an extra casing string
10 when producing the Bone Spring. It's not in their AFE.
11 They don't account for the increased pressure that
12 you're going to get when you get into the Wolfcamp.
13 They don't have the extra casing string in the Wolfcamp
14 in their AFE to account for those pressures. And then
15 all the -- for a Wolfcamp well, all the extra size
16 uphole -- I'm not an expert on this; we've got a guy
17 that's going to talk about that -- they don't account
18 for all that. It's not in their AFE. So they're not
19 equipped, and they don't account for the cost to
20 accommodate the casing that's necessary.

21 Also in their AFE, they don't account for
22 the flowback facilities, the water and gas takeaway
23 costs, the air emission facilities and costs that are
24 associated with that. None of that's in their AFE.

25 And they have no vendors. They've got no

1 experience in New Mexico. They've got no vendors to
2 deal with water, gas takeaway, all of which are major
3 issues now. Okay?

4 Big contrast: Centennial's witnesses are
5 going to tell you they've drilled over 100 Bone Spring
6 and Wolfcamp wells in Texas. They came to New Mexico
7 about a year and a half, two years ago --

8 Is that right?

9 -- and brought that experience to
10 New Mexico. They've already drilled five wells.
11 They're in the process of drilling two more right now.
12 Okay? They are here to develop. They're not here to
13 flip acres. They're here to develop. That's why they
14 bought this acreage. They have rigs. They have
15 experienced frac crews. They have vendors. They have
16 service providers. They know the casing requirements.
17 It's built into their AFE. They know the costs that are
18 associated with that. It's in their AFE. They know the
19 costs associated with the flowback facilities and the
20 gas takeaway and the water takeaway. It's in their AFE.
21 They know the costs that are associated with the air
22 emissions equipment. It's in their AFE.
23 So they have the experience. And they have
24 examples that I will also show you -- and we're going to
25 go through those -- that their completion process that

1 they utilize is proven and successful. It has worked
2 very well in Texas, and it has shown great wells here in
3 New Mexico when you compare to the prior operators. So
4 they know what they're doing. They have a completion
5 process with a frac crew that is proven.

6 And so when you look at this factor, who is
7 going to prudently operate, who is going to best operate
8 the acreage, that factor exclusively weighs in favor of
9 Centennial, clearly. Okay?

10 Then you get to paragraph E, AFE costs. So
11 what are you going to hear from them? Oh, my goodness,
12 our AFEs are higher. Yes, they're higher. They're
13 higher because we built in the casing costs for the Bone
14 Spring and the Wolfcamp. We built in the flowback --
15 the facilities needed for flowback, for the gas
16 takeaway, for the oil takeaway. We built into our AFEs
17 the air emission facilities that are necessary. So yes,
18 our AFEs are higher. And they're higher because we know
19 what we're doing out there, and we built that into our
20 AFEs, and they did not. Okay?

21 So -- and then also the other factor that
22 we're going to talk about here is they have no
23 experience. They don't know their vendor costs. Our
24 AFEs are based on actual vendor costs, our experience.
25 So yes, their AFEs are lower than ours, but there is a

1 very good reason for that. There is a very good reason
2 for that. So that factor should not weigh against us.

3 Paragraph F. That's the mineral interest
4 held by each party. That's the same. That's the same.
5 It's 50 percent each. We own the northeast quarter.
6 It's a federal lease. They own the southeast quarter.
7 It's a state lease. So that's a nonfactor.

8 So what do we have here? We're going to
9 present four witnesses. And at the end of the day, this
10 evidence is going to establish that the relevant factors
11 substantially weigh in our favor. We're the first to
12 properly propose a well at the right spacing unit.
13 We're the first to -- we're the only ones that, you
14 know, submitted offers to try to get this resolved,
15 trades that they'll talk about that they just simply
16 rejected and no counteroffer. We're the first to file a
17 pooling application after engaging in those good-faith
18 efforts to reach agreement. We have the experience.
19 We've got the best plan to develop this. And I'm
20 talking fully develop this, not a one-and-done, you
21 know, to fully develop this from the top -- from the
22 bottom up, okay, and do it prudently and properly with
23 the experience that they have brought over here from
24 Texas, and they know how to do it right. That's what
25 the evidence is going to show you. And when you apply

1 that against these factors, that means our applications
2 should be and approved theirs should not be.

3 EXAMINER JONES: Mr. Bruce?

4 OPENING STATEMENT

5 MR. BRUCE: Mr. Examiner, I'm not going to
6 go into great detail for the most part until the
7 hearing. I'll make a few comments. But, frankly, once
8 you go through these lists and see what Ascent proposes,
9 you'll realize that most of what Mr. Feldewert said is
10 baloney.

11 My client has experience in drilling and
12 completing wells. It hasn't drilled a well yet. Fine.
13 But it has spent a year and a half getting a lot of
14 things in place to commence drilling wells. Period.
15 There is no problem with that. What are you going to
16 do? Prevent new operators from coming into the state?
17 Is that what the OCD's job is? If you haven't drilled a
18 well in the state, you can't drill a well in the state?
19 Sounds kind of foolish to me.

20 As the OCD knows, there have been dozens of
21 new companies that have come into the state of
22 New Mexico in the last couple of years. Mr. Feldewert
23 is representing one right now. I'm representing one
24 right now. I've represented five or six others.
25 They've got to get in and start drilling. It doesn't

1 mean they don't know what to do. They're talking about
2 importing experience from Texas. Yeah. That's what you
3 do. You import experience from where you've already
4 operated. Big deal.

5 Insofar as making the first big proposal,
6 sorry, that was Ascent who did that. I'll show -- when
7 they go through their exhibits, I'll show you some
8 defects in their proposals.

9 In comparison of each of the ability to
10 operate, we have a sound, solid crew who knows how to
11 drill and operate wells.

12 Insofar as differences in the AFE costs,
13 Centennial says, Oh, they haven't accounted for the four
14 strings. Our AFEs account for the four casing strings.
15 Period. Frankly, their costs are excessive. They're
16 higher than anyone else's in this area, and that favors
17 Ascent.

18 When you go through all the things, after
19 all the testimony, you will see that Ascent's
20 application should be granted.

21 EXAMINER JONES: Ms. Bradfute?

22 MS. BRADFUTE: Mr. Examiner, I just wanted
23 to clarify one point. Cimarex does not take a position
24 as to either operator's proposal, but they are satisfied
25 with the deal that they've entered into in principle

1 with Ascent. As long as that paperwork is signed, they
2 have no objection to Ascent's proposed development
3 plans.

4 EXAMINER JONES: Very well.

5 Mr. Feldewert, you want to present your
6 case?

7 MR. FELDEWERT: Yes, sir. Call our first
8 witness.

9 GAVIN SMITH,
10 after having been previously sworn under oath, was
11 questioned and testified as follows:

12 DIRECT EXAMINATION

13 BY MR. FELDEWERT:

14 Q. Would you please state your name, identify by
15 whom you're employed and in what capacity?

16 A. My name is a Gavin Smith. I'm a landman for
17 Centennial Resource Development.

18 Q. And have your responsibilities while with
19 Centennial included the Permian Basin of New Mexico?

20 A. Yes.

21 Q. And, Mr. Smith, you have previously testified
22 before this Division and been accepted as an expert in
23 petroleum land matters, correct?

24 A. Yes, I have.

25 Q. Are you familiar with the applications that

1 have been filed in these consolidated cases by both
2 parties?

3 A. I am.

4 Q. And are you familiar with the status of the
5 lands in the subject area?

6 A. I am.

7 MR. FELDEWERT: I would retender Mr. Smith
8 as an expert witness in petroleum land matters.

9 MR. BRUCE: No objection.

10 MS. BRADFUTE: No objection.

11 EXAMINER JONES: So qualified.

12 Q. (BY MR. FELDEWERT) Would you please turn to
13 Exhibit Number 1 marked "Centennial" in the black
14 notebook? And first off, Mr. Smith, Centennial Exhibit
15 Number 1, are these the draft C-102s for each of the
16 wells the company has proposed?

17 A. Yes, they are.

18 Q. Okay. Am I correct that there are two 3rd Bone
19 Spring wells and two Wolfcamp wells?

20 A. Correct.

21 Q. What does the company seek under these
22 applications?

23 A. We seek to create four -- create four
24 nonstandard -- 160-acre nonstandard spacing units
25 covering in the east half of Section 18, Township 21

1 South, 33 East in Lea County, New Mexico. For each of
2 those wells, the west half of the east half is the
3 spacing unit for the Horseshoe Fed Com 601H Bone Spring
4 well. The east half of the east half is the spacing
5 unit for the Horseshoe Fed Com 602H Bone Spring well.
6 The west half of the east half is the spacing unit for
7 the Horseshoe Fed Com 701H Wolfcamp well, and the east
8 half-east half is the spacing unit for the Horseshoe Fed
9 Com 702H Wolfcamp well.

10 Q. So the 600s are the 3rd Bone Spring, and the
11 700s are the Wolfcamps?

12 A. Yes, sir.

13 Q. What's the ownership and nature of the acreage
14 in the east half of Section 18?

15 A. Centennial owns the federal lease in the
16 northeast quarter of Section 18, and the southeast
17 quarter is a federal lease owned by Ascent.

18 Q. So a 50/50 ownership at this point in the
19 spacing units?

20 A. Yes.

21 Q. Now, have you been able to identify the pools
22 that are involved for these two formations?

23 A. Yes, sir. They're the Wolfcamp -- or wildcat
24 Wolfcamp Pool and the wildcat Bone Spring Pool.

25 Q. And did you glean that from offsetting wells?

1 A. We did.

2 **Q. Did Mr. --**

3 MR. FELDEWERT: We have not confirmed that
4 with Mr. Kautz, but in case you're interested -- and I'm
5 not going to give the entire number. But the Bone
6 Spring Pool appears to be Pool Code 97895, and the
7 Wolfcamp Pool, wildcat, appears to be Pool Code 98033.

8 EXAMINER JONES: Thank you.

9 MR. FELDEWERT: Again, though, with the
10 caveat that's based on --

11 EXAMINER JONES: The codes usually stay the
12 same. The names change.

13 **Q. (BY MR. FELDEWERT) Mr. Smith, are these**
14 **pools -- and as wildcat pools, are they subject to the**
15 **Division statewide rules for oil wells?**

16 A. They are.

17 **Q. And will the completed interval for each well**
18 **comply with the 330-foot setbacks?**

19 A. As to the lateral lengths for the east -- to
20 the east and west, it will be 330-foot setbacks. As for
21 the north and south, as earlier discussed, we're seeking
22 a nonstandard location administratively to perf 100 feet
23 from the north line and 100 feet from the south line.

24 **Q. And that, then, will allow the company to**
25 **extend the four laterals another 460 feet?**

1 A. It will.

2 Q. And will that allow the company to capture
3 additional stranded reserves that would otherwise be in
4 that north and south --

5 A. Yes.

6 Q. And these are horizontal wells?

7 A. Correct.

8 Q. All right. Does the -- do the draft
9 applications to drill here in Exhibit Number 1, they
10 reflect both location -- proposed locations being 100
11 feet off?

12 A. They --

13 Q. Of the north and south lines of the first take
14 point?

15 A. Yes, sir.

16 Q. Do these also reflect that you intend to drill
17 from an off-lease location?

18 A. They do.

19 Q. And where is that?

20 A. In the north -- really in the north half of the
21 northeast quarter of Section 19, we'll have two
22 surface-hole locations there for both pads.

23 Q. Okay. First off, has the company confirmed
24 that the location of those off-lease pads, given the
25 depth and the curve, would that allow the company to

1 **perforate at 100 feet off of the -- off of the south**
2 **line from those well pad locations?**

3 A. Yes. And our drilling engineer can testify to
4 that later on.

5 **Q. Okay. And does Centennial actually have in**
6 **place the approvals necessary to utilize these off-lease**
7 **surface locations?**

8 A. We do. The lease in Section 19 is a state
9 lease run by Advance Energy Partners. We've entered
10 into a letter agreement with them that will allow us
11 to -- they've given us the right to use those two
12 surface-hole locations on their lease.

13 **Q. Is that letter agreement done?**

14 A. It is done, signed by both parties.

15 **Q. Go ahead.**

16 A. Also, we've received a waiver signed by
17 Intrepid Potash that waives the LMR area in Section 19.

18 **Q. So hold up. We're within the potash area?**

19 A. We are.

20 **Q. We're within an LMR?**

21 A. Yes.

22 **Q. And so it's within the Intrepid Potash?**

23 A. Correct.

24 **Q. And you've received that?**

25 A. We have.

1 Q. Is that reflected in Centennial's Exhibit
2 Number 2?

3 A. It is.

4 Q. Finally, is there -- these are federal
5 minerals. So has the company actually staked the wells?

6 A. We have staked the wells, and we have submitted
7 our notice of staking to the BLM to schedule an on-site
8 with them.

9 Q. Okay. All right. If I then turn to Centennial
10 Exhibit Number 3, is this a timeline of events that you
11 assisted in putting together?

12 A. It is.

13 Q. And does it accurately reflect the events
14 leading up to the hearing here today?

15 A. It does.

16 Q. And before we get to the timeline, does
17 Centennial Exhibit Number 4 contain the well-proposal
18 letters sent by Centennial that are noted in the
19 timeline?

20 A. It does.

21 Q. And there are four of them that are separated
22 within Exhibit Number 4 by yellow sheets?

23 A. Correct.

24 Q. Okay. And it starts with 601 and ends with the
25 proposals for the 702H, correct?

1 A. Yes.

2 Q. Does Centennial Exhibit Number 5 contain the
3 Ascent well-proposal letters that are noted in the
4 timeline?

5 A. It does.

6 Q. Likewise, are they provided by a yellow sheet?

7 A. Yes.

8 Q. Okay. All right. Now, with that said, we're
9 going to kind of be flipping back and forth between
10 these three exhibits. All right?

11 A. (Indicating.)

12 Q. If I look at the timeline here, it notes that
13 on September 26, Ascent actually proposed a 501H well,
14 correct?

15 A. They did.

16 Q. But you've got a note on here that it was with
17 an incorrect east-half 320-acre spacing unit?

18 A. Yes.

19 Q. So if I look, for example, at Exhibit Number 5,
20 this is for their Trucker 501 well, correct?

21 A. Correct.

22 Q. Okay. And the first thing I note is that they
23 have identified the entire east half of Section 18 for
24 this well, up in the "Re" portion?

25 A. That's right.

1 Q. And you've identified the spacing unit as being
2 320 acres?

3 A. That's right.

4 Q. And they indicate, in the second line of this
5 paragraph, that it's going to be a well, as they say, in
6 the Bone Spring Formation?

7 A. Correct. And the AFE further clarifies that
8 it's the 2nd Bone Spring.

9 Q. Okay. And is it true that in this area, for
10 the Bone Spring Formation, you don't have 320-acre
11 spacing units?

12 A. That's correct.

13 Q. And so that would be wrong, right?

14 A. That's right.

15 Q. Secondly, what did you observe about the depth
16 that they have proposed for this well?

17 A. They listed a total vertical depth of 11,120
18 feet, and as I mentioned, the AFE calls this a 2nd Bone
19 Spring well. Also, the AFE references a total vertical
20 depth of 150 feet.

21 Q. So we have the letter saying 100 -- 1120 [sic]
22 feet and the AFE saying 1150 [sic] feet?

23 A. That's correct.

24 Q. Are either of those depths in this area landing
25 in the 2nd Bone Spring Sand?

1 A. They're not. Based on our review, they're
2 landing in the 3rd Bone Spring Carbonate.

3 Q. So we have, in this letter, a wrong spacing
4 unit, right?

5 A. Correct.

6 Q. We've got conflicting depths in this proposal,
7 and neither one of those depths are in the 2nd Bone
8 Spring?

9 A. That's right.

10 Q. If I continue on through this -- stay with this
11 exhibit and I continue on to the last page of this
12 proposal for 501, so before I get to the first yellow
13 sheet, there is a letter dated January 22nd, 2018 from
14 Ascent. So it's the last page in the first set of
15 groupings of 501, before the first yellow sheet. Are
16 you there?

17 A. Uh-huh.

18 Q. Okay. And is that the first time that Ascent
19 identified the spacing unit that they actually intended
20 to dedicate to this well?

21 A. Through a formal proposal, yes.

22 Q. That would be the west half of the east half?

23 A. Correct.

24 Q. And did they, in this letter, clarify the
25 actual depth of the well?

1 A. They do not.

2 Q. In fact, if I go to the last paragraph of this
3 letter, it says they have amended the spacing unit or
4 what they call the contract area of 160 acres, but then
5 the last sentence says, "All other terms and dates of
6 the original proposal remain unchanged," right?

7 A. That's right.

8 Q. So they didn't change the total vertical depth?

9 A. No.

10 Q. And this amendment letter wasn't sent out until
11 what -- roughly, what, four months after they sent their
12 incorrect proposal letter in September?

13 A. That's right.

14 Q. All right. When you got this rather confusing
15 well-proposal letter in September, was there a meeting
16 finally at Centennial's office to discuss this?

17 A. There was. On October 20th, we met with Ascent
18 in our office to address some of our concerns about the
19 proposal and just tried to get some clarification.

20 Q. And that's reflected on Exhibit Number 3?

21 A. That's correct.

22 Q. At that time did you inquire about Ascent's
23 drilling experience?

24 A. We did. And they indicated they had not
25 drilled a well in New Mexico and did not give, really,

1 an indication of when they would drill this well either.

2 Q. So they couldn't tell you when they intended to
3 drill?

4 A. Correct.

5 Q. Did you raise your concerns about their
6 proposal?

7 A. We did. We -- we inquired about the TVD depth,
8 and they said they were going to look into it. And then
9 we also mentioned that we thought the 3rd Bone Spring
10 Sand was a better target for the area.

11 Q. And that was based on your experience?

12 A. Yes.

13 Q. Okay. Did -- had you -- did you discuss with
14 them the fact that you had actually acquired this
15 acreage?

16 A. Yes.

17 Q. Okay. And did you discuss with them that you
18 had acquired it to actually fully develop the acreage?

19 A. Yes.

20 Q. Okay. And that you had bought the acreage to
21 operate it?

22 A. Correct, from GMT.

23 Q. And you indicated to them that you wanted to
24 start at a lower formation, right?

25 A. Yes.

1 **Q. Okay. Did -- how did that meeting end?**

2 A. We both ended with both wanting to operate the
3 section.

4 **Q. After this meeting, what did Centennial do?**

5 A. On November 1st, we then sent them a well
6 proposal for our Horseshoe 601H well in the 3rd Bone
7 Spring Sand, with the spacing unit in the west half of
8 the east half of Section 18, and we also provided a
9 joint operating agreement covering the east half of
10 Section 18.

11 **Q. And so you followed up with a well proposal for**
12 **the zone that you thought -- the Bone Spring zone,**
13 **anyway, that you thought would be most appropriate to**
14 **start with?**

15 A. Yes, sir.

16 **Q. And is that -- is that proposal contained in --**
17 **I guess it would be the first letter of Exhibit Number**
18 **4?**

19 A. Yes.

20 **Q. And that was sent out November 1st, 2017?**

21 A. Correct.

22 **Q. Did Ascent respond to this proposal?**

23 A. They did not.

24 **Q. No response at all?**

25 A. No.

1 **Q. Did you follow up with them then?**

2 A. We did.

3 **Q. Okay. What did you do?**

4 A. We proposed our first acreage trade on December
5 7th. And the details of the trade were essentially
6 to --

7 **Q. Let me step back a minute.**

8 A. Sure.

9 **Q. If I look at the timeline here --**

10 A. Oh, I'm sorry. I'm sorry.

11 **Q. Was there a meeting on November 14th?**

12 A. Yes. I skipped that.

13 **Q. Okay.**

14 A. We did. We had a meeting with them in our
15 office on November 14th.

16 **Q. Did you initiate that meeting?**

17 A. We did. I think both parties really initiated
18 it. We wanted to get our operating teams together so we
19 could discuss how to work out a solution.

20 **Q. Okay. Now, what was the nature of that**
21 **meeting?**

22 A. We -- we -- they again affirmed that they
23 thought the 2nd Bone Spring was the target they wanted
24 to seek, and we reaffirmed that we thought the 3rd Bone
25 Spring Sand was the target. They also tried to explain

1 about their experience in other parts of the Basin -- in
2 other parts of the Basin or other basins, not in the
3 Delaware Basin, and with other companies, not Ascent.
4 They further affirmed that Ascent had not drilled a well
5 in New Mexico and then also asked Centennial and our
6 operations team about how we complete wells in
7 New Mexico and what our plan was.

8 Q. So they were asking you how you do -- complete
9 your wells?

10 A. That's correct.

11 Q. Did they indicate whether they had any
12 completion plans?

13 A. They did not.

14 Q. Did they indicate whether they had any
15 completion experience as a company?

16 A. No.

17 Q. Did they indicate whether they had any
18 completion crews?

19 A. No.

20 Q. Okay. And so with their lack of experience,
21 they were asking what you guys actually do to complete
22 your wells?

23 MR. BRUCE: I object to characterizing it
24 as lack of experience. They might not have experience
25 in New Mexico, but my witnesses are qualified technical

1 people.

2 Q. (BY MR. FELDEWERT) But they were asking you
3 what you do?

4 A. Correct.

5 Q. Okay. All right. How did that meeting end?

6 A. Both parties still wanted to operate -- operate
7 the section.

8 Q. Okay. All right. So then with that meeting,
9 what did you then do next? I'm looking at the time
10 where it indicates in December you proposed an acreage
11 trade?

12 A. We did. We did.

13 Q. How did you propose it to them?

14 A. We sent that through an email and regular mail
15 over to their offices and gave them a call just to
16 see -- to let them know we were sending an acreage trade
17 over.

18 Q. So a phone call, email, a formal proposal by
19 letter; is that right?

20 A. Correct.

21 Q. What was the proposal?

22 A. It was to trade our lease in the northeast
23 quarter, 160 acres, in exchange for Ascent's 160 acres
24 in the southwest quarter that they also own and just to
25 flip those two. That way Ascent could have operated the

1 entire east half on their own, and we would have been 50
2 percent in the west half. We were willing to deal with
3 the other partners in that west half to drill wells on
4 that side.

5 Q. So they would -- you would take your northeast
6 quarter acreage, give that to them so that they would
7 have the entire east half?

8 A. Correct.

9 Q. And then you would have the southwest-quarter
10 acreage, so you'd be able to operate in the west half?

11 A. Correct.

12 Q. And that sounds like that's a pretty reasonable
13 proposal to me. Did they like it?

14 A. No. Well, at first, they said they'd look into
15 it, and then there was no response.

16 Q. No response?

17 A. Correct.

18 Q. So what did you do then when you didn't get a
19 response to your acreage trade?

20 A. After that, a few weeks later, gave them a call
21 to see what the status of it was, and they declined the
22 trade and didn't really give a reason why, and then
23 there was no counteroffer either.

24 Q. Zero?

25 A. No.

1 Q. So if I'm looking at this timeline here, after
2 three months here, at the end of December, there was no
3 acceptance of Centennial's well proposal or their
4 proposed JOA that they had sent, right?

5 A. Correct.

6 Q. There was no offers by Ascent after they sent
7 their September 26th rather confusing well-proposal
8 letter, right?

9 A. Right.

10 Q. No offers from them at all?

11 A. Correct.

12 Q. Okay. No modification of what they had sent in
13 September with the wrong spacing unit, confusing
14 vertical depth? No changes there, right?

15 A. Correct.

16 Q. And so what did you then do in January of 2018
17 to get this development moving along?

18 A. We then proposed -- or, really, gave them a
19 call letting them know we were going to propose the
20 Horseshoe 602H, 702H to show our development plan or
21 initial phase development plan of co-developing the 3rd
22 Bone Spring Sand and --

23 Q. And those additional well-proposal letters are
24 the remaining part of Exhibit Number 4?

25 A. That's correct.

1 Q. Now, you mention that you sent these
2 well-proposal letters which resulted in two 3rd Bone
3 Spring Wells and two Wolfcamp wells?

4 A. Yes, sir.

5 Q. And that was for what reason? You said
6 simultaneous development?

7 A. Yeah, co-development of the 3rd Bone Spring
8 Sand and Wolfcamp.

9 Q. And does the company believe that's the most
10 prudent way to proceed in this area?

11 A. We do.

12 Q. And you've got someone who is going to testify
13 further about that?

14 A. We do.

15 Q. Okay. In each case, when you sent your
16 well-proposal letters, did they contain an AFE?

17 A. They did.

18 Q. And did they reference the previously submitted
19 joint operating agreement?

20 A. They did.

21 Q. Okay. Did Ascent ever comment on your joint
22 operating agreement?

23 A. No.

24 Q. What was Ascent's response to your January --
25 looking at your timeline here, Exhibit Number 3, what

1 was Ascent's response to your well proposals for
2 simultaneous development of the 3rd Bone Spring with the
3 Wolfcamp?

4 A. Ascent then proposed the Trucker 502H, 601H,
5 701H, and I believe it's actually the 703H listed on the
6 plats. And they also amended the 501H proposal to be
7 that west half-east half instead of just the east half.

8 Q. All right. So that would be contained in
9 Exhibit Number 5, right?

10 A. Correct.

11 Q. So we had the letter in January, the 22nd, that
12 we had previously examined, the 501, where they
13 corrected the spacing unit but not the total vertical
14 depth; is that right?

15 A. That's right.

16 Q. And then we had -- as we go through that
17 exhibit, we've got a letter for the 502H, right, after
18 the first yellow sheet in Exhibit Number 5?

19 A. Yes.

20 Q. And that's for a 2nd Bone Spring well?

21 A. Correct.

22 Q. And then they go on and have a well-proposal
23 letter for the 601H with the 3rd Bone Spring well?

24 A. Correct.

25 Q. Just one 3rd Bone Spring well?

1 A. Yes, just one.

2 Q. And then the well-proposal letter sent out
3 January 22nd for the two Wolfcamp wells?

4 A. Correct.

5 Q. And these were received three days after you
6 had sent them your simultaneous development plan for the
7 3rd Bone Spring and the Wolfcamp?

8 A. That's right.

9 Q. All right. Okay. Then did Ascent at that
10 point then -- or did Centennial then take steps to bring
11 this matter to hearing?

12 A. We did. We filed our pooling application for
13 the 601H well.

14 Q. If I look at the timeline, that's on January
15 23rd, 2018?

16 A. Correct.

17 Q. Why did you just file for the 601H well?

18 A. That was the only proposal that had been with
19 Ascent for over 30 days.

20 Q. So the other ones were -- you were waiting for
21 the proper time frame to expire before you filed pooling
22 application for those wells?

23 A. Correct. We had just sent them.

24 Q. In contrast, it shows that Ascent filed their
25 pooling applications on the same day, right, on January

1 23rd?

2 A. That's right.

3 Q. That would be one day after they proposed their
4 wells to you?

5 A. Correct.

6 Q. Is that why your timeline here says that Ascent
7 files untimely pooling application?

8 A. That's right.

9 Q. Okay. All right. I just want to be clear
10 here. Between the time in which they proposed their
11 501H well up there in September and the untimely filing
12 of these pooling applications, had Ascent made any offer
13 for a voluntary agreement?

14 A. No.

15 Q. They just simply rejected your efforts?

16 A. Correct.

17 Q. And made no counterproposal?

18 A. Correct.

19 Q. In February -- I'm looking at the timeline --
20 did Centennial once again try to reach agreement with
21 Ascent?

22 A. We did. We sent a second acreage trade to
23 them. We hand-delivered it to their office and also
24 emailed it over to them.

25 Q. And it was a second acreage trade?

1 A. Yes, sir.

2 **Q. What was your second proposal for the acreage**
3 **trade?**

4 A. We proposed essentially the same as the first
5 but localized it to the east half. So we proposed to
6 assign them the west half of the northeast quarter in
7 exchange for the east half of the southeast quarter so
8 that Centennial could then operate the east half of the
9 east half of Section 18, and Ascent would have the west
10 half of the east half to themselves.

11 **Q. Did they accept that offer?**

12 A. They did not.

13 **Q. Did they offer any counterproposal?**

14 A. No.

15 **Q. Did the company then prepare for hearing?**

16 A. We did.

17 **Q. And did you reflect that -- on February 15th,**
18 **you sent out -- you sent out amended well proposals.**
19 **Why did you do that?**

20 A. To note our change to the off-lease
21 surface-hole locations on Ascent's -- on Advance's
22 lease.

23 **Q. Okay. So you had been able to acquire a**
24 **drilling position in the section to the south?**

25 A. That's right.

1 Q. And you sent out amendments to your well
2 proposals to reflect that ability to drill off lease?

3 A. Correct.

4 Q. And then did you file your remaining pooling
5 applications for your wells?

6 A. We did.

7 Q. All right. Looking at these events, am I
8 correct that Centennial was the first one to propose a
9 well with the correct spacing unit and identification of
10 the targeted zone?

11 A. That's right.

12 Q. And prior to filing any pooling application,
13 did the company initiate meetings with Ascent to try to
14 reach an agreement?

15 A. Did Centennial?

16 Q. I'm sorry. Centennial.

17 A. Yes.

18 Q. And you proposed acreage trades?

19 A. Yes, we did.

20 Q. And after Ascent rejected all those offers,
21 with no counterproposal, was Centennial the first to
22 file a timely pooling application?

23 A. We were.

24 Q. In your opinion, when you look at these
25 timeline of events, did Ascent engage in good-faith

1 **efforts to reach a voluntary agreement prior to filing**
2 **its competing pooling application?**

3 A. No, they did not.

4 Q. And, in fact, they filed their pooling
5 **application just one day after they had properly**
6 **proposed their wells, correct?**

7 A. Correct.

8 Q. Now, you mentioned that had you had sent the
9 **JOA?**

10 A. Yes, we did.

11 Q. And that in each case, with your well
12 **proposals, you had included an AFE?**

13 A. We did.

14 Q. Are the costs reflected in those AFEs
15 **consistent with the company and other operators have**
16 **actually incurred for drilling similar horizontal wells**
17 **in the area?**

18 A. Yes.

19 Q. Okay. And does your -- do your AFEs reflect
20 **the additional costs that are associated with drilling**
21 **wells into the Bone Spring and a Wolfcamp in this area?**

22 A. They do.

23 Q. Okay. What is Centennial willing to accept as
24 **overhead rates for the pooling order?**

25 A. We're willing to accept 7,000 per month for

1 drilling and 700 for producing.

2 Q. You understand that that's what Ascent
3 believes is -- is appropriate?

4 A. We do.

5 Q. And are these costs at or below what other
6 operators are charging for similar development plans?

7 A. Yes.

8 Q. In preparation for this hearing, did the
9 company identify the operators and the lease mineral
10 interest owners in the offsetting 40-acre tracts for
11 these proposed spacing units?

12 A. Yes, we did.

13 Q. And were these offsetting parties provided
14 notice of this hearing?

15 A. They were.

16 Q. If I turn to what's been marked as Centennial
17 Exhibit Number 6, is this the affidavit prepared by my
18 office with an attached letter providing notice of
19 this --

20 A. Yes.

21 Q. Mr. Smith, were Exhibits 1 through 5 prepared
22 by you or compiled under your direction or supervision?

23 A. They were.

24 MR. FELDEWERT: Mr. Examiner, I would move
25 admission into evidence of Centennial Exhibits 1 through

1 6, which includes my notice affidavit.

2 MR. BRUCE: No objection.

3 MS. BRADFUTE: No objection.

4 EXAMINER JONES: Exhibits 1 through 6 for
5 Centennial are admitted.

6 (Centennial Resource Production, LLC
7 Exhibit Numbers 1 through 6 are offered and
8 admitted into evidence.)

9 MR. FELDEWERT: And that concludes my
10 examination of this witness.

11 EXAMINER JONES: Mr. Bruce?

12 CROSS-EXAMINATION

13 BY MR. BRUCE:

14 Q. Mr. Smith, would you turn to Exhibit 1, please?

15 A. Sure.

16 Q. In looking at the -- I believe Mr. Feldewert
17 stated that you filed for unorthodox-location approval
18 for these wells?

19 A. Yes, sir.

20 Q. Looking at -- for the 601H well, did you -- who
21 did you notify?

22 A. We notified the operators to the north and
23 diagonally to the -- for the 601, to the north, so that
24 would have been Cimarex.

25 Q. Cimarex.

1 A. And Ascent as well.

2 Q. Okay. When were these applications filed?

3 A. I believe on Tuesday.

4 MR. FELDEWERT: Tuesday.

5 Q. (BY MR. BRUCE) And to the south, that section
6 is operated by --

7 A. Advance.

8 Q. Advance.

9 A. Yes, sir.

10 Q. And then go to the last one, the 702H. Who did
11 you notify to the northeast and to the southeast?

12 A. I believe to the northeast was Concho, and the
13 southeast -- I may be wrong because I'm trying to
14 remember it. But I think it's Devon to the southeast
15 there.

16 Q. Okay. Your locations -- I'm looking at your
17 Exhibit 2, the letter from Intrepid. Your locations in
18 Section 19, who is the surface owner of Section 19?

19 A. The State of New Mexico, I believe.

20 Q. Do you know who the grazing lessee is?

21 A. I do not.

22 Q. Have you -- so you haven't reached any
23 agreement with the grazing lessee regarding the surface
24 location?

25 A. I believe our --

1 MR. FELDEWERT: Let me object. That
2 assumes there is a grazing lessee for --

3 EXAMINER BROOKS: That's a question of law,
4 but the question of fact can be answered.

5 **Q. (BY MR. BRUCE) Assuming there is a grazing**
6 **lessee, you haven't reached an agreement with them?**

7 A. I believe it's Merchant Livestock, and our
8 surface manager does have constant communication with
9 them. And I believe that Advance let them know that we
10 were seeking locations there.

11 **Q. Have you applied for state business leases for**
12 **the surface locations?**

13 A. We have not yet but are planning to.

14 **Q. Let's go to your Exhibit 4, please. In looking**
15 **at each of your proposal letters, do any of them give a**
16 **surface location?**

17 A. They do not.

18 **Q. For each of the four wells?**

19 A. No.

20 **Q. Do they give footages for the first take point**
21 **and last take point?**

22 A. No.

23 **Q. Do they give any locations whatsoever?**

24 A. We did reference the spacing unit as the west
25 half of the east half, Section 18.

1 Q. And then you said you're enclosing a JOA for
2 the west half of Section 18?

3 A. And that is incorrect there. It should be the
4 east half.

5 Q. Did it cover the east half of Section 18?

6 A. Yes.

7 Q. And in looking at the first page of your
8 Exhibit 5, Ascent did send you an east-half JOA,
9 correct?

10 A. They did.

11 Q. And this was more than month before you sent
12 them an east-half JOA?

13 A. Correct.

14 Q. So the fact of the matter is you both wanted to
15 drill the east half?

16 A. Yes.

17 Q. Is there anything wrong with that?

18 A. No.

19 Q. Other than with your exhibits -- your exhibits
20 under Tab 1 here today, have you previously notified
21 Ascent of the unorthodox locations?

22 A. Can you clarify?

23 Q. Before today?

24 A. Before today? Yes. They're on the notice list
25 of the application we sent on Tuesday.

1 Q. Okay. So they probably haven't received them
2 yet?

3 A. Probably not.

4 MR. FELDEWERT: They went certified mail.

5 Q. (BY MR. BRUCE) One final thing: On your
6 proposals, did you give -- do you set forth the working
7 interest of each party?

8 A. We do not.

9 Q. And do you set forth the total vertical depth?

10 A. We do not.

11 Q. And do you set forth the total measured depth?

12 A. We do not.

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

15 MS. BRADFUTE: Mr. Examiner, just a couple
16 of questions.

17 CROSS-EXAMINATION

18 BY MS. BRADFUTE:

19 Q. Mr. Smith, about the C-102 and the NSL
20 application and I believe it's for the 601H well --

21 A. Correct.

22 Q. -- you said you had notified Cimarex Energy Co.
23 of the proposed NSL?

24 A. We did.

25 Q. That application, you said, was sent out on

1 **March 13th, this past Tuesday?**

2 A. Yes.

3 **Q. Does Centennial agree that there is still a**
4 **20-day period for Cimarex or any other operator to raise**
5 **any objections to that application?**

6 A. Yes. Yes.

7 MS. BRADFUTE: That concludes my
8 questioning.

9 CROSS-EXAMINATION

10 BY EXAMINER BROOKS:

11 **Q. Okay. If I understand it, the parties here,**
12 **Centennial and Ascent, are 50/50 working interest owners**
13 **in this unit?**

14 A. Yes, sir.

15 **Q. There are no other working interest owners in**
16 **the proposed unit?**

17 A. Correct.

18 **Q. Are there any royalty interests in the unit?**

19 A. Our lease does have an overriding royalty
20 interest. Yes.

21 **Q. Okay. Have you notified the other overriding**
22 **royalty interests, or are they bound by agreements that**
23 **authorize you to pool --**

24 A. Bound by agreements.

25 **Q. And are those agreements in the assignment or**

1 otherwise?

2 A. In the assignment.

3 Q. Okay. Are there any overrides under Ascent's
4 interests?

5 A. I do not think so.

6 Q. Have you examined the title or reviewed the
7 title material to determine that?

8 A. We have.

9 Q. Okay. I think that's all the questions that
10 occur to me right now. I think I will --

11 EXAMINER JONES: Have more later?

12 EXAMINER BROOKS: Yes. I think I'll let
13 you go ahead.

14 EXAMINER JONES: Mr. Lowe?

15 CROSS-EXAMINATION

16 BY EXAMINER LOWE:

17 Q. Good morning.

18 A. Good morning.

19 Q. I have a question. For each of these surface
20 locations for each well, they're all located in the
21 north half of the northeast quarter of Section 19?

22 A. That's correct.

23 Q. And you indicated that the surface owner is
24 state land? Is that --

25 A. I beli- -- yes, sir.

1 Q. Who is the operator in that area?

2 A. Advance Energy Partners.

3 Q. Advance who?

4 A. Advance Energy Partners, I believe, is their
5 full name.

6 Q. Okay. And the question was brought up of
7 grazing lessees.

8 A. Yes.

9 Q. Is there anything that you-all do on your
10 end -- do you guys indicate anything or notify the
11 grazing lessees whenever you're locating the well?

12 A. Yes.

13 Q. You do?

14 A. We do.

15 Q. That's all the question I've got. Thank you.

16 CROSS-EXAMINATION

17 BY EXAMINER JONES:

18 Q. So basically all four of these wells are
19 unstandard; is that correct?

20 A. Yes, sir.

21 Q. So you're applying for a nonstandard for all
22 four?

23 A. All four, yes, sir.

24 Q. And they're all going to be located off
25 section? No, no. Actually -- yeah, they are. All of

1 **them are off section.**

2 A. They should be.

3 Q. So -- so you were assigned the lease -- you
4 **hold the title to the lease -- the federal lease; is**
5 **that correct?**

6 A. Yes, sir, in the northeast quarter.

7 Q. So all of the northeast and all of the -- but
8 **you also own the state lease in the southwest quarter?**

9 A. No. Sorry for the confusion. That was -- that
10 was a trade proposal. Ascent owns that southwest
11 quarter, and that was part of the trade proposal from
12 us, for them to assign that southwest to us in exchange
13 for the northeast.

14 Q. Is there one state lease on the south half and
15 **one federal lease on the north half, is that correct, in**
16 **this section?**

17 A. I believe it's one state -- I believe that the
18 northeast and the northwest are two federal -- separate
19 federal leases, and the south half is one state lease.

20 Q. Okay. So is it true that it's 50/50 ownership
21 **by both companies in the west half also?**

22 A. Centennial is not in the west half at all.

23 Q. Okay. And the federal lease, does it have an
24 **expiration coming up?**

25 A. The federal lease for -- a federal lease that

1 we own? I don't know.

2 Q. I guess if it did, you would know. Your
3 software would kick it up, wouldn't it, and you'd be
4 prompted by that?

5 A. (No response.)

6 Q. So, basically, in the east half, there are two
7 separate tracts. So each of these wells has two
8 separate tracts?

9 A. Correct.

10 Q. Okay. And the com agreement is in the works;
11 is that correct?

12 A. Yes.

13 Q. So is it -- any feedback from both the Feds or
14 the State about the com agreement?

15 A. No, sir.

16 Q. It's the same form? You just -- Fed-State
17 agreement you sent to both?

18 A. We haven't sent the com agreement yet.

19 Q. Okay.

20 MR. FELDEWERT: Mr. Examiner, neither party
21 can file an APD until they get the pooling order.

22 EXAMINER JONES: Okay. Yeah. So there are
23 no APDs yet. There are no APIs.

24 MR. FELDEWERT: Correct. Correct.

25 Q. (BY EXAMINER JONES) But the well names are

1 going to stay the same.

2 A. Yes, sir.

3 Q. And you came up with these Horseshoe names, or
4 the geologist did?

5 A. Yeah.

6 Q. Geologists get all the luck on that, get to
7 pick the names.

8 Is there a drill-island issue out here?

9 A. There is not, since we have a waiver letter
10 from Intrepid Potash.

11 Q. But what about from the State or the BLM?

12 A. We were -- the BLM indicated -- we first -- we
13 first -- really, when we were looking at that location
14 in Section 19, we got a call from Jim Rutley at the BLM,
15 and he got us in contact with Intrepid. We were able to
16 talk with them, work out surface-hole locations in that
17 area that were in the LMR. Intrepid agreed that it did
18 not affect their reserves -- life-of-mine reserves and
19 granted us the waiver.

20 Q. Did the LMR cover the whole section of 18? Do
21 you know?

22 A. I believe it's actually the line somewhere in
23 Section 18.

24 Q. Will these wells all be affected by it?

25 A. I'm not -- Ascent would have to assert where

1 their locations are. I'm not sure.

2 Q. Okay. In your JOA proposal, what terms are you
3 offering there?

4 A. On the JOA?

5 Q. Yeah.

6 A. I believe it was 7,000 for drilling and 700 for
7 producing, and I believe it was a 300 percent nonconsent
8 penalty.

9 Q. Okay. So 100 payout, plus 200 percent?

10 A. Correct.

11 Q. So that's just a proposal for them to sign, and
12 they have -- the history was gone over laboriously. So
13 they have not signed either the JOA or the proposed JOA
14 or your proposed well proposals yet?

15 A. Correct.

16 Q. Okay. And you have not signed theirs either?

17 A. No.

18 Q. Okay. Okay. And the timing of the proposal,
19 does -- I guess you're maintaining there was no
20 good-faith effort on Ascent's part, and, can you say,
21 because the depth was incorrect and the timing was
22 incorrect?

23 A. I believe that assertion is more from the fact
24 that in between our initial well proposal and filing for
25 forced pooling, there were no offers from Ascent or

1 willingness for offers or counteroffers to come to
2 agreement.

3 Q. Okay. It falls back on the legal people to
4 look at this. I'm not sure if we've had cases that the
5 attorneys could cite -- good-faith effort was not cited
6 as a reason for --

7 The letter agreement with potash and letter
8 agreement with the surface owners, but there is no
9 other -- besides the -- you've got the reef here and the
10 potash; is that correct? You know about the reef?
11 Potash is what gets you --

12 A. Yes, sir. That may be out of my portion here.

13 Q. Yeah. Okay.

14 I'm sure -- the AFEs are all federal; is
15 that correct? They have to go straight to the Feds
16 first, the BLM first?

17 A. The AFEs?

18 Q. Yeah. I mean, the -- the -- yeah. They have
19 to be approved by the --

20 EXAMINER BROOKS: You mean the APDs.

21 Q. (BY EXAMINER JONES) APDs. APDs.

22 A. Yes, sir. When -- when we're allowed to submit
23 them, we'll need to -- that's why we scheduled our
24 on-site. We sent a notice of staking to the BLM so that
25 we could, at the earliest date, get out there with them,

1 have them approve the locations and be ready to submit
2 an APD.

3 Q. Okay. And these on-sites, do you see any
4 reason why they would, right now, move your surface
5 location, because I guess we don't -- you've got that on
6 your C-102s, your surface locations.

7 A. Yes, sir.

8 Q. But we try to put that in our orders. So
9 anyway, you've got it there.

10 And your NSL proposals will have your first
11 and last take points, is that correct?

12 A. Correct.

13 Q. Okay. Thank you.

14 EXAMINER JONES: Do you guys have any more
15 questions?

16 EXAMINER BROOKS: Yeah.

17 RECROSS EXAMINATION

18 BY EXAMINER BROOKS:

19 Q. I see now why you can't -- I think I understand
20 now why you can't file your APD even though it's
21 federal, because it's on -- the surface location is on
22 state land, right?

23 A. The surface location is on state land, but
24 really the federal land is in the northeast quarter,
25 which makes it Fed action.

1 Q. Yeah, I understand. But I didn't know what --
2 I do not know what the BLM requires as preliminary to
3 AFEs -- to APDs -- I'm getting mixed up now.

4 EXAMINER JONES: Sorry about that.

5 Q. (BY EXAMINER BROOKS) But my understanding is,
6 if you drill a surface location on state land and you're
7 drilling under both state and federal, then you have to
8 file both with us and with the BLM?

9 A. Correct. We will.

10 Q. And you cannot file with us until -- unless you
11 have permission from every -- from a working interest
12 owner for every tract in the spacing unit.

13 A. Correct.

14 Q. Which you do not have?

15 A. Correct.

16 Q. Okay. Now, you do not have, at this point, any
17 permission from the State for that surface -- from the
18 State Land Office?

19 A. We need to seek a business lease from them.
20 Yes, sir.

21 Q. Right.

22 Now, do they make any difference of --
23 well, let me go on.

24 Cimarex is the lessee?

25 A. Not of Section 19.

1 Q. Not of Section 19. Okay.

2 A. No, sir.

3 Q. So who is the lessee?

4 A. That's Advance Energy Partners.

5 Q. Okay. You already said that. I'm sorry.

6 A. That's okay.

7 Q. Do you have their permission for that surface
8 location?

9 A. We do. We have a letter agreement with them.

10 Q. Okay. Thank you.

11 RECROSS EXAMINATION

12 BY EXAMINER JONES:

13 Q. Is the location you've got actually -- the
14 location is already built by other oil companies in the
15 past or drilled in the past?

16 A. No. They'll be new locations. They are state,
17 but they'll be new locations.

18 Q. This first application, 15988, is amended. Why
19 was it amended?

20 MR. FELDEWERT: Mr. Examiner, it was
21 amended to note that the surface location was going to
22 be in the north half of the northeast quarter.

23 EXAMINER JONES: Okay. And the first
24 application was not saying that?

25 MR. FELDEWERT: Correct, because they

1 didn't have permission to drill at that point in time.

2 EXAMINER JONES: Okay. Thank you very
3 much.

4 Any more questions of this witness?

5 MR. BRUCE: Just one, really.

6 RECROSS EXAMINATION

7 BY MR. BRUCE:

8 Q. Mr. Smith, you just said you're going to have
9 new -- there's going to be new drilling sites, right?

10 A. (Indicating.)

11 Q. Are there -- are there existing roads to your
12 well sites?

13 A. I don't know.

14 Q. You don't know?

15 A. I'm not sure.

16 Q. There is no pipeline out there either, is
17 there?

18 A. That would be more under our service
19 department.

20 Q. Okay. If you don't know, that's fine.

21 A. Okay.

22 REDIRECT EXAMINATION

23 BY MR. FELDEWERT:

24 Q. Mr. Smith, they've been staked, right?

25 A. Yes, sir.

1 Q. And you mentioned the fact that you have to get
2 a business lease from the State Land Office. You're not
3 aware of any -- the usual problems in getting a business
4 lease and paying them for a business lease if everybody
5 agrees with the surface location?

6 A. We've never had an issue in other
7 circumstances.

8 Q. Okay. And they don't mind requiring you to pay
9 for a business lease?

10 A. No.

11 Q. Also, the -- the JOA that was sent by Ascent,
12 was it a complete JOA?

13 A. It was not. It was just the body of the JOA.
14 The exhibits were not attached.

15 Q. So it doesn't have a contract area?

16 A. It did on the first page of the body, but the
17 Exhibit A was not there that further clarified that.

18 Q. Didn't have any of the exhibits?

19 A. No.

20 Q. Okay. And finally, with respect to your well
21 proposal that Mr. Bruce noted, unlike their proposal,
22 didn't it actually say "3rd Bone Spring Sand"?

23 A. It did.

24 Q. That's all the questions I have.

25 EXAMINER JONES: Okay.

1 EXAMINER BROOKS: Nothing further.

2 EXAMINER JONES: Okay. Thank you very
3 much.

4 THE WITNESS: Thank you.

5 MR. FELDEWERT: We'll call our next
6 witness.

7 EXAMINER JONES: I guess we're full speed
8 ahead here.

9 MR. FELDEWERT: I'm sorry.

10 EXAMINER JONES: We're fine. Keep going.

11 NICK DANIELE,
12 after having been previously sworn under oath, was
13 questioned and testified as follows:

14 DIRECT EXAMINATION

15 BY MR. FELDEWERT:

16 Q. Would you please state your name, identify by
17 whom you're employed and in what capacity?

18 A. Nick Daniele, petroleum geologist for
19 Centennial Resource Development.

20 Q. And, Mr. Daniele, have your responsibilities as
21 a petroleum geologist with the company included the
22 Permian Basin of New Mexico?

23 A. Yes, sir.

24 Q. Have you previously testified before this
25 Division?

1 A. No, sir.

2 **Q. Would you please outline your educational**
3 **background?**

4 A. I received my Bachelor of Science degree in
5 geology from Marshall University in 2010, and I received
6 my Master's of Science degree in geology from the
7 Colorado School of Mines in 2012.

8 **Q. After you got your master's from the Colorado**
9 **School of Mines, where did you go to work?**

10 A. I interned with Apache Corporation my first
11 year of grad school, and I got hired on full time and
12 worked with them until May of 2017.

13 **Q. Okay. And when you were with Apache, did your**
14 **responsibilities include a number of different basins?**

15 A. Yes, sir.

16 **Q. And when you came on with Centennial in 2017,**
17 **did you focus on the Permian Basin of New Mexico?**

18 A. Yes, sir.

19 **Q. Are you a member of any professional**
20 **associations or affiliations?**

21 A. American Association of Petroleum Geologists.

22 **Q. And how long have you been a member of that**
23 **group?**

24 A. Since 2012.

25 **Q. Mr. Daniele, are you familiar with the**

1 **applications filed in these consolidated cases?**

2 A. Yes, I am.

3 **Q. And have you conducted a geologic study of the**
4 **Bone Spring and Wolfcamp Formations in this area?**

5 A. Yes, I have.

6 MR. FELDEWERT: I would tender Mr. Daniele
7 as an expert witness in petroleum geology.

8 MR. BRUCE: I have no objection.

9 MS. BRADFUTE: No objection.

10 EXAMINER JONES: He is so qualified.

11 **Q. (BY MR. FELDEWERT) Mr. Daniele, what are the**
12 **targeted interval -- what are the actual targeted**
13 **intervals for Centennial's proposed wells?**

14 A. The proposed wells target the Wolfcamp A in the
15 3rd Bone Spring Sand.

16 **Q. Have you prepared a structure map and cross**
17 **section for each of these targeted zones?**

18 A. Yes, I have.

19 **Q. If I turn to what's been marked as Centennial**
20 **Exhibit Number 7, is that a structure map that you have**
21 **prepared for the 3rd Bone Spring Sand?**

22 A. Yes. This is the subsea structure map on top
23 of the 3rd Bone Spring Sand. All the wells shown have
24 3rd Bone Spring Sand tops picked, along with the
25 producing horizontal wells in the 3rd Bone Spring Sand.

1 The bubbles indicate the first six-month cum for oil,
2 and the posted data are overall cum oil, gas and water.
3 And --

4 Q. Let me stop you there.

5 So those numbers aren't limited to six
6 months?

7 A. The bubbles are six months, and the posted data
8 is the overall cums for the wells.

9 Centennial's two 3rd Bone Spring Sand wells
10 are located in Section 19 and drilling from south to
11 north into Section 18. Overall, there's about 2 degree
12 updip, which results in roughly 100 TVD difference from
13 heel to toe. And the subsea structure map shows 50-foot
14 contours.

15 Q. Now, you said all the wells that you show on
16 here are 3rd Bone Spring Sand wells?

17 A. The horizontals, yes.

18 Q. So you're stepping out to the what, the
19 southwest, I guess, from the developed area?

20 A. Yes, sir. We're pushing the play down to the
21 southwest.

22 Q. Okay. And I see that there are some 3rd Bone
23 Spring wells directly to the east?

24 A. Yes, sir.

25 Q. Have those wells been successful?

1 A. Yes, sir.

2 Q. Do you see any -- across the area, the east
3 half of Section 18, do you see any faulting or pinchouts
4 or other geologic impediments to horizontal wells?

5 A. No, sir.

6 Q. And you mentioned that you will be drilling
7 updip?

8 A. Yes, sir, toe up.

9 Q. Toe up.

10 Okay. And there are some advantages
11 associated with that?

12 A. There are. And our reservoir engineer will
13 elaborate on those.

14 Q. And this will allow you to drill toe up and
15 remain within the targeted interval, and you wouldn't
16 have to weave around in the targeted interval?

17 A. Yes, sir. We could stay within our 20-foot
18 targeted interval of best-quality rock.

19 Q. Okay. Now, there's a red line on here. Is
20 that the wells that were utilized for a cross section?

21 A. Yes, sir.

22 Q. There are four wells?

23 A. Four wells.

24 Q. Okay. And if I turn to what's been marked as
25 Centennial Exhibit Number 8, is this a similar structure

1 **map for the Wolfcamp Formation?**

2 A. Yes, sir. It's a subsea structure map on top
3 of the Wolfcamp. The wells shown here are the data
4 points to create the subsea structure map, 50-foot
5 contour interval. And the horizontal wells shown are
6 producing Wolfcamp horizontals, with the bubbles as the
7 first six months' cum oil, again. And the data posted
8 are overall cum oil, gas and water, again.

9 And Centennial's Wolfcamp wells are shown
10 in Section 19, the north -- the north half of Section
11 19, drilling into Section 18.

12 **Q. Okay. Now, is the -- you still have 50-foot**
13 **contour intervals?**

14 A. Yes, sir.

15 **Q. So both -- as with the 3rd Bone Spring Sand,**
16 **does your drilling plan in the Wolfcamp result in**
17 **drilling updip?**

18 A. Yes, sir.

19 **Q. With toe up?**

20 A. Toe up.

21 **Q. Okay. And it looks like -- there is not a lot**
22 **of Wolfcamp development in the immediate area, is there?**

23 A. No. The Wolfcamp is underdeveloped in this
24 area.

25 **Q. And both parties are targeting the Wolfcamp**

1 **area?**

2 A. Yes, sir. There are encouraging results
3 recently.

4 Q. Okay. Do you see -- as with the 3rd Bone
5 Spring, do you see within the Wolfcamp any faulting or
6 pinchouts or any other geologic impediments to
7 horizontal wells?

8 A. No, sir.

9 Q. And have you utilized the same -- you also show
10 your cross-section line on here?

11 A. Yes, sir.

12 Q. With the red line?

13 A. Yup.

14 Q. Is it the same cross-section line, same wells?

15 A. Yes, sir.

16 Q. As you've shown for the 3rd Bone Spring?

17 A. Yes.

18 Q. Why did you choose these four wells?

19 A. They represent offset wells to our proposed
20 horizontals in both the 3rd Sand and the Wolfcamp, and
21 they offset current producers in the 3rd Sand and
22 Wolfcamp as well. They also show the continuity of the
23 various reservoirs and our proposed location.

24 Q. So they have some good logs that you can work
25 off of then?

1 A. Yes, sir.

2 Q. If I turn to what's been marked as Centennial
3 Exhibit Number 9, is this the cross section that
4 corresponds with the wells identified in Exhibits 7 and
5 8?

6 A. Yes. The section is from north to south, north
7 being on the left, south to the right. In each -- in
8 each well, track one is your gamma ray curve. Track two
9 is a resistivity curve, and in track three, I have the
10 neutron and density porosity curves.

11 Q. You show the top of the 3rd Bone Spring Sand;
12 is that right?

13 A. Yes, sir. From top to bottom, the top shown
14 are 3rd Bone Spring Sand, TBSG Sand; the Wolfcamp A,
15 WFMP A below that; and then the Wolfcamp B, WFMP B,
16 making out the base of the A.

17 Also shown are the proposed Horseshoe Fed
18 Com 601H and 602H target zones in the Lower 3rd Bone
19 Spring Sand. And the proposed Horseshoe Fed Com 701,
20 702H, those are the Wolfcamp wells in the proposed
21 target location as well. And you can see the continuity
22 from north to south in the reservoir, and the TVD
23 difference between the two zones is roughly 220 feet.

24 Q. Okay. So it's 220 feet between the two
25 targeted zones?

1 A. Yes, sir. And there is also lack of mechanical
2 barrier, which we think will play a big part in the
3 development of both reservoirs.

4 Q. Okay. So in your opinion, does this indicate
5 that each quarter section of the proposed nonstandard
6 spacing and proration units will contribute equally to
7 production of the proposed wells?

8 A. Yes, sir.

9 Q. Both for the 3rd Bone Spring and the Wolfcamp?

10 A. Yes, sir.

11 Q. Okay. All right. Now, you mentioned the
12 simultaneous development plan?

13 A. Yes, sir.

14 Q. If I turn to what's been marked as Centennial
15 Exhibit Number 10, does this depict the development
16 plans?

17 A. Yes, sir.

18 Q. Okay. Now, I see "Development Stage 1" and
19 "Development Stage 2." And it looks like the wells at
20 issue here are the Stage 1 development?

21 A. Yes, sir.

22 Q. And then Stage 2 would be development of the
23 2nd Bone Spring Sand?

24 A. Yes, sir. And this development is set up for
25 our east-half section.

1 Q. So this is -- you're planning on fully
2 developing the section?

3 A. Yes, sir.

4 Q. And moving up top -- starting at the bottom and
5 moving up?

6 A. Bottom to top is the methodology we prefer.

7 Q. And why is that?

8 A. One, in this instance, we have co-development
9 opportunity in the Wolfcamp and 3rd Bone Spring Sand.
10 We hope to development that first. Drilling those
11 wells, we'll have more data points within the shallower
12 zones to define our targeting and landing and potential
13 to stay in the zone longer. So Centennial's methodology
14 is developing from bottom up.

15 Q. So under your plan here, you're actually going
16 to have four wellbores through the 2nd Bone Spring to
17 help you with targeting and evaluation?

18 A. Yes, sir. And if we want to gather any more
19 data on the shallower sections, we're able to do that as
20 well.

21 Q. Okay. With respect to your Stage 1 development
22 plan here, what do you show here in terms of the pattern
23 and the spacing?

24 A. I'm showing a 1,320 in-zone spacing, meaning
25 the two Wolfcamp wells are 1,320 feet apart. Also, the

1 3rd Bone Spring Sand wells are 1,320 feet apart,
2 resulting in a 660 wine-rack stagger pattern.

3 Q. And why did you choose that particular spacing
4 over -- the 1,320 in between and the wine-rack pattern
5 here?

6 A. The 1,320 spacing -- let me back up. The 3rd
7 Bone Spring Sand was our main target for this area, and
8 the spacing that -- if you refer back to the structure
9 map with the horizontal wells, all those wells were
10 developed at 1,320 spacing, so it's an industry
11 standard. That's a good starting point. So we based
12 our 1,320 on the nearby development.

13 There are also four new wells in the
14 Wolfcamp, which show it's a viable target as well. In
15 order to mitigate waste and effectively drain both
16 reservoirs, we put the Wolfcamp wells equidistant
17 between the 3rd Bone Spring Sand wells. And without
18 having a mechanical barrier, we need to co-develop these
19 at the same time in order to mitigate waste. If you
20 drill one zone without the other zone, you cause a
21 pressure depletion, and if you go back in and develop
22 the second zone, the completions will be hindered by the
23 pressure depletion. So that's why we decided to
24 co-develop with a stack-stagger pattern in the Wolfcamp
25 A and the 3rd Bone Spring Sand.

1 Q. This spacing -- and I'll call it geometry --
2 with the wine-rack pattern, is that a methodology that
3 has been used successfully by other operators in the
4 area to simultaneously produce these two zones?

5 A. Yes, sir.

6 Q. And does Centennial have experience that it has
7 brought to New Mexico of simultaneously developing these
8 types of zones with this type of pattern?

9 A. Yes, sir.

10 Q. And in your opinion, in this geologic
11 circumstance, is it necessary to simultaneously develop
12 these two zones with this pattern in order to avoid
13 waste?

14 A. Yes, sir.

15 Q. And have you visited with your reservoir
16 engineers and other geologists within the company?

17 A. Yes, I have.

18 Q. And is it, likewise, the company's opinion that
19 you need to develop these two zones simultaneously to
20 avoid waste?

21 A. Yes, sir.

22 Q. And does this geometric pattern and spacing
23 provide the most efficient way to develop these two
24 zones simultaneously?

25 A. Yes, sir, and to mitigate communication and

1 waste.

2 Q. All right. And, Mr. Daniele, if you're a
3 company that intends to fully develop the acreage, is it
4 your opinion that the proper way to proceed is to start
5 at the bottom and move up?

6 A. Yes, sir, I do.

7 Q. For the reasons that you stated earlier about
8 getting the information you need to properly locate the
9 zone --

10 A. Yes, sir.

11 Q. -- and evaluate the zone?

12 How does this development plan concur with
13 Ascent's proposed plan?

14 A. Do you want me to go to the next exhibit?

15 Q. Sure. Let's go to Centennial Exhibit Number
16 11. Did you put this together?

17 A. I did. It's based on the proposals we
18 received. I wasn't exactly sure about the exact target
19 zones for Centennial, so I made -- or for Ascent so I
20 made an estimate. But the spacing, I thought, is what
21 was very important.

22 If you look at, first of all, the amount of
23 wells -- the Trucker Fed Com 501 was placed somewhere in
24 the 3rd Bone Spring Carb, which is not an ideal target,
25 in my opinion, to first start drilling in this area.

1 The Trucker Fed Com 502 was a well proposed
2 in the 2nd Bone Spring Sand.

3 **Q. Let me stop you there.**

4 So you've got their well proposals, right?

5 A. Yes, sir.

6 **Q. And they identified total vertical depth?**

7 A. Yes.

8 **Q. And they had a vertical depth of the 502H that**
9 **put them within the 2nd Bone Spring Sand?**

10 A. The 502 is proposed in the 2nd Bone Spring
11 Sand. Yes.

12 **Q. And they had a vertical depth of the 501H that**
13 **put it in the 3rd Bone Spring Carbonate?**

14 A. Yes, sir.

15 **Q. All right. What else did you observe about**
16 **their plan?**

17 A. They also had two Wolfcamp wells, the Fed
18 Com -- Trucker Fed Com 701 and 703, as we did have two
19 Wolfcamp wells, and they only had one 3rd Bone Spring
20 Sand well, which is the 601H.

21 **Q. Okay.**

22 A. The spacing in the Trucker Fed Com 701 and 703
23 was 1,500 feet, with a stack-stagger pattern with the
24 3rd Bone Spring Sand at 750 feet.

25 **Q. What's your opinion with respect to the spacing**

1 **that they have proposed here?**

2 A. Based on the spacing, it seems to be too wide,
3 and there is potential to have waste. And without
4 having an additional 3rd Bone Spring Sand well causing
5 pressure depletion, then going back in and drilling the
6 initial 3rd Bone Spring Sand well, the completion would
7 be hindered. And in my opinion, this is not an optimal
8 development plan for the 3rd Bone Spring Sand and
9 Wolfcamp.

10 Q. So in your opinion -- let's just look at the
11 3rd Bone Spring Sand and the Wolfcamp A Sand. Is it
12 your opinion that they are not appropriately spaced to
13 develop the zone?

14 A. Yes, sir.

15 Q. And is it your opinion that they are not
16 appropriately spaced not only to develop the zone but to
17 develop the zone simultaneously --

18 A. Yes, sir. They can be developed simultaneously
19 but not efficiently.

20 Q. Okay. And is it your opinion that you would
21 need more than just one 3rd Bone Spring well to properly
22 and efficiently simultaneously develop both of these
23 zones?

24 A. Yes, sir.

25 Q. Looking at their spacing -- let's step back.

1 I want you to assume, okay, that they
2 actually intend to put that 501H up into the 2nd Bone
3 Spring Sand. Okay?

4 A. Okay.

5 Q. With that assumption, is -- the spacing that is
6 proposed with that assumption, is that appropriate to
7 efficiently and effectively develop the 2nd Bone Spring
8 Sand?

9 A. I don't believe so. There have been multiple
10 spacing tests in the direct vicinity, but the more
11 mature 2nd Bone Spring Sand wells were developed on
12 1,320 spacing as well. There have been some
13 down-spacing efforts, but that depends on the targeting
14 and completion design, which varies by operator. But a
15 good starting point within the 2nd Bone Spring Sand
16 would be 1,320, where this is showing over 1,800.

17 Q. Okay. I want to wrap this up. In your
18 opinion, is the simultaneous completion of the 3rd Bone
19 Spring Sand and the Wolfcamp as proposed by Centennial
20 necessary to avoid waste?

21 A. Yes, sir.

22 Q. Is Centennial's proposed well spacing with the
23 Stage 1 development plan the most prudent way to proceed
24 to simultaneously develop?

25 A. Yes, sir.

1 Q. And is Centennial's well spacing for its Stage
2 2 plan as currently put forth, is that the most prudent
3 way to develop the 2nd Bone Spring Sand?

4 A. Yes, sir.

5 Q. Will Ascent's proposed well spacing here result
6 in the efficient and effective recovery of the targeted
7 reserves?

8 A. No.

9 Q. In your opinion, should Ascent's applications
10 be denied?

11 A. Yes, sir.

12 Q. In your opinion, is the granting of
13 Centennial's application in the best interest of
14 conservation, the prevention of waste and the protection
15 of correlative rights?

16 A. Yes.

17 Q. Were Centennial Exhibits 7 through 11 prepared
18 by you or compiled under your direction and supervision?

19 A. Yes, they were.

20 MR. FELDEWERT: Mr. Examiner, I move
21 admission into evidence of Centennial Exhibits 7 through
22 11.

23 MR. BRUCE: No objection.

24 MS. BRADFUTE: No objection.

25]EXAMINER JONES: Exhibits 7 through 11 are

1 admitted.

2 (Centennial Resource Production, LLC
3 Exhibit Numbers 7 through 11 are offered
4 and admitted into evidence.)

5 MR. FELDEWERT: That concludes my
6 examination of this witness.

7 EXAMINER JONES: Mr. Bruce?

8 CROSS-EXAMINATION

9 BY MR. BRUCE:

10 Q. Just one question, Mr. Daniele. Could you turn
11 to your Exhibit 7? In looking at the northeast quarter
12 of Section 18, is that Centennial's only acreage in the
13 area covered by this plat?

14 A. No.

15 Q. What other acreage do you have?

16 A. That's proprietary. Never mind. Sorry about
17 that. I don't know off the top of my head the exact
18 positions.

19 Q. Okay. That's fine.

20 MS. BRADFUTE: No questions.

21 EXAMINER BROOKS: No questions.

22 EXAMINER JONES: Mr. Lowe?

23 CROSS-EXAMINATION

24 BY EXAMINER LOWE:

25 Q. I've got a few questions.

1 Your strategy of toe-up drilling, is that
2 for all the Wolfcamp area in this location, or is that
3 in general?

4 A. That's in general. Our reservoir engineer will
5 elaborate on why it's important.

6 Q. I've always heard the term or phrase
7 "preventing waste" in whatever area. I process a few
8 NSLs here. How do you determine that on your end? How
9 do you quantify that to say it is?

10 A. It's kind of hard to quantify, but based on the
11 development and the spacing of the 3rd Sand and the
12 Wolfcamp, you can see a little communication, which you
13 know you're accessing all the rock. This may be a
14 better question for the reservoir engineer. But if you
15 space your wells too far out and you're not accessing
16 all the hydrocarbons possible, those would be wasted and
17 not recoverable.

18 Q. So I suspect that each scenario for each --
19 when they say that, when it's stated for that well, it's
20 all specific to a lot of variables?

21 A. Yeah, formation, lithology, pressure.

22 Q. Okay. That's it. Thank you.

23 CROSS-EXAMINATION

24 BY EXAMINER JONES:

25 Q. Mr. Daniele, I guess the Marshall basketball

1 team is a little better than the Colorado School of
2 Mines' basketball team; is that correct (laughter)?

3 A. It's about time.

4 Q. Your surface pipe here is going down -- what
5 are you protecting in the surface for freshwater? In
6 other words, the wellbore itself, the strat -- the strat
7 section all the way down, can you talk about it?

8 A. Well, we -- our drilling engineer is going to
9 actually present the whole wellbore diagram and what
10 we're casing off and why.

11 Q. Okay. But you actually advise him as to what
12 formations to protect, so --

13 A. Yeah. Put it behind salt, salt behind pipe.
14 In this case, the Capitan Aquifer behind pipe. Like I
15 said, another intermediate casing. There is actually a
16 pressure difference between the Wolfcamp and the 3rd
17 Bone Spring Sand, so we have to set another intermediate
18 within the 3rd carb. So in case we have to mud up and
19 have hole-stability issues in the Wolfcamp, we're not
20 going to take losses in the shallower zones.

21 Q. Okay. That 3rd Carbonate, is it -- is that
22 because it's kind of a trap right there to -- there's an
23 unconformity between the Bone Spring and the Wolfcamp?

24 A. There is. Yeah. There is -- there is a scour
25 surface and conformity, deposition of the basal sand.

1 Q. So there was some pressures formed over the
2 eons that --

3 A. And also you get higher pressures usually in
4 shales, and the Wolfcamp is mostly a shale.

5 Q. Okay.

6 A. There is the X-Y Sand, I'm sure you've heard
7 of, the top of the Wolfcamp. But the majority of the
8 Wolfcamp is a shale, and it exhibits higher pore
9 pressures.

10 Q. The Wolfcamp's got higher thermal maturity than
11 the --

12 A. Yes. Generally, as you --

13 Q. It's a pretty good source for the Bone Spring
14 also, right?

15 A. Yes. The Bone Spring's also self-sourcing from
16 the carbonate intervals. There are actually organics in
17 those, too, but the Wolfcamp is a major source in the
18 Basin.

19 Q. Okay. But you like the 3rd Bone Spring Sand
20 because of the porosity and the --

21 A. Yeah, porosity, permeability, the reservoir
22 quality. It's better in sandstones and shales.

23 Q. So not -- sources is not an issue. It's the --
24 it's the reservoir characteristics?

25 A. Yes, sir.

1 Q. And so I wrote down 100 feet here. Okay. Your
2 wells -- you're going to put your wells within 100 feet
3 of the lease line. Was that your recommendation?

4 A. Yeah, pending the new rules.

5 Q. Yeah. Well, but do you like that or not?

6 A. I do. You can have longer lateral lengths,
7 which have shown to increase productivity of the wells
8 and the rate of return as well.

9 Q. Okay. Your structure map here shows kind of a
10 nose going to the northwest. What's up with that?

11 A. Just internal structure. There's -- like, from
12 what I've seen, there's no faulting, just a structural
13 nose coming down from the north.

14 Q. Okay. So as far as stress direction, it's an
15 engineering question, I know, but geologists work -- you
16 know about fracture orientations for sure. Do you have
17 any indication of fracture orientation out here? Do you
18 have any dipole sonics? Do you have any -- any FMIs or
19 anything?

20 A. I'm not -- I'm not sure about the FMIs. I
21 don't think we do in this area. Dipole sonics, we
22 haven't dug into that side of the structural complexity
23 of this area quite yet.

24 Q. And where will you put your mud loggers on? At
25 the base of the -- at the Delaware, or are you going to

1 **put them on at --**

2 A. We have a pretty good idea of where the
3 Delaware is going to come in, so we'll bring them on
4 after we set the Capitan behind pipe.

5 **Q. Okay. So then you'll be drilling with salt mud**
6 **after that and go on down?**

7 A. (Indicating.)

8 **Q. Okay. That's it for me.**

9 EXAMINER JONES: Anybody have more
10 questions for this witness?

11 EXAMINER BROOKS: No.

12 MR. FELDEWERT: No, sir.

13 EXAMINER JONES: Thank you, Mr. Daniele.
14 We'll take a ten-minute break.

15 EXAMINER BROOKS: Good idea.

16 (Recess, 10:39 a.m. to 10:58 a.m.)

17 EXAMINER JONES: Mr. Feldewert, call your
18 next witness.

19 MR. FELDEWERT: Thank you, sir.

20 BRETT THOMPSON,
21 after having been previously sworn under oath, was
22 questioned and testified as follows:

23 DIRECT EXAMINATION

24 BY MR. FELDEWERT:

25 **Q. Would you state your name, identify by whom**

1 **you're employed and in what capacity?**

2 A. Brett Thompson, Centennial Resource, drilling
3 manager.

4 **Q. And, Mr. Thompson, how long have you been a**
5 **drilling manager with Centennial?**

6 A. About a year and a half.

7 **Q. And have your responsibilities included the**
8 **Permian Basin of both Texas and New Mexico?**

9 A. Yes, it has.

10 **Q. Have you previously testified before this**
11 **Division?**

12 A. No, I have not.

13 **Q. Would you please outline your educational**
14 **background?**

15 A. I got a mechanical engineering degree from the
16 Colorado School of Mines in 1998 and a minor in
17 economics and a minor in petroleum engineering.

18 **Q. And what did you do after 1998? Did you work**
19 **for various companies?**

20 A. Yes. I worked for Conoco for seven years both
21 domestically and overseas, and I worked for EOG for
22 seven years all in the Rockies, North Dakota, Wyoming,
23 Colorado, Utah. And then I worked for QEP Resources for
24 four years before coming to Centennial.

25 **Q. So you have roughly, if I'm counting right,**

1 19-and-a-half years as a drilling engineer?

2 A. That's correct.

3 Q. During that time, have you also been a drilling
4 manager?

5 A. Yes, I have.

6 Q. Okay. And are you familiar with the company's
7 plans for the east half of Section 18?

8 A. Yes, I am.

9 Q. And did you -- was this put together by your
10 team under your direction and supervision?

11 A. Yes, it was.

12 Q. And has the company, under your supervision,
13 examined the drilling requirements proposed by the BLM
14 in this area?

15 A. Yes, we have.

16 Q. And has the company, under your supervision,
17 developed the drilling plans for both -- development of
18 the 3rd Bone Spring Sand and then the pressures
19 associated with the development of the Wolfcamp?

20 A. Yes, we have.

21 MR. FELDEWERT: I would tender Mr. Thompson
22 as an expert witness in petroleum drilling engineering.

23 MR. BRUCE: I just have a couple of
24 questions. I wasn't listening.

25 THE WITNESS: Sure.

1 VOIR DIRE EXAMINATION

2 BY MR. BRUCE:

3 Q. How long have you been at Centennial?

4 A. A year and a half. I started in October of
5 2016.

6 Q. Okay. And is that your -- the extent of your
7 experience in the New Mexico Permian?

8 A. In the Permian Basin, yes, in Texas and
9 New Mexico.

10 MR. BRUCE: Okay. No objection.

11 MS. BRADFUTE: No objection.

12 EXAMINER JONES: He is so qualified.

13 CONTINUED DIRECT EXAMINATION

14 BY MR. FELDEWERT:

15 Q. Now, Mr. Thompson, if you look at Centennial
16 Exhibit Number 1, these are the C-102s for the four
17 wells. The company plans to drill each well with the
18 first take point and the last take point being 100 feet
19 off of the north and south lines, correct?

20 A. That's correct.

21 Q. And if it's -- if you run into objections or if
22 it's not approved over the objections, you would then
23 move to 330 feet?

24 A. That is correct.

25 Q. Okay. My question to you is: Assuming it is

1 approved, is it feasible, from the surface location
2 shown in Section 19, to actually perforate 100 foot off
3 of those south lines?

4 A. Yes, it is.

5 Q. If I turn to what's been marked as Centennial
6 Exhibit 12, is this a slide that you put together?

7 A. Yes, it is.

8 Q. And does it show the additional lateral length
9 that is gained with the approval of the 100-foot
10 setbacks from the first and last take point?

11 A. Yes, correct. It does.

12 Q. And am I correct that that is roughly -- I
13 forgot my number. What's the --

14 A. 460 feet.

15 Q. -- 460 feet of lateral gain.

16 And will that allow the company to access
17 additional reserves in those normally offset areas?

18 A. Yes, it would.

19 Q. And are the costs associated with the
20 additional completion worth the additional reserves that
21 will be covered?

22 A. Yes, it is.

23 Q. Okay. You note on here that your surface
24 location in Section 19 will result in an 80 degree
25 inclination; is that right?

1 A. That is correct.

2 **Q. Why did you observe that?**

3 A. Well, based on the offset of our surface
4 hole to where we only have to land 100 feet across the
5 section line, we're still building the curve, and it'll
6 be at 80 degrees when we enter -- when we get to the
7 100-foot setback.

8 **Q. And does that inclination allow to you perf at**
9 **that point?**

10 A. Yes, it does. We do it routinely in -- with
11 our experience in north Texas and New Mexico, we
12 perforate at that angle.

13 **Q. Is the acreage that's involved here, is it**
14 **within the confines of the Capitan Reef?**

15 A. Yes, it is.

16 **Q. If I turn to what's been marked as Centennial**
17 **Exhibit Number 13, does this identify the drilling area**
18 **that's involved here?**

19 A. Yes, it does. The orange box is Township 21
20 South, Range 33 East, which is the location.

21 **Q. And that is squarely, then, within the Capitan**
22 **Reef?**

23 A. Correct.

24 **Q. Or above the Capitan Reef, I should say.**

25 A. Correct.

1 Q. Have you also outlined the potash area here?

2 A. Yes. That's the red line, showing where the
3 potash boundary is.

4 Q. And will the east half of -- any drilling in
5 the east half of Section 18, will that require the
6 approval of a federal drilling permit?

7 A. That is correct.

8 Q. When you are in this area, does the BLM have
9 special casing requirements?

10 A. Yes, it does.

11 Q. And what do they mandate in this area?

12 A. That there is a four-string casing requirement.

13 Q. Okay. If I turn to what's been marked as
14 Centennial is Exhibit 14, is this an email that the
15 company obtained from a geologist at the BLM confirming
16 that the four-string requirement will apply in this
17 area?

18 A. That is correct.

19 Q. Okay. And have you, then, provided for the
20 Examiners both a written description and a depiction of
21 what is going to be required to drill both the 3rd Bone
22 Spring Sand and the Wolfcamp A in this area?

23 A. That is correct.

24 Q. If I turn to what's been marked as Centennial
25 Exhibit Number 15, is this the design requirements that

1 you put together for the Examiners?

2 A. That is correct.

3 Q. We have a written depiction on the first page
4 and then pictures, I guess, on the second page of this
5 exhibit, correct?

6 A. Correct.

7 Q. All right. Would you just walk us through
8 what's going to be required for the drilling of the 3rd
9 Bone Spring well in this area?

10 A. Okay. The four-string requirement by the BLM
11 is for certain areas within the Capitan Reef. Not all
12 of it is it required. It's only certain parts of it.
13 That's what's listed in the exhibit example from the
14 BLM. It's certain sections, townships and ranges that
15 is required, but not all. This area, this whole
16 township (indicating), is in that area. So --

17 Q. And go ahead. I'm sorry. What's required, as
18 I look at your --

19 A. So the difference from a normal well is the
20 salt string. You have to run an extra string through
21 the salt. They want that isolated before you drill into
22 the Capitan Reef, any special areas. They consider the
23 Capitan Reef a freshwater aquifer. So as soon as you
24 drill through the salts and then case those off, and
25 once you hit the Capitan Reef, you case that off before

1 you can continue drilling there.

2 **Q. Now, this same BLM requirement would apply to a**
3 **Wolfcamp well?**

4 A. That is correct, yes.

5 **Q. But are there -- because you're drilling into**
6 **the pressures of the Wolfcamp Formation, are there other**
7 **considerations that any prudent drilling operation has**
8 **to take into account?**

9 A. Correct. So in the Wolfcamp, you'll see the
10 same casing string, the same depth for the salts in the
11 Capitan Reef, but what you will notice is there is a one
12 size larger casing, and there is an additional casing
13 that is set down in the 3rd Bone Carb.

14 Based on our experience with the
15 Wolfcamp -- we've drilled only one well in New Mexico,
16 but we've drilled many wells in Texas in the Wolfcamp --
17 that you can get into the need for mud weights. I
18 labeled it as "pressure transition string." Put more
19 simply, it would require higher mud weights. Drilling
20 in the Wolfcamp, the one well that we have drilled in
21 New Mexico, we got up to 11 pound, and the Bone Spring
22 will not hold that 11 pound that's required to drill
23 that. In Texas, we've seen all the way up to 13 pound
24 equivalent in the Wolfcamp. So that string is there to
25 protect yourself from losing circulation while drilling

1 the Wolfcamp with the higher mud weights.

2 Q. Now, that fifth -- I guess you'd call it a
3 fifth string. That's required --

4 A. For the Wolfcamp, it would be a fifth.

5 Q. Since you've got to put a fifth string, what
6 does that mean for all the other uphole casings?

7 A. Yeah. So every casing above it needs to be
8 up-sized to get that additional casing string in the
9 ground.

10 Q. Adding to the cost?

11 A. Additionally, yes, adding to the cost.

12 Q. And do these additional casing strings, the one
13 required for the BLM and the second required for
14 pressures in the Wolfcamp, does that add substantially
15 to the AFEs for these wells?

16 A. Yes, it does.

17 Q. And the AFEs that were sent out with
18 Centennial's well-proposal letters, do they account for
19 the additional casing costs required by the BLM?

20 A. That is correct. Yes, they do.

21 Q. And do they account for the fifth string and
22 the larger casing size required for drilling in the
23 Wolfcamp wells?

24 A. Yes, they do.

25 Q. Now, Mr. Thompson, you mentioned that the

1 company has substantial drilling experience both in
2 Texas and has drilled wells here in New Mexico?

3 A. That is correct.

4 Q. As a result of that, is the company in regular
5 contract and have familiarity with the vendor costs that
6 are associated with drilling these wells?

7 A. Yes, we do.

8 Q. I'm trying to remember if we did this. I'm not
9 sure we did this. Would you outline briefly what
10 Centennial's drilling and completion experience has been
11 in the Permian Basin?

12 A. In the Permian Basin, we've drilled and
13 completed over 100 wells, both of those being Bone
14 Spring and Wolfcamp wells.

15 Q. Okay. And that includes wells in Texas and
16 New Mexico?

17 A. Yes, the majority in Texas. As we mentioned
18 earlier, we just got into New Mexico in September of
19 this last year. We drilled five wells -- drilled and
20 completed five wells to date, and we're currently
21 drilling on a two-well pad, drilling our sixth and
22 seventh wells.

23 Q. And these are both -- do they involve the
24 Wolfcamp A Formation -- or zone?

25 A. Yes. We have drilled one Wolfcamp A.

1 Q. And then do they also involve wells in the Bone
2 Spring Formation?

3 A. Yes. We have four Bone Spring. The two we're
4 drilling now are Bone Spring.

5 Q. How many rigs does the company have?

6 A. We have seven rigs between -- in the Permian
7 Basin, six in Texas down south and one here in
8 New Mexico.

9 Q. As a result of these activities, does the
10 company have regular vendors and surface providers that
11 it utilizes?

12 A. Yes, we do.

13 Q. So you're familiar with contacts?

14 A. Yes.

15 Q. Routinely deal with these vendors and familiar
16 with their costs?

17 A. Yes. We have anywhere from six-month to
18 two-year contracts on drilling rigs at this time.

19 Q. And Centennial's AFEs that were submitted with
20 their well-proposal letter, are they based on these
21 actual vendor costs that you-all see on a regular basis?

22 A. Yes, they are.

23 Q. Have you compared Centennial's AFEs with
24 Ascent's AFEs that the company sent out the day before
25 they filed their pooling application?

1 A. Yes. I looked through them.

2 Q. Are Centennial's AFEs higher?

3 A. Yes, they are.

4 Q. How much -- with respect to the Bone Spring
5 well, how much higher?

6 A. About \$1.2 million.

7 Q. Let's focus on the 3rd Bone Spring wells.
8 You've said that your AFE includes the BLM string costs?

9 A. Yes, it does.

10 Q. How much is that, roughly?

11 A. The additional costs for that string -- for the
12 time for the string and for the time to do it, 350,000.

13 Q. Okay. And when the company put together its
14 AFEs, it took a number of factors into account. One of
15 these would have been what is necessary to handle
16 flowback, right?

17 A. That's correct.

18 Q. And what's involved with flowback? What are we
19 talking about?

20 A. It's all -- it's processing the fluid when it
21 comes back and then also transporting the fluid and
22 disposing of the fluid, as well as when they produce,
23 they produce a lot of water that comes with the --

24 Q. So you have to be able to deal with that water?

25 A. Correct. We have to be able to deal with the

1 water disposal.

2 Q. You need facilities to deal with that water?

3 A. Correct.

4 Q. What about gas?

5 A. Yes. You do need to have gas takeaway.

6 Q. Are there -- since we're dealing with federal
7 APDs, are there air emission requirements?

8 A. Yes, there is. I don't know them specifically.
9 I'm not a facilities engineer, but both the State and
10 the BLM have air emission requirements. Yes.

11 Q. And does the company's AFEs include those costs
12 associated with the air emission requirements?

13 A. Yes. My discussions with the facilities
14 engineer and the VP of ops, our costs include all that
15 is needed to meet the requirement of air emissions.

16 Q. So in dealing with these flowback issues,
17 water, gas and air emission requirements, how much does
18 that add to an AFE for a Bone Spring well?

19 A. The difference between our AFE, if that's what
20 you're asking --

21 Q. Yes. Yes.

22 A. -- is 850 million -- \$850,000. It would be
23 offshore with those numbers (laughter).

24 Q. So that takes into account the 350,000 for the
25 additional string and then the additional cost

1 **associated with the facilities. It gets up to -- that**
2 **accounts for the \$1.2 million difference?**

3 A. Yes. That's what it looks like.

4 **Q. Now, with respect to the Wolfcamp AFEs, what's**
5 **the difference?**

6 A. The Wolfcamp is a bigger difference. It's
7 almost \$4.6 million.

8 **Q. Okay. So another net difference of about**
9 **400,000?**

10 A. Correct.

11 **Q. And what accounts for that net additional**
12 **difference for the Wolfcamp wells?**

13 A. It's taking every casing size up and having the
14 additional casing size, because we've got a fifth
15 string, and everything else has to be increased above
16 it. It costs additional to do that, to have the
17 additional casing and the larger-size casings above it.

18 **Q. In your review of Ascent's AFEs, do they appear**
19 **to include these additional necessary costs?**

20 A. They do.

21 **Q. Do they appear to include them?**

22 A. Yes. Oh, Ascent's?

23 **Q. Ascent's. I'm sorry.**

24 A. No, it doesn't. Our first look at it, the
25 drilling and completions, there is some difference

1 there. It looked like there was some casing and
2 difference in days that we assumed to drill the wells.
3 They have three or four days less than we assumed. And
4 then the Wolfcamp one definitely does not have the fifth
5 string in it.

6 The Bone Spring is hard to tell. There is
7 one liner listed. So I'm not for sure whether they have
8 that string in there or not.

9 Q. Okay. But in your opinion, Centennial's AFEs,
10 do they account for the drilling requirements that are
11 unique to this particular area?

12 A. Yes, they do.

13 Q. And do they account for the completion and
14 takeaway requirements that are going to be imposed for
15 any wells drilled in this area?

16 A. Yes, they do, for new wells in a new area.

17 Q. And do they account for the air emission
18 requirements that are imposed in this area?

19 A. Yes, they do.

20 Q. And do they reflect the actual vendor costs
21 that the company is seeing, given its experience in
22 drilling Wolfcamp and Bone Spring wells?

23 A. Yes, they do.

24 Q. Now, in addition to knowing the costs, if
25 you're going to drill in this particular area, the

1 finding [sic] operator needs access not only for your
2 water disposal and gas takeaway options, but you've got
3 to deal with completion, correct?

4 A. Correct.

5 Q. Does the company have active completion crews
6 that it's utilizing both in Texas and New Mexico?

7 A. Yes. We have two crews that are actively
8 working, have been working for us for quite a while.

9 Q. And do they bring -- do they have knowledge of
10 how to put this into place, these completion processes?

11 A. Correct. Yes.

12 Q. You'll also need access to drilling rigs,
13 right?

14 A. That's correct.

15 Q. And does the company -- you said the company
16 currently has seven active rigs?

17 A. Yes, we do, seven active rigs.

18 Q. So you have relationships with the drilling
19 rigs to get them in place when you get your APDs?

20 A. Yes, we will.

21 Q. Drilling rigs are becoming more difficult to
22 come by?

23 A. Yes. Rigs with the capabilities to drill
24 horizontals that require specifications to drill these
25 types of wells is getting tougher to find. Yes.

1 Q. In your opinion, Mr. Thompson, does the company
2 have extensive drilling experience in both the Bone
3 Spring and the Wolfcamp Formations in this area?

4 A. Yes, we do, in the Permian Basin.

5 Q. Okay. And does the company have a proven track
6 record of developing these zones in an efficient and
7 effective manner?

8 A. Yes, we do.

9 Q. And in your opinion, is the company well
10 positioned with vendors to drill, complete and produce
11 the reserves once these BLM contracts -- or permits are
12 granted?

13 A. Yes, we are.

14 Q. In your opinion, is the granting of
15 Centennial's applications in the best interest of
16 conservation, the prevention of waste and the protection
17 of correlative rights?

18 A. Yes, it is.

19 Q. Were Centennial Exhibits 12 through 15 prepared
20 by you or compiled under your direction and supervision?

21 A. Yes, they were.

22 MR. FELDEWERT: Mr. Examiner, I'd move
23 admission into evidence Centennial Exhibits 12 through
24 15.

25 MR. BRUCE: No objection.

1 MS. BRADFUTE: No objection.

2 EXAMINER JONES: Exhibits 12 through 15 for
3 Centennial are admitted.

4 (Centennial Resource Production, LLC
5 Exhibit Numbers 12 through 15 are offered
6 and admitted into evidence.)

7 MR. FELDEWERT: That concludes my
8 examination of this witness.

9 EXAMINER JONES: Mr. Bruce?

10 CROSS-EXAMINATION

11 BY MR. BRUCE:

12 Q. Just a couple of questions, Mr. Thompson.

13 A. Sure.

14 Q. Centennial's -- first, Centennial bought its
15 interest, property, from GMT in June or July of last
16 year?

17 A. The New Mexico property, that's correct. Yes.

18 Q. The New Mexico property.

19 And did GMT have approved APDs on some of
20 those properties?

21 A. Yes. We did use some of them.

22 Q. Okay. So you were able to use those APDs and
23 start drilling?

24 A. Correct, on a couple.

25 Q. Okay. And, again, at this point, you have one

1 **rig in New Mexico?**

2 A. Correct. One active rig, yes.

3 **Q. Okay. That's all I have. Thanks.**

4 MS. BRADFUTE: No questions.

5 EXAMINER JONES: Mr. Lowe? He's also a
6 mechanical engineer, so you better ask him questions.

7 THE WITNESS: Watch out.

8 (Laughter.)

9 EXAMINER LOWE: You've got one year on me.

10 CROSS-EXAMINATION

11 BY EXAMINER LOWE:

12 **Q. I got confused here. Did you say Centennial's**
13 **been in New Mexico for one-and-a-half years as**
14 **operating, or have you been with Centennial?**

15 A. I've been with Centennial a year and a half.
16 We brought our first drilling rig into New Mexico in
17 September of last year.

18 **Q. Okay.**

19 A. Yeah. So it's been about seven months now that
20 we've been drilling in New Mexico.

21 **Q. And you have 100 wells in the Permian Basin?**
22 **That's both in New Mexico and Texas?**

23 A. Correct. Yes. Five wells -- over 100 wells,
24 and we've got five wells so far in New Mexico. We're
25 drilling number six and number seven now.

1 Q. Okay. And just to clarify on something here,
2 you said that the Wolfcamp AFE for the Wolfcamp is
3 400,000 more than the Bone Spring? Is that what that
4 was?

5 A. Correct.

6 Q. Okay. That's all I've got. Thank you.

7 CROSS-EXAMINATION

8 BY EXAMINER BROOKS:

9 Q. And the main difference in those two AFEs is
10 the additional casing string, right?

11 A. That's -- between ours or --

12 Q. No. Between the Bone Spring and the --

13 A. Yes, is the additional string to go into the
14 Wolfcamp.

15 EXAMINER BROOKS: I really don't have any
16 questions.

17 CROSS-EXAMINATION

18 BY EXAMINER JONES:

19 Q. Yeah. I would go ahead and ask, additionally,
20 about this 5-1/2.

21 A. Uh-huh.

22 Q. Obviously, you need to bring it to surface on
23 the Wolfcamp, but -- or even on the Bone Spring because
24 you're going to frac down it; is that correct?

25 A. It's preferred by Completions in this area. In

1 Reeves County, we do not. We run a liner, and they frac
2 down an intermediate casing. But I was out of my realm,
3 but Completions prefers a long string 5-1/2 up here in
4 New Mexico.

5 Q. Okay. What does it consist of? Is it an 80 on
6 the bottom and an 80 on the top and J55 in the middle?

7 A. No. They run P110.

8 Q. P110 on the bottom?

9 A. Uh-huh.

10 Q. So do you have to run a DV tool on this -- on
11 the -- on the Bone Spring completions with 5-1/2, do you
12 run a DV tool?

13 A. We haven't had to. The one well that we've
14 done up here -- or the Bone Spring wells, we have not,
15 and the one Wolfcamp well, we have not had to for the
16 5-1/2 string.

17 Q. Okay.

18 A. Now, the intermediate string with the Capitan
19 Reef, yes.

20 Q. Okay. You do have to there.

21 A. Depends how it looks when we drill it. You've
22 got to get cement back to surface, so a lot of times we
23 will run it to ensure that happens.

24 Q. Okay. Yeah. You've got the reef, and then
25 above that, you've got the -- all the formations up to

1 the salt, which could be trouble also.

2 A. Yup.

3 Q. But you don't really like to frac down it if
4 it's got a DV tool in it; is that correct?

5 A. We do it. In Reeves County, we do.

6 Q. Okay.

7 A. It's not preferred, but if we need to get a
8 cement job -- at Centennial, we really believe in
9 getting the cement job on all strings, not just the
10 production string, a very good cement job. And we would
11 prefer to do that than not have a DV tool or deal with a
12 DV tool in fracking the well.

13 Q. How hard is it to get your cement in on these
14 horizontal wells?

15 A. That's a matter of opinion. Any log you run,
16 you know, some will look good, some don't.
17 Stabilization. I mean, we stabilize -- run stabilizers
18 on the casing to help keep it off the low side of the
19 hole.

20 Q. Okay. And your final -- your final pump
21 cement -- cement that goes in the horizontal section of
22 the hole, what does that consist of?

23 A. What does the cement consist of?

24 Q. Yeah. Is it -- what additives do you put in
25 it. Is it Class C?

1 A. Yeah. It's usually Class C. And then
2 additives for time, basically, and water loss. Water
3 loss is a key when you're drilling your horizontals.

4 Q. Okay. So you do lose some water?

5 A. You don't want it to dehydrate the sand
6 because --

7 Q. Yeah. Okay. I didn't know how you got it up
8 to the top of the hole.

9 A. You run a lead in the tail. So you'll run one
10 type of slurry to bring back up in the vertical and a
11 different slurry for out in the horizontal.

12 Q. Yeah. But in your horizontal, the actual top
13 of the hole is --

14 A. It's going to get the most of it.

15 Q. Okay. Okay.

16 A. Yeah.

17 Q. It's under a lot of pressure, so I guess --

18 A. The good thing is they usually complete out the
19 top.

20 Q. Okay. We don't have drilling engineers come up
21 here very often.

22 A. I get that (laughter).

23 Q. So I guess you don't want me asking you
24 questions (laughter).

25 And did you do the AFE?

1 A. No, I did not personally. A drilling engineer
2 that works for me put it together.

3 **Q. Okay. And so he has preferred providers? You**
4 **have preferred providers?**

5 A. Correct. And I should clarify that. I mean,
6 it's not just the drilling engineer. We have a drilling
7 engineer who does his portion, and the completion
8 engineer does his portions. The production engineer
9 does his portion, and the facility engineer did his
10 portion.

11 **Q. Okay. And do you still have that drilling**
12 **service in Arapahoe County there that has drill times on**
13 **a whole bunch of wells all over the United States and**
14 **you can subscribe to it if you want?**

15 A. Oh, it changed names, but I know what you're
16 talking about.

17 **Q. I thought it was called Centennial.**

18 A. It's Drilling Records.

19 **Q. Drilling Records. Okay.**

20 A. But it got bought out. I can't remember the
21 name.

22 THE WITNESS: Do you know it? You may know
23 it.

24 MR. DANIELE: It's Drilling Info now.

25 EXAMINER JONES: Drilling Info.

1 **Q. (BY EXAMINER JONES) They're calling these**
2 **wildcats -- basically, Paul's calling it wildcat.**
3 **Internally to you guys, it's -- you're going to call it**
4 **a Bone structure wildcat or a Bone cat --**

5 A. It will be a step out for us. You know, the
6 acreage we bought is to the south, and the majority of
7 our acreage is to the southeast. So this would be
8 farther north and west than we have drilled a well in
9 New Mexico yet. People on our team that are a part of
10 Centennial have drilled wells and been involved in stuff
11 in this area, but we have not yet.

12 **Q. Okay.**

13 A. We're what, two, three townships. The majority
14 of our acreage is a couple of townships to the southeast
15 where we've drilled our other five wells.

16 **Q. When you frac these wells, are you going to put**
17 **some chemical tracers in them or radioactive tracers?**

18 A. I don't know for this specific well. We have
19 done it. I do know that Centennial has used tracers
20 quite regularly, one, to determine how the completion is
21 flowing back, which stages when they've tried everything
22 else, and their spacing and stage sizes and cluster
23 spacing and all that stuff. Yes. We have done tracers
24 on wells.

25 **Q. Yeah. I guess you're primarily concerned with**

1 **getting the hole drilled efficiently and cased --**

2 A. As far as I'm concerned, yup. I drill it. I
3 get it cased, and then I move on to the next.

4 **Q. Yeah.**

5 **And as far as the toe-up concept --**

6 A. Uh-huh.

7 **Q. -- is that -- can you talk more about that? I**
8 **know the production engineers probably like it because**
9 **it drains the water down --**

10 A. Gravity, yeah. I'm not a production engineer,
11 but it makes sense to me. Gravity at the hill [sic],
12 right, less to pool?

13 **Q. Did they tell you what kind of pump they're**
14 **going to put in the well --**

15 A. No. I don't know.

16 **Q. -- after it quits flowing?**

17 A. I know both ESPs and rod pump, but that's later
18 down the line. But most of ours have been ESPs as far
19 as I know.

20 **Q. Okay. So you'll have electricity out there.**

21 **So you have a drilling foreman, and you**
22 **talk to them every morning --**

23 A. Sure.

24 **Q. -- 3:00 a.m. or whatever you guys do?**

25 A. Well, the size of operation that we have is

1 seven rigs. There are a couple of layers in there.
2 When I first started with Centennial, yes, I was the
3 drilling engineer, and we had four rigs. Two of us
4 would talk to our rigs every day. And we had a
5 superintendent in the field that also goes out and
6 supervises to help make sure -- we have four different
7 rigs going on, make sure they're doing the same thing.

8 Now we're up to seven rigs, so I do not
9 talk directly to the company men or the foremen. I talk
10 to the superintendent mostly, unless I deem I need to.
11 But I usually want to let my engineers talk directly
12 with their rigs instead of stepping on their toes.
13 Right?

14 Q. Right.

15 So your organizational structure, you have
16 a drilling superintendent that talks to all his drilling
17 foremen?

18 A. Correct. And then the drilling engineer also
19 talks to the drilling foremen and the superintendents.
20 Yes. Yes.

21 Q. Okay.

22 EXAMINER JONES: Any more questions for
23 this witness?

24 EXAMINER BROOKS: No.

25 MR. FELDEWERT: No, sir.

1 EXAMINER JONES: Okay. Thank you very
2 much.

3 THE WITNESS: Yup.

4 MR. FELDEWERT: Mr. Examiner, we have one
5 more witness. I note the time. So my suggestion is
6 maybe we come back and start with our witness. It
7 shouldn't take very long, about the same amount of time
8 here.

9 And you've got three.

10 EXAMINER BROOKS: I'll be back at 1:30.

11 EXAMINER JONES: Okay. We're going 'till
12 1:30 then. Thank you very much.

13 (Recess, 11:27 a.m. to 1:37 p.m.)

14 EXAMINER JONES: Mr. Feldewert, can you
15 call your next witness?

16 MR. FELDEWERT: Certainly.

17 GRANT MORBY,
18 after having been previously sworn under oath, was
19 questioned and testified as follows:

20 DIRECT EXAMINATION

21 BY MR. FELDEWERT:

22 **Q. Would you please state your name, identify by**
23 **whom you're employed and in what capacity?**

24 A. Grant Morby, Centennial Resource Development,
25 and I'm the reservoir engineering manager.

1 Q. And how long have you been a reservoir engineer
2 involved with the Permian Basin of Texas and New Mexico?

3 A. It's been three -- about three years.

4 Q. Okay. Have you previously testified before
5 this Division?

6 A. No, sir, I have not.

7 Q. What's your educational background?

8 A. I have a Bachelor of Science in petroleum
9 engineering from the University of Texas at Austin, and
10 I'm a member of SPE.

11 Q. How long have you been a member of SPE?

12 A. Since graduating from college in 2009.

13 Q. Okay. Now, beginning in 2009, who did you go
14 to work for?

15 A. I went to work for EOG Resources, and I worked
16 there for seven years before coming on board with
17 Centennial.

18 Q. During that time, did you work in the Permian
19 Basin with EOG?

20 A. Yes, sir. I worked for two years in EOG's
21 Midland Division, operating out of the Permian Basin.

22 Q. Work with Pat Tower?

23 A. I did.

24 Q. He's a good guy over there.

25 Are you familiar with the application

1 that's been filed in these consolidated cases?

2 A. Yes, sir, I am.

3 Q. And do you have experience in developing the
4 Bone Spring and the Wolfcamp Formations in the Permian
5 Basin of New Mexico?

6 A. Yes, sir, I do.

7 Q. Both by virtue of your current employment and
8 prior employment?

9 A. Yes, sir.

10 Q. Okay.

11 MR. FELDEWERT: I would tender Mr. Morby as
12 an expert witness in petroleum engineering.

13 MR. BRUCE: I have no objection provided he
14 spells his name for me.

15 EXAMINER JONES: Can you spell your name?

16 THE WITNESS: Yes. G-R-A-N-T. And last
17 name is M-O-R-B-Y.

18 EXAMINER JONES: We won't make you spell
19 Austin.

20 (Laughter.)

21 MR. BRUCE: I wasn't too far off.

22 No objection.

23 MS. BRADFUTE: No objection.

24 EXAMINER JONES: So qualified.

25 Q. (BY MR. FELDEWERT) Mr. Morby, you were here for

1 **Mr. Thompson's testimony where he identified the**
2 **drilling and completion experience the company has both**
3 **in Texas and New Mexico?**

4 A. Yes, sir, I was.

5 Q. And you bring that equation, also, the
6 **experience you've had with EOG in the Permian Basin of**
7 **New Mexico, correct?**

8 A. Yes, sir.

9 Q. Okay. Does the -- does Centennial have a
10 **completion, I guess, process or design procedure that**
11 **has proven to be effective in the Wolfcamp and the Bone**
12 **Spring Formations in both Texas and New Mexico?**

13 A. Yes, sir. I believe we do.

14 Q. And what would you call it? A process, design
15 **or --**

16 A. It's not a simple recipe of the amount of sand
17 and the fluid system that you're using. There's a lot
18 of intricate details that go into a completion design,
19 including but not limited to the pump schedule that's
20 utilized, the perforation charges that are used to
21 perforate the casing, the number of clusters per stage
22 that you're using, the slurry rate that you're pumping
23 at, what is your pump rate per cluster that you're
24 delivering to that reservoir, the experience in putting
25 these designs and intricate details together from your

1 completion engineer, how that is then passed down to
2 experienced frac consultants, which are hands and boots
3 on the ground in the field, and then having a frac fleet
4 that's employed a similar type of stimulation before.

5 Q. So you may have answered my question. I guess
6 there is no magic formula, right?

7 A. Right.

8 Q. Can two companies use the same design, slurry
9 rates and all the stuff you just went through and have
10 different success rates?

11 A. Yes.

12 Q. Is the success dependent, then, upon your
13 ability not only to design it but then execute it?

14 A. Yes, sir, it is.

15 Q. And as part of the execution process, do you
16 need completion crews who are experienced in both the
17 zones that you're working in and with that process?

18 A. I believe so.

19 Q. Does Centennial have within its company active,
20 dedicated frac or completion crews with that necessary
21 experience?

22 A. Yes, sir. We have two dedicated fleets
23 currently.

24 Q. And where are they operating?

25 A. They operate between Texas and New Mexico as

1 needed. Currently, we're running a one-rig program in
2 New Mexico, so that doesn't warrant a dedicated fleet in
3 New Mexico, so they bounce back and forth across the
4 state line.

5 Q. So you have two crews that work across the
6 state line?

7 A. Yes, sir.

8 Q. But in the Permian Basin?

9 A. In the Permian Basin.

10 Q. And work in the Bone Spring zones -- Formation?

11 A. Yes, sir.

12 Q. Wolfcamp Formation?

13 A. Yes, sir.

14 Q. And use the company's pride and proven
15 completion design, process techniques?

16 A. They do.

17 Q. And do you have examples for the Examiners of
18 the success that Centennial has had with bringing its
19 experienced and proven completion process to New Mexico?

20 A. I do.

21 Q. Okay. And these are examples in New Mexico?

22 A. Yes, sir, they are.

23 Q. All right. Let's turn to what's been marked as
24 Centennial Exhibit Number 16. What do you show here,
25 starting with the inlet box?

1 A. The inlet box is a map, and it's showing
2 Township 22 South and Range 34 East. This is what
3 Centennial calls our Pryor prospect area. It's a
4 portion of our acreage that we acquired from GMT.

5 **Q. Let me stop you there. It's P-R-Y-O-R?**

6 A. Yes, sir.

7 **Q. Okay. Go ahead.**

8 A. All of these wells are targeting the 2nd Bone
9 Spring Sand interval. They're in similar geologic
10 settings and having similar net sand in the 2nd Bone
11 Spring Sand interval.

12 And I'll start with the oldest well in this
13 data set, which is the Merchant GAP 25 State Com 1H,
14 which is a well drilled and completed by GMT back in
15 2014, targeting the 2nd Bone Spring Sand. It's shown in
16 red on the graph, which is a cumulative oil versus time
17 plot.

18 The next well that was drilled and
19 completed was the Godfather 36 State Com 1H, drilled and
20 completed by GMT. Its result is shown in yellow on the
21 cumulative oil versus time plot.

22 The next well was the Tour Bus 23 State
23 502H, drilled and completed by EOG Resources, and this
24 well is shown in gray. Since then -- since acquiring
25 the GMT assets, Centennial has gone back into this

1 section, offset the original 502H well from EOG and
2 drilled and completed the Tour Bus 23 State 503H and
3 504H, which are shown in two different shades of green.
4 And this is showing wells in similar geologic settings
5 and us employing our completion techniques and
6 implementations and execution in the field versus some
7 of the Legacy wells from GMT.

8 Q. Now, does Centennial -- I know there is no
9 magic formula, but do they kind of follow what EOG has
10 successfully done?

11 A. Yes, sir. Two of our engineers were employed
12 by EOG Resources previous to Centennial, and I can say
13 that our design is similar to that of EOG's.

14 Q. And so the two wells that you've drilled, do
15 you expect a similar profile that you see of the EOG
16 well?

17 A. Yes, sir, we do.

18 Q. Okay. Now, what is the basis, in your opinion,
19 of the performance difference that we see between the
20 wells shown with the green and the yellow and the red?

21 A. I would say that it's got -- it comes down to a
22 refined target interval. So our geosteerers try to keep
23 the bit within a 20- to 30-foot target interval of the
24 best rock quality. GMT, I can't state anything factual
25 about what their target interval was within the 2nd Bone

1 Spring Sand, but I would say it's a combination of
2 refinement of that target interval and also completion
3 design and execution in the field.

4 Q. Is it your opinion -- we've made note of the
5 fact that the company intends to start with the lower
6 zones and then complete -- or develop as you move
7 uphole, for lack of a better word.

8 A. Yes, sir.

9 Q. Is that -- do you agree that that's an
10 important methodology, if you're there to actually fully
11 develop the acreage?

12 A. Yes, sir. I believe it is.

13 Q. Does that assist in refining the target
14 interval for the upper zones?

15 A. It does.

16 Q. And in your opinion, is that one of the
17 benefits that occurred here, was that you had lower
18 development to help define the upper target zone?

19 A. Yes, sir. We have numerous 3rd Bone Spring
20 Sand wells in this prospect area. They're not shown on
21 this map, but we had a good idea of what our target
22 interval was going to be from those previous wells.

23 One of our corporate goals is to hit 65,000
24 net barrels of oil per day for the company by 2020, and
25 these assets, we look to fully develop and assist in

1 getting there to that goal.

2 Q. Any other aspect of this performance, you said,
3 was the completion process?

4 A. Yes, sir.

5 Q. Do you have another example?

6 A. Yes, I do.

7 Q. Let's turn to what's been marked as Centennial
8 Exhibit Number 17?

9 A. Yes. So this is Township 24 South, Range 34
10 East. This is a prospect area that Centennial knows as
11 Solomon. These two wells are targeting the 2nd Bone
12 Spring Sand.

13 The Pirate State 1H was drilled and
14 completed by GMT back in 2014.

15 The Romeo Fed Com 1H was actually drilled
16 by GMT also. It was a wellbore drilled -- uncompleted
17 wellbore that was acquired when we acquired the acreage.
18 They offered to complete the well themselves, and we
19 said we'd like to take a shot at it. So this is the
20 same geologic setting and same targeting, at least
21 standards, between the wells. So the only difference
22 that I see here warranting the performance is the
23 completion design and the execution of that completion
24 design in the field.

25 Q. They were both drilled in the same target

1 **zones?**

2 A. Yes, sir.

3 **Q. Do you have another example?**

4 A. I do. I have one more.

5 **Q. Let's go to Centennial Exhibit Number 18.**

6 A. So this is also Township 24 South, Range 34
7 East. This is, once again, our Solomon prospect area.
8 These two wells are targeting the Wolfcamp A interval,
9 so the deeper interval. The Sheba Fed Com 1H was GMT's
10 well that they drilled and completed at the end of 2016.
11 It was their last producing well that they brought on
12 line before our acquisition of their acreage. And it
13 was their first attempt at a slickwater design.

14 And since then, we've gone in and drilled
15 our Juliet Fed Com 1H. This is drilled and completed by
16 Centennial. We don't have a ton of data yet. It turned
17 on a few weeks ago, but we're very encouraged with the
18 results.

19 **Q. And, again, the difference you see in the**
20 **results, in your opinion, what's that based on?**

21 A. I believe it's going to be, once again, the
22 targeting within this interval, since two different
23 drillers had two different target intervals that they
24 were drilling, but also the completion design between
25 the two wells.

1 Q. Anything else about this slide?

2 A. No, sir.

3 Q. Okay. Now, Mr. Morby, were you involved with
4 meetings with Ascent Energy?

5 A. Yes, sir, I was.

6 Q. And based on -- to your knowledge, has Ascent
7 drilled and completed any Bone Spring or Wolfcamp wells
8 in New Mexico?

9 A. Not to my knowledge.

10 Q. In your opinion, is there going to be a
11 learning curve both in terms of targeting and in
12 executing the completion process?

13 A. I believe there will be, yes.

14 Q. Let me ask you: In those meetings -- you were
15 here for the testimony where they were quizzing the
16 company about the completion process it utilizes?

17 A. Yes, sir.

18 Q. And finding out information about that?

19 A. They were asking about our practices. Yes.

20 Q. Even if Ascent is able to copy your design,
21 okay, does that mean that they're going to have the same
22 success rate that you have proven here in New Mexico?

23 A. Not necessarily.

24 Q. And why is that?

25 A. I believe, at least from our experience, there

1 is a learning curve out in the field, getting -- getting
2 frac fleets kind of lined out to pump these kind of
3 designs and having experienced completion consultants
4 that are used to the kind of pressures and formations
5 that we're dealing with out here. And then, yeah, it
6 just gets down to execution in the field and some of the
7 intricate details that really don't come off the page in
8 terms of his reporting or FracFocus.

9 Q. Okay. Mr. Morby, I apologize. I don't have a
10 copy of the order in front of you, but I gave the
11 Examiners an order, Order Number R-14518. Okay?

12 A. Yes.

13 MR. FELDEWERT: And I would invite the
14 Examiners to go to page 7 of that order.

15 Q. (BY MR. FELDEWERT) Mr. Morby, I'm going to
16 represent to you that in this order, after examining the
17 evidence, the conclusion of the Division was that
18 Mewbourne should be -- that their pooling application
19 should be granted. Okay?

20 A. Okay.

21 Q. And I'm looking at paragraph 20, and it said,
22 "Mewbourne" -- a successful operator here -- "provides
23 sufficient evidence establishing a greater capacity to
24 prudently operate the property based on successful
25 drilling operations for the targeted interval in this

1 area, along with active production in its existing
2 horizontal well completed...." And then it identifies
3 the area. Okay?

4 A. Okay.

5 Q. With that in mind, in your opinion, does
6 Centennial, due to its experience, have a greater
7 capacity to prudently operate the property based on
8 successful drilling operations in New Mexico in these
9 zones?

10 A. I believe so.

11 Q. And part of that success is based on actual
12 experience, right?

13 A. Yes, sir.

14 Q. And is it your opinion that it's hard to be
15 successful until you actually gain that experience?

16 A. Yes, sir. I believe so.

17 Q. I want you now to turn back to Centennial
18 Exhibit Number 10. This is Centennial's stage 1
19 development plan under the -- the proposals that it
20 submitted both to Ascent and the Division under its
21 pooling applications; is that correct?

22 A. Yes, sir.

23 Q. It follows exactly what we proposed and what we
24 submitted?

25 A. Yes, it does.

1 Q. Did you participate in the development of this
2 plan?

3 A. Yes, sir, I did.

4 Q. And in your expert opinion, do you agree that
5 it's prudent to develop the 3rd Bone Spring Sand with
6 the Wolfcamp A Sands before developing the 2nd Bone
7 Spring Sand?

8 A. Yes, sir, I do.

9 Q. And why is that?

10 A. When we're here to develop all potential
11 horizons, the best course of action is to drill a deep
12 well first, log the intervals, get a look at what each
13 of the target intervals is, what potential pay is there,
14 potential targets for the future so that we -- as we're
15 developing the lower intervals, we can start evaluating
16 and picking our targets for the upper intervals and our
17 ultimate development plan.

18 Q. Is that what companies do if they actually
19 intend to fully develop, is my ultimate question?

20 A. Yes, sir.

21 Q. And in putting together this plan, do you agree
22 that this has the proper spacing and wine-rack pattern
23 to simultaneously -- to prudently and effectively and
24 simultaneously develop these two zones?

25 A. Yes, sir.

1 Q. Okay. With respect to your 3rd Bone Spring
2 Sand targets depicted on here, what sands are you
3 targeting?

4 A. We were targeting the basal lobe of the 3rd
5 Bone Spring Sand.

6 Q. And why are you doing that?

7 A. That is, in our opinion, the best rock quality
8 of the 3rd Bone Spring Sand interval, and it has been
9 drilled by industry all over the area.

10 Q. The basal sands?

11 A. Yes, sir.

12 Q. B-A-S --

13 A. B-A-S-A-L.

14 Q. Okay. So in your opinion, if you're going to
15 develop the 3rd Bone Spring Sand, you should start with
16 the basal sands?

17 A. In our opinion, yes.

18 Q. Now, with respect to the spacing that's shown
19 here, both the wine rack and the 1,320-foot spacing,
20 would you explain why that's important to efficiently
21 and effectively develop these two zones simultaneously?

22 A. Yes, sir. So the 3rd Bone Spring Sand,
23 comparing it to the Wolfcamp A interval, has overall
24 better porosity and permeability in the area as
25 developed by other operators in the industry. The

1 standard has been four wells per section or 1,320-foot
2 spacing in zone, so we believe that was a good target or
3 a good starting point for our development plan. You
4 want to space these out because they have -- you know,
5 they have wider drainage due to the enhanced
6 permeability.

7 Of the two zones, we believe that the 3rd
8 Bone Spring Sand is the better of the two intervals, but
9 there is still hydrocarbons and good resource to be
10 produced out of the Wolfcamp. So our stack-stagger plan
11 was really established based off of the 1,320 spacing
12 first in the 3rd Bone Spring Sand, and then our Wolfcamp
13 wells were put equidistant away from these 3rd Bone
14 Spring Sand wells. So if you're looking on a map, they
15 look like they're 660 feet away between the Wolfcamp --
16 or the 3rd Bone and the Wolfcamp, 220-foot TVD
17 difference.

18 And what we've noticed from microseismic
19 data in this Basin and kind of general engineering
20 principles, the deeper the target interval, the higher
21 the pressure in the Permian. That's why when Brett
22 testified, he talked about adding an additional string
23 of casing for the Wolfcamp due to the increased
24 pressures in the Wolfcamp. So when we're stimulating
25 these wells, the fluid, it is goes out into the

1 reservoir, builds net pressure, cracks the rock, and
2 then it wants to escape. And the place that it wants to
3 escape to is to lower pressure, going from high to low
4 pressure, so it moves upwards, and it goes out of the
5 zone or vertically.

6 Now, our completion design is such with
7 slickwater and 100 mesh proppant, so there is not much
8 carrying capacity. So you don't have -- you don't have
9 proppant moving upwards. It actually tends to settle
10 around the wellbore. But you do have fluid trying to go
11 from high to low pressure, and generally the tendency is
12 to go upward. So we didn't want to put these Wolfcamp
13 wells beneath our 3rd Bone Spring wells or close to them
14 to give all four wells the best chance to produce the
15 most hydrocarbons and not waste resource.

16 **Q. So in your opinion, is it necessary to**
17 **simultaneously develop these zones to avoid waste?**

18 A. Yes, sir. I believe it is.

19 **Q. And in your opinion, is the spacing in the**
20 **wine-rack pattern, as reflected on here, the most**
21 **efficient and effective way to accomplish that goal?**

22 A. Yes, sir. I believe it is.

23 **Q. And especially in this geologic setting where**
24 **you have the proximity of the zones and then the absence**
25 **of a mechanical barrier between the 3rd and the**

1 **Wolfcamp?**

2 A. That's correct.

3 **Q. Okay. Is this experience -- is this how the**
4 **industry does it, Mr. Morby, the zones?**

5 A. We have observed this in the mapped areas that
6 you saw on the previous exhibits. EOG Resources did it
7 with their Della 29 wells. There are two wells, one in
8 the 3rd Sand, one in the Wolfcamp, and they're generally
9 offsetting one another. In other parts of the Basin
10 where the 3rd Bone Spring is not as prospective, you
11 will see down-spacing in the Wolfcamp, and that's
12 because there is not two prospective zones. But with
13 two prospective zones, we feel that the best development
14 plan is to wine-rack stagger these wellbores.

15 **Q. Has Centennial itself actually utilized this**
16 **spacing pattern in a similar geologic setting?**

17 A. We have. Down in Reeves County, we're very
18 active down there, and we develop multiple benches and
19 sometimes within the same bench of the Wolfcamp, similar
20 TVD differences, similar map view -- or spacing between
21 the stagger patterns. And we do this kind of
22 development and we do it at the same time or -- you
23 know, we co-develop both zones as to prevent waste
24 because there tends to be -- if you come in afterwards
25 and drill a subsequent well, there tends to be

1 parent-child relationship, communication between the
2 wells during the stimulation.

3 So you have a parent well in one of the
4 target zones that has started production, started
5 depleting fluid out of the reservoir. Therefore, the
6 pressure is drawn down for this parent well. We come in
7 with a subsequent well at similar TVD differences and
8 stagger distances. And instead of the fluid coming into
9 the reservoir, creating net pressure and then cracking
10 the rock like we want it to, it tends to move towards
11 the lower pressure, fill that void up before it can
12 actually do what it's supposed to do, crack the rock and
13 we can propagate that fracture and produce the resource
14 out of there.

15 We've observed this numerous times in Texas
16 with similar staggered patterns, and so we believe, with
17 this geologic setting, that it's prudent to develop both
18 of these sections at the same time.

19 **Q. If I turn to what's been marked as Centennial**
20 **Exhibit Number 19 --**

21 A. Yes, sir.

22 **Q. -- is this an example of the simultaneous**
23 **development that you were discussing between the 3rd**
24 **Bone Spring Sand and the Wolfcamp A?**

25 A. Yes, sir, it is.

1 **Q. Would you explain to us what is shown on this**
2 **exhibit?**

3 A. Yes. So these are the two EOG Resource
4 drilled-and-completed wells. The Della 29 Fed Com 602H
5 is the 3rd Bone Spring Sand well. What I have done is I
6 have pulled the data within the mapped area in the
7 previous exhibits to just wells that have lateral
8 lengths between 4,000 and 5,000 feet of affected treated
9 lateral. And so you can see on the 3rd Bone Spring
10 Sand, on the left-hand side of the page, that that well
11 is one of the best 3rd Bone Spring wells in this
12 development or mapped area.

13 On the right-hand side, you see another
14 cumulative oil versus time plot. This is the Della 29
15 Fed Com 701H. This was co-developed, so these wells
16 were drilled together and completed together. And you
17 can see that that well is average, if not above average,
18 for the Wolfcamp wells in the area, and so this kind of
19 shows the importance of that co-development of both
20 zones.

21 **Q. Did you have the same wine-rack pattern there?**

22 A. Yes. These wells are spaced 880 feet apart
23 between -- you know, the lateral view between the two
24 wellbores is 880 feet, but one in the 3rd Sand and one
25 in the Wolfcamp.

1 Q. Okay. Now, if I turn to Centennial Exhibit
2 Number 11, is this the Ascent development plan as they
3 proposed it to you in the well-proposal letter?

4 A. Yes, sir, it was.

5 Q. Exactly what they proposed?

6 A. Yes.

7 Q. Okay. And do you have an opinion about the
8 feasibility and the success rate that would be
9 attributable to this type of development plan proposed
10 by Ascent?

11 A. Yes, sir.

12 Q. And what are those opinions?

13 A. Well, we'll first start in kind of the Phase 1
14 or what we call it for our development pattern in the
15 3rd Bone Spring Sand in the Wolfcamp intervals. I would
16 have preferred to have two 3rd Bone Spring wells in
17 this -- in this development pattern. Whereas, they're
18 showing a single well in the 3rd Bone Spring Sand. I
19 believe the 3rd Bone Spring Sand is, in our opinion, the
20 better target interval. We have similar wells in the
21 Wolfcamp that are planned, but I do not believe a single
22 3rd Bone Spring Sand well will drill -- will drain
23 effectively the 320 acres.

24 Q. Is it appropriate to use a single 3rd Bone
25 Spring well if you're going to efficiently and

1 **effectively and simultaneously develop these two zones?**

2 A. No, sir. I believe if -- even if you came back
3 and planned a subsequent 3rd Bone Spring Sand well,
4 these wells -- you know, these TVD differences between
5 the wells and the lateral spacing between them, that you
6 would, in my opinion, start to encounter parent and
7 child relationships and the ineffectiveness of a
8 stimulation -- or less efficient stimulation.

9 **Q. In your opinion, does this development plan**
10 **proposed by Ascent for the 3rd Bone Spring Sand in the**
11 **Wolfcamp risk causing waste?**

12 A. I believe you risk leaving hydrocarbons behind,
13 especially in the 3rd Bone Spring Sand.

14 **Q. And that's because of the depletion impacts?**

15 A. Yes, sir.

16 **Q. Is it also a function of their current spacing?**

17 A. It's a function of the current spacing with a
18 single well planned in the 3rd Bone Spring.

19 **Q. Okay. Now, also, are you aware that with**
20 **our -- Centennial's drilling plan, it's going to have**
21 **the ability to drill within the zones toe up?**

22 A. Yes, sir, I do.

23 **Q. And there are some questions about that. Is it**
24 **important to drill toe up when it's possible?**

25 A. Yes, sir, it is.

1 **Q. Why is that?**

2 A. When you have a toe-up situation with a well,
3 gravity works in your favor to migrate the fluids down
4 to the heel of the well, is what we call it, where we
5 land the curve, and fluids will tend to accumulate in
6 this sump. And then you have shortened the distance
7 that fluids have to make it from this sump to your
8 artificial lift system. And this is usually applicable
9 in the late lives of the wells when there is not much
10 energy left in the reservoir. So we're talking 20 to 30
11 years into the production life where you're most likely
12 on rod and beam lift, by that point in the well's life.

13 And in the Permian Basin, with the amount
14 of water that is produced along with the oil, you have a
15 lot of liquids to recover in order to effectively
16 recover hydrocarbons also. So I think it's definitely
17 important, especially in the Permian.

18 **Q. Is it always possible to drill toe up?**

19 A. It's not always possible. There are surface
20 limitations, unit orientations, pipelines to avoid. I
21 mean, you name it out there. We do not always have the
22 opportunity -- always have the opportunity to drill toe
23 up.

24 **Q. But here you do?**

25 A. We do.

1 Q. In your opinion, will Centennial's proposal to
2 drill from south to north promote the accumulation of
3 liquids on the heel?

4 A. Yes, sir, it will.

5 Q. Will it extend the life of the well?

6 A. I believe it will. I believe it will lower the
7 abandonment pressure that's possible with the artificial
8 lift system and result in more hydrocarbons being
9 produced in the lifetime of the well.

10 Q. Okay. In your opinion, Mr. Morby, in addition
11 to all these points, will Centennial's proposal to place
12 the first take point and the last take point 100 feet
13 from the in-lines result in additional recovery of
14 reserves?

15 A. Yes, sir. I believe it will.

16 Q. In your opinion, Mr. Morby, should Ascent's
17 applications be denied?

18 A. Yes, sir.

19 Q. In your opinion, will their proposed
20 development plan result in waste?

21 A. Yes, sir. In my opinion, it will.

22 Q. In your opinion, is the granting of
23 Centennial's applications in the best interest of
24 conservation, the prevention of waste and the protection
25 of correlative rights?

1 A. Yes, sir.

2 Q. Were Centennial Exhibits 16 through 19 prepared
3 by you or compiled under your direction and supervision?

4 A. They were.

5 MR. FELDEWERT: Mr. Examiner, I'd move
6 admission into evidence Centennial's Exhibits 16 through
7 19.

8 MR. BRUCE: No objection.

9 MS. BRADFUTE: No objection.

10 EXAMINER JONES: Exhibits 16 through 19 for
11 Centennial are admitted.

12 (Centennial Resource Production, LLC
13 Exhibit Numbers 16 through 19 are offered
14 and admitted into evidence.)

15 MR. FELDEWERT: And that concludes my
16 examination of this witness.

17 CROSS-EXAMINATION

18 BY MR. BRUCE:

19 Q. Yes, Mr. Morby, looking at your Exhibit 16,
20 this is in 22 South, 34 East. How far away from it is
21 Section 18 that we're dealing with today?

22 A. My estimate, 20 to 30 miles.

23 Q. And the next two exhibits are from 24 South, 34
24 East. How far away are those wells?

25 A. Oh, goodness. Farther than -- farther than 20

1 to 30 miles.

2 Q. It's not quite -- is it fair to say it's not
3 quite in the area of Section 18, the plat that the
4 geologist used?

5 A. It is not. That's correct.

6 Q. And it looks like on each of these, 16, 17, 18,
7 the better wells are drilled from north to south?

8 A. That's true for 16 and 18 and 19 -- or 16, 17,
9 18.

10 Q. Now, you were talking about your completion
11 process. You consider that proprietary, correct?

12 A. Yes, sir, we do.

13 Q. If you have working interest partners, do you
14 share that information with them?

15 A. We do.

16 Q. But you weren't willing to share it with
17 Ascent?

18 A. Not current -- we have not yet. No, sir.

19 Q. Okay. And looking at Exhibits 16 and 17, which
20 are the 2nd Bone Spring, you don't have any equivalent
21 information on the 3rd Bone Spring, do you, at least
22 that you're presenting today?

23 A. No, sir. These examples are from the 2nd Bone
24 Spring Sand.

25 Q. Thank you.

1 MS. BRADFUTE: No questions.

2 EXAMINER JONES: No questions?

3 Mr. Lowe?

4 CROSS-EXAMINATION

5 BY EXAMINER LOWE:

6 Q. Just to clarify on my end, you stated that
7 you're shooting for 1,320-foot target interval for these
8 wells?

9 A. Yes, sir.

10 Q. And you had indicated on one of the wells,
11 they're 850 feet apart. Which ones were those? Were
12 they all about the same? I don't know if I got that
13 right.

14 A. Which example was that?

15 Q. I don't recall as far as what you indicated,
16 but I can probably research on my side.

17 A. Okay.

18 Q. That's all I've got for now. Thank you.

19 EXAMINER JONES: Mr. Brooks?

20 CROSS-EXAMINATION

21 BY EXAMINER BROOKS:

22 Q. There was an exhibit that had a bunch of arrows
23 going different directions and some circles with various
24 colors that I think are a cross section of drain holes.
25 Which exhibit was that?

1 A. Is it 10?

2 MR. FELDEWERT: The development plan?

3 Q. (BY EXAMINER BROOKS) 10 is one of them. There
4 is another one like it that has the arrows -- where the
5 arrows --

6 A. 11?

7 Q. -- are going in different directions. Well,
8 no, that one is not going different directions. They're
9 different sequences. I was looking at 11.

10 Okay. 10 -- yeah, that's right. 10 was
11 the one you were talking about, right?

12 A. Yes, sir.

13 Q. Which of these is your plan, and which of these
14 is Ascent's plan?

15 A. Exhibit 10 is Centennial's plan, and Exhibit 11
16 is Ascent's plan.

17 Q. Okay. So you're going to -- I don't know about
18 wine racks because wine never stays in my house long
19 enough.

20 (Laughter.)

21 MR. FELDEWERT: I'm not commenting on that
22 one.

23 (Laughter.)

24 Q. (BY EXAMINER BROOKS) I believe what you're
25 planning to do is drill -- is drill the 2nd Bone Spring

1 wells 1,320 feet apart. And you're drilling the 3rd
2 Bone Spring wells 320 feet apart, and you're drilling
3 the Wolfcamp wells 320 feet apart?

4 MR. FELDEWERT: Mr. Examiner, let me stop
5 you right there. I think you meant to say "13."

6 EXAMINER BROOKS: 1,320 feet. No one wants
7 you to drill them 320 feet apart.

8 Q. (BY EXAMINER BROOKS) But they're -- no one of
9 them is going to be in a vertical direction lined up
10 with the others. In other words, you're going to
11 have -- your 2nd Bone Spring wells are going to be kind
12 of in the middle, and your 3rd Bone Spring wells are
13 going to be off to the left, and your Wolfcamp wells are
14 going to be farther off to the right than your -- than
15 your 2nd Bone Spring wells, right?

16 A. Yes, sir.

17 Q. So I guess after hearing it a couple of times
18 as discussed, I kind of understand what you're doing.
19 Your testimony was that that has certain advantages?

20 A. Yes, sir. We believe it does.

21 Q. Why would it -- since these wells are displaced
22 substantially in the vertical, do you believe they'll
23 affect one another?

24 A. I believe that the TVD distance between the 3rd
25 Bone Spring Sand and the Wolfcamp, it's important to

1 stagger those targets. With our experience, 220-foot
 2 TVD -- we've seen interactions in other portions of the
 3 Basin, namely in Reeves County, in the Wolfcamp. We are
 4 not as concerned about staggering the 2nd Bone Spring
 5 Sand and 3rd Bone Spring Sand.

6 Q. Okay. And TVD means true vertical depth?

7 A. Yes, sir.

8 Q. And that's the difference between the elevation
 9 of the well at the surface and the elevation of the
 10 lowest part of the hole?

11 A. That's just -- that's just looking in the
 12 vertical sense, straight down.

13 Q. Yeah. Right.

14 Okay. Then when you go to their plan --
 15 Exhibit Number 11 is Ascent's plan, right?

16 A. That's correct.

17 Q. And, now, did you ever figure out if they
 18 really want that well in the 2nd Bone Spring or if that
 19 was a result of a misunderstanding or misrecording of
 20 data?

21 A. From what I know, that's where the original
 22 well was proposed. When they came to the meeting with
 23 us, they let us know that they were up on a mesa with
 24 their location, and they had originally intended for it
 25 to be in the 2nd Bone Spring Sand.

1 Q. Okay. So you're fairly sure that they want one
2 2nd and one 3rd Bone Spring plan like you've drawn it
3 and not something else?

4 A. I'm fairly -- from what they have proposed, I
5 believe that they wanted two wells in the 2nd Bone
6 Spring Sand and then two wells in the Wolfcamp A and one
7 well, that we know of so far, in the 3rd Bone Spring
8 Sand.

9 Q. Okay. So they want -- they want three wells in
10 the Bone Spring, two in the 2nd and one in the 3rd?

11 A. Yes, sir.

12 Q. That's your understanding?

13 A. That's my understanding.

14 Q. You only show two of those here, right?

15 A. The two in gray, I believe, were supposed to be
16 2nd Bone Spring Sand targets. The one in yellow is the
17 single 3rd Bone Spring Sand. Yes, sir.

18 Q. Oh, oh. It's going to be really close
19 vertically to the Wolfcamp, right, 150 feet? And yours
20 are going to be 220 feet?

21 A. We -- we don't have a firm understanding of
22 where their target interval is within the Wolfcamp, so
23 that's just our best estimation based on the plats.

24 Q. The next the question I was going ask is
25 something different. Does it have any significance?

1 **What would your answer be to that?**

2 A. I'd rather have slightly more vertical distance
3 between the two targets, if possible.

4 **Q. But at this point, you don't really know where**
5 **the best rock is?**

6 A. We believe, in the 3rd Bone Spring Sand
7 interval, the best target is the basal 3rd Bone Spring
8 Sand, in our opinion, of the rock quality. And then our
9 second interval down there will be the Wolfcamp A
10 interval, which is what we drilled our Juliet Fed Com 1H
11 in.

12 **Q. Okay. Now, exactly what is it that you think**
13 **is going to be -- cause waste about Ascent's plan?**

14 A. The single well that was proposed in the 3rd
15 Bone Spring Sand, generally this resource -- or this
16 interval is drilled with four wells per section at 1,320
17 spacing in zone. I don't believe that a single well
18 will be able to drain 320 acres of this reservoir and,
19 therefore, will leave reserves behind.

20 **Q. And even if they drilled it fairly far off**
21 **toward the right, as you've shown, you still wouldn't**
22 **have room -- well, if you drilled another one off to the**
23 **left, that would still -- it would still interfere?**

24 A. If you drilled a subsequent well after drilling
25 these original three wells in the 3rd Bone Spring Sand,

1 I believe that you're putting yourself at risk of
2 encountering parent-child interaction between the wells
3 due to pressure depletion or pressure sinks.

4 Q. I didn't fully understand that, but I did kind
5 of understand probably as much as I'm going to. That's
6 good enough.

7 The rest of your lecture was mostly about
8 your completion techniques, right?

9 A. Yes, sir.

10 Q. Now, when I go to these, that starts with 16.
11 Let's see. Now, on 16, the exhibit -- the two wells
12 that don't seem to be as productive are farther off to
13 the south and west. Do you think that might be an
14 explanation for the differences in that set of wells?

15 A. From our mapping and looking at the net sand
16 within the 2nd Bone Spring Sand, they're actually in
17 similar geologic settings, so I think the pay quality is
18 similar between the two.

19 Q. Okay. Exhibit 17's again -- no, wait. Exhibit
20 17 is the other way around. You've got the better well
21 south and west -- south and east and the not-so-good
22 well north and west, right?

23 A. Yes, sir. The southeast well, in Exhibit 17,
24 is better than the northwest well.

25 Q. Yeah.

1 But always -- no, wait. Then go to Exhibit
2 18. Your Juliet well is pretty new. Looks like it's
3 coming on strong.

4 A. Yes, sir.

5 Q. And those wells are pretty close together?

6 A. They are.

7 Q. But they're off to the south and west also,
8 right?

9 A. The Sheba is on the east side of the --

10 Q. South and east, I mean. I'm sorry.

11 A. Yes. Right. They're directly -- the Juliet is
12 directly west of the Sheba well.

13 Q. So 17 and 19 would be consistent with -- not
14 necessarily indicate, but would be consistent with a
15 deterioration as you move east. But 16 -- no. 16 and
16 18 would be, but 17 would not -- 17 would indicate
17 either no difference or other way around, right?

18 A. Right. We believe that the settings,
19 especially example 18 being in the same section, Exhibit
20 17 a section away from one another, that the rock
21 quality in each of these examples is similar, that they
22 were drilled within the same zones, and the difference
23 in the performance would be explained by our completion
24 technique versus --

25 Q. Right.

1 And you have other data on which you
2 believe that there is not either an improving or
3 deteriorating trend in either direction?

4 A. Right.

5 Q. Thank you.

6 A. Yes, sir.

7 CROSS-EXAMINATION

8 BY EXAMINER JONES:

9 Q. He covered a lot my questions.

10 I don't know how much you want to talk
11 about the completions, but you can tell me if you don't.
12 I could ask a lot about whether you have improved your
13 perforations, your phasing, your density, your charges
14 and all that. Are you -- do you want to talk about it,
15 or -- do you think there has been an improvement?

16 A. I believe -- over the past year, we started
17 implementing a new completion design at Centennial,
18 moving from a hybrid-gel-style frac, viscous gels to a
19 slickwater design. The whole point of this design is
20 really to generate near wellbore complexity around the
21 wellbore. So instead of trying to place proppant far
22 away from the wellbore and drain as far out as we can,
23 we're trying to drain as much of the rock close to the
24 wellbore. And if it's successful, it allows us to
25 increase the number of wells that we're able to place in

1 a given section and improve the recovery of the wells --

2 Q. Okay.

3 A. -- and of the section as a whole. So that's
4 our goal. That's kind of what we're trying to get at
5 with our completion designs and what we've been gearing
6 towards over the past year. We've definitely seen
7 improvements in the well performance.

8 Q. Okay. So you've gone more toward the
9 high-volume, high -- high-rate fracs and away from the
10 gel loadings that might be -- is that gel clabbering up
11 your bores? Is that what it's doing?

12 A. I think that's an active debate in the
13 industry, whether it does or does not. One thing from
14 my understanding of frac technology that gel does do is
15 it's viscous. It has a higher carrying capacity of the
16 proppant and can carry it further away from the
17 wellbore. Slickwater does not have that carrying
18 capacity, and proppant tends to fall out of the fluid
19 stream quicker. And so that kind of allows for the
20 generation of fractures near wellbore and then kind of a
21 lot of proppant that, you know, is filling those cracks
22 near wellbore and keeping the completion and stimulated
23 rock volume close to the well.

24 Q. So have you changed the size of your pads, or
25 have you -- the people that are watching your frac, you

1 **know, governing the frac, are they getting more and more**
2 **experienced or --**

3 A. The completion consultants are definitely
4 getting more experience as we get more wells under our
5 belt.

6 The frac fleets -- at the beginning, when
7 we get -- you know, if we get a new frac fleet, it
8 takes, seems like, a few wells for them to get an
9 understanding of what we're doing and what we want done
10 out in the field. And once they get that under their
11 belt, then operations seem to -- execution improves.

12 **Q. Okay. But you've still got the same**
13 **limitations on pressure on the size of your casing and**
14 **everything. So can you tell us what final sand**
15 **concentration you're going for or size of your sand,**
16 **final size, the tail-end size?**

17 A. 100 mesh sand.

18 **Q. Nothing finer than that to start with?**

19 A. No, sir.

20 **Q. And you mentioned microseismic data. Does that**
21 **mean actual surface-measured microseismic, or are you**
22 **talking about FMI-type or some kind of a downhole-type**
23 **seismic?**

24 A. It's downhole arrays. We'll put a downhole
25 microseismic array in a vertical wellbore or the

1 vertical portion of a horizontal wellbore adjacent to,
2 you know, a frac that's going on. And we'll try to find
3 another horizontal wellbore to put a whip array in,
4 which a whip array goes into the actual horizontal
5 portion of the lateral. And so then you can triangulate
6 where these -- these noises are happening or where these
7 cracks are occurring, and they pinpoint, you know, the
8 events, is what they're called.

9 Q. So there is a lot here about no barriers or no
10 significant barriers between your Wolfcamp A target and
11 the lower part of your 3rd Bone Spring. But you've got
12 those carbonates in there, and you've got a lot of
13 variety on your gamma ray, it looks like. But you --
14 and you've got a big stress difference, right, because
15 you've got higher pressures down in the Wolfcamp? So
16 you still think it's affecting your Bone Spring -- the
17 Wolfcamp fracs are affecting the Bone Spring?

18 A. I believe that your fracs are going to grow up
19 into the Bone Spring. But from the Wolfcamp A interval,
20 I believe -- we're not placing proppant above the
21 wellbore with this slickwater design. Everything is
22 settling out. So even if cracks occur above you, we
23 don't believe they're going to be propagated, you know,
24 for eternity. And as fluid is removed from the system
25 again, we believe they can close back up over time.

1 Q. Okay. I probably better move on. Thanks very
2 much.

3 A. Yes, sir. Thank you.

4 EXAMINER JONES: Any other questions?

5 REDIRECT EXAMINATION

6 BY MR. FELDEWERT:

7 Q. Mr. Morby, turn to Exhibit 10. I want to
8 get --

9 A. Yes.

10 Q. Help me understand Exhibit 10. If I look at
11 the bottom, right-hand corner, you show the spacing that
12 the company, based on its experience and what other
13 operators use, as the appropriate spacing, right?

14 A. Yes.

15 Q. So you've got 1,320 in-zone spacing?

16 A. That is correct.

17 Q. And that's what other operators and that's what
18 the company have seen as the most efficient spacing to
19 start with, right?

20 A. That's a good starting point, is kind of what
21 the industry has been doing. Yes.

22 Q. So that's why if I go -- start at the top and I
23 go to the 2nd Bone Spring. You've got 1,320 at the top
24 of those wells?

25 A. Yes, sir, we do.

1 Q. Go down to the 3rd Bone Spring zone area, you
2 can see the basal sand that you're targeting, right?

3 A. That's correct.

4 Q. And then you've got 1,320 feet between those
5 two yellow dots?

6 A. That's correct.

7 Q. And then that sets your pattern for your
8 Wolfcamp, right?

9 A. That is correct.

10 Q. And you've got 1,320 between the Wolfcamp?

11 A. That's correct.

12 Q. Okay. And then you note that there are 660
13 stack-stagger spacing?

14 A. Right.

15 Q. That's the wine rack, right?

16 A. That is the wine rack.

17 Q. So, for example, if I took that bottom,
18 right-hand red dot and I follow the dashed line all the
19 way up into the 3rd Bone Spring Sand -- you've got your
20 arrow there -- that's the distance you're talking about,
21 the 660, right?

22 A. Right. That is the -- what I was calling the
23 lateral distance between those -- those two wellbores,
24 would be 660 feet between the 3rd Bone Spring Sand well
25 and that easternmost Wolfcamp well.

1 Q. Okay. And your primary point was that to
2 successfully and simultaneously complete these two
3 zones, you need this kind of spacing with this kind of
4 pattern?

5 A. Yes.

6 Q. Okay. Then if I look at Ascent's plan, you see
7 various distances between the wells, right?

8 A. That's correct.

9 Q. And you see various -- you see different
10 distances in terms of the wine rack?

11 A. That's correct.

12 Q. In fact, they've only got one 3rd Bone Spring
13 well for the wine rack?

14 A. Correct.

15 Q. And that's your concerns about waste, correct?

16 A. That is.

17 Q. And that they won't be able to effectively and
18 simultaneously complete those two zones?

19 A. That's correct.

20 MR. FELDEWERT: That's all I've got.

21 EXAMINER BROOKS: Let me ask one more
22 question that's kind of related to that.

23 RECROSS EXAMINATION

24 BY EXAMINER BROOKS:

25 Q. I've heard a lot of engineers testify recently

1 that want to drill more -- they want to drill them
2 closer than 1,320 feet apart. And that's a change from
3 several years ago when they were all talking 1,320. Is
4 this area -- is that not -- are those concerns not
5 applicable really in this area?

6 A. Well, actually, in some of those other example
7 areas that I was showing, we're testing five wells per
8 zone, which would be 1,000-foot spacing.

9 Q. Yeah.

10 A. And, you know, we're going to continue testing.
11 So we're hoping if that is successful, that we can bring
12 it into these other development areas that we're a part
13 of and potentially down-space. And for the reason I was
14 explaining with this near wellbore design, we can keep
15 things more contained close to the wellbore, harvest the
16 most rock and hopefully put more wells in the zone.

17 Q. Yeah.

18 I have heard testimony that would support
19 five or six across a section.

20 A. We would love to see that. Yes.

21 REDIRECT EXAMINATION

22 BY MR. FELDEWERT:

23 Q. Mr. Morby, the 1,320-foot spacing, to start
24 with, does that allow you to do what Mr. Brooks is
25 talking about?

1 A. The 1,320-foot spacing in this zone for the 3rd
2 Bone Spring Sand, we would test it at 1,320 first before
3 ever trying to down-space just to establish that that
4 was a good spacing and we weren't seeing interaction
5 between our 3rd Bone Spring Sand wells.

6 **Q. Now, does that initial distance allow you the**
7 **room to infill drill as necessary?**

8 A. With that -- with that pattern established in
9 the 3rd Sands, we would most likely not come back in in
10 between or directly over top of our Wolfcamp wells in
11 that area.

12 **Q. Okay. Okay. All right.**

13 EXAMINER JONES: Does anybody want a quick
14 break before you start, or you want to start right now?

15 MR. BRUCE: Let's start with my landman and
16 then take a break.

17 EXAMINER JONES: I'm sorry, Mr. Feldewert.

18 MR. FELDEWERT: That's it. I'm sorry.
19 That concludes our presentation.

20 LEE ZINK,
21 after having been previously sworn under oath, was
22 questioned and testified as follows:

23 DIRECT EXAMINATION

24 BY MR. BRUCE:

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

1 **residence for the Examiners?**

2 A. Lee Zink, Denver, Colorado.

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

4 A. I work for Ascent Energy, LLC, and I'm the land
5 manager.

6 **Q. Have you previously testified before the**
7 **Division?**

8 A. I have.

9 **Q. And were your credentials as an expert**
10 **petroleum landman accepted as a matter of record?**

11 A. They were.

12 **Q. And have you been working for Ascent since they**
13 **acquired their New Mexico interest?**

14 A. I have.

15 **Q. And how many years of experience do you have as**
16 **a landman?**

17 A. As a landman, I have 12 years' experience.

18 **Q. And are you familiar with the land matters**
19 **involved in these applications?**

20 A. I am.

21 MR. BRUCE: Mr. Examiner, I tender
22 Mr. Zink as an expert petroleum landman.

23 EXAMINER JONES: Any objection?

24 MR. FELDEWERT: No objection.

25 MS. BRADFUTE: No objection.

1 EXAMINER JONES: So qualified.

2 Q. (BY MR. BRUCE) Mr. Zink, let's start with your
3 Exhibit 1. What is that?

4 A. Exhibit 1 is an Midland Map covering the
5 following cases, Case Number 15992 through 15996. It's
6 in Township 21 South, Range 33 East, Section 18,
7 covering the east half. Also on this map, it shows
8 our -- Ascent Energy's leasehold position and
9 Centennial's leasehold position.

10 Q. Okay. And what is Exhibit 2?

11 A. Exhibit 2 is a regional lease map for Ascent
12 Energy just kind of documenting the multiple units we
13 have in this area and concentrated position that we own.

14 Q. And what is Exhibit 3?

15 A. Exhibit 3 is same map as Exhibit 2, except
16 we've added on our spacing units on there. And as you
17 can see, we've got -- one, two, three, four -- five
18 operated spacing units in this area -- in this immediate
19 area.

20 Q. And these are -- this is the oil potash area?

21 A. Correct.

22 Q. And so has Ascent been working with the BLM for
23 quite some time trying to look for -- looking forward to
24 developing this area and drilling this area?

25 A. That is correct.

1 **Q. And what is Exhibit 4?**

2 A. Exhibit 4 is the pooling unit map for Case
3 Numbers 15992 and 15995. The pooling unit covers the
4 west half of the east half in Section 18, Township 21
5 South, Range 33 East. These cover Ascent's Trucker Fed
6 Com 501H well and the Trucker Fed Com 701H well. It
7 also lists the working interest owners for both parties
8 in this unit.

9 **Q. The 501H is a 2nd Bone Spring; is that correct?**

10 A. That's correct.

11 **Q. And the 701 is a Wolfcamp?**

12 A. That's correct.

13 **Q. What is Exhibit 5?**

14 A. Exhibit 5 is the pooling unit map covering the
15 east half-east half of Section 18, and this is for Case
16 Numbers 15993, 15994 and 15996. This unit covers
17 Ascent's proposed Trucker Fed Com 502H, Trucker Fed Com
18 601H and Trucker Fed Com 703H and the working interests
19 for both parties.

20 **Q. And the 502H is a 2nd Bone Spring?**

21 A. That's correct.

22 **Q. The 601H is a 3rd Bone Spring?**

23 A. Correct.

24 **Q. And the 703H is the Wolfcamp well?**

25 A. Correct.

1 Q. Now, looking at this in a little more detail --
2 and so will Ascent's other witnesses. But are you
3 looking at just drilling one 3rd Bone Spring well in the
4 east half of Section 18?

5 A. No.

6 Q. What numbers are you looking at in each of
7 those zones?

8 A. I will leave that up --

9 Q. In a half section.

10 A. In a half section? I'll leave that up to our
11 geologist and our drilling engineer to explain further
12 on that, but there will be multiple wells in that unit
13 in that zone.

14 Q. And in Case 15994, the 601H, that is at an
15 unorthodox location; is that correct?

16 A. That is at a -- correct.

17 Q. It's close to the interior -- it's close to the
18 line that divides the east half-east half from the
19 west-east half?

20 A. That's correct.

21 Q. And then before we move any further, the west
22 half of Section 18, Ascent has plans in that area, too,
23 correct?

24 A. Ascent has plans to develop the west half of
25 Section 18.

1 Q. And as a matter of fact, a month ago or a
2 little more than a month ago, Ascent went to hearing
3 to -- Ascent owns the southwest quarter of Section 18,
4 correct?

5 A. Correct.

6 Q. And the northwest quarter of Section 18 is a
7 federal lease?

8 A. That's correct.

9 Q. And you went to hearing on, I believe, February
10 8th to force pool the west half-west half and the east
11 half-west half well unit --

12 A. That's correct.

13 Q. -- for future development?

14 A. Correct.

15 Q. Now, there's been a lot of talk about APDs.
16 When Ascent acquired its acreage in New Mexico, did it
17 have any -- did it acquire acreage with any approved
18 APDs?

19 A. No, it did not.

20 Q. And at least in this area of what we're looking
21 at is a lot of BLM acreage. Even if -- even if you
22 don't own it, there's federal acreage in the well unit?

23 A. Correct.

24 Q. So does it take a while to arrange situations
25 with the BLM to file -- even file an APD?

1 A. That's correct.

2 Q. And once you file, it takes quite a while to
3 get approval for that?

4 A. Correct.

5 Q. And looking at this area, do you intend to
6 actually develop all of these areas that are shown in
7 yellow on Exhibit 2?

8 A. We do.

9 Q. And, again, you are working toward -- towards
10 that aim, but, again, you can't even file -- for
11 instance, in Section 18, you cannot even file until
12 either a JOA is entered into with the north-half
13 interest owners or you get a forced pooling order?

14 A. That's correct.

15 Q. It's not a quick process?

16 A. It is not, no.

17 Q. And let's move on to your Exhibit 6. Could you
18 discuss -- could you identify that and discuss its
19 contents?

20 A. Exhibit 6 is a summary of our communications
21 with Centennial Resource Production covering Ascent's
22 proposed Trucker Fed Com wells. Our interest in this
23 area -- some of our communications date back all the way
24 to 2016 when we first acquired a position in this area.
25 We were in contact with GMT, who is Centennial's

1 predecessor. We worked with them to try to buy this
2 lease from them and have since diligently, in good
3 faith, worked with Centennial to engage conversations
4 once they have -- once they acquired this interest from
5 GMT.

6 Q. And you've had several meetings with
7 Centennial; have you not?

8 A. We have.

9 Q. Just from a land standpoint -- I'll leave that
10 for another witness.

11 And Exhibit 7, I believe another witness
12 will discuss this, but is this -- if you could identify
13 this and does this show the type of interactions you've
14 had with the BLM regarding getting well locations
15 approved and moving forward on surface locations?

16 A. That's correct. Yes. Exhibit 7 is a summary
17 of our progress for these wells, for the Trucker Fed Com
18 wells. It includes our conversations with the BLM, with
19 the grazing lessee owner, with Cimarex, as the mineral
20 lessee in Section 7. And we'll go more in-depth on that
21 with one of our -- with my co-worker.

22 Q. Okay. And it mentions the Trucker wells, but
23 it also mentions the Sombrero wells. Are those in the
24 west half of Section 18?

25 A. That's correct.

1 **Q. What does Exhibit 8 contain?**

2 A. Exhibit 8 is Ascent's -- yeah. It's Ascent's
3 well proposal for the Trucker Fed Com 501H well. This
4 was -- this was sent over to Centennial on September
5 26th. And this outlines our surface location,
6 bottom-hole location, our total vertical depth, total
7 measured depth, our AFE and the associated JOA terms
8 under this proposal -- well proposal.

9 **Q. Now, in January, did you have a discussion with**
10 **Centennial whereby -- did they inform you during that**
11 **discussion that they were moving forward with their well**
12 **proposals and would be filing pooling applications?**

13 A. They did.

14 **Q. And is that the reason you got your well**
15 **proposals together, the January 22 ones, and filed your**
16 **applications?**

17 A. That's correct.

18 **Q. You understood they were filing, too?**

19 A. Yes. Yes.

20 **Q. Now, you understand -- you've looked at**
21 **Division orders regarding the timing of sending out**
22 **proposal letters and the timing of filing pooling**
23 **applications; have you not?**

24 A. Repeat. You said Division orders?

25 **Q. Yeah. OCD orders.**

1 A. Oh, OCD orders. Yes, yes. I was thinking --
2 wrong context.

3 Q. Yeah. Sorry. I shouldn't say division orders
4 to a landman.

5 A. Yes. I'm aware of that.

6 Q. And normally they like to see, say, 30 days
7 elapse between filing -- or sending a proposal letter
8 and filing an application?

9 A. That's correct.

10 Q. Was it your understanding that they were going
11 to file soon, so -- that they were going to file their
12 applications soon?

13 A. Right. Yes. So our understanding is they were
14 going to file forced pooling on all four of their well
15 proposals that they had made to Ascent Energy covering
16 this east half.

17 Q. And you got their well proposals a few days
18 later or around the same time frame?

19 A. Same time frame.

20 Q. So both companies were kind of playing fast and
21 loose with the rules there?

22 A. Sure.

23 MR. FELDEWERT: Object to the form of the
24 question. There's no evidence we played fast and loose
25 with the rules.

1 THE WITNESS: Okay.

2 EXAMINER BROOKS: Well, I will sustain the
3 objection to characterization.

4 Q. (BY MR. BRUCE) Mr. Zink, do you have Exhibit A?

5 A. I do.

6 Q. What is that?

7 A. Exhibit A here is an email from Gavin Smith to
8 myself, and copying Ryan Parsley, who is Ascent's CEO,
9 and Aaron Tenholz at Centennial. And this addresses
10 the well proposals and the timing of the well proposals
11 and the applications for forced pooling. And it says
12 that both parties agree to not move forward regardless
13 as long as Ascent agrees not to assert that our wells
14 were not properly proposed to the timing of the hearing,
15 and Centennial agrees to do the same for the proposals
16 that they received from Ascent.

17 Q. Did you agree to that?

18 A. We did agree to that.

19 Q. Were you here during the testimony of
20 Mr. Smith?

21 A. I was.

22 Q. And were a number of questions asked stating
23 that your well proposals were incorrect and your filings
24 were incorrect?

25 A. That's correct. Yeah.

1 Q. Isn't that contrary to this email?

2 A. Yes. That is contrary to this email.

3 Q. So you weren't even going to bring up the
4 timing of their well proposals?

5 A. I was not going to bring up the timing of their
6 well proposals.

7 Q. Because of this email?

8 A. That's correct.

9 Q. So do you consider this email breached?

10 A. Correct.

11 Q. Based on your contacts with Centennial and the
12 contacts and discussions you've had, you believe that
13 you've made -- Ascent has made a good-faith effort to
14 obtain voluntary joinder of the interest owners in your
15 proposed wells?

16 A. That is correct.

17 Q. One little thing I don't think has been
18 mentioned before, but if you look at the Bone Spring and
19 separately at the Wolfcamp Formation in both the
20 northeast quarter and the southeast quarter of Section
21 18, are there any depth severances?

22 A. There are no depth severances that we're aware
23 of, not on this --

24 Q. In your first letter, the first page of Exhibit
25 8, you did send them a JOA; did you not?

1 A. We did follow up with a JOA several weeks
2 later.

3 **Q. Several weeks later?**

4 A. Yes. And that was after -- that was after a
5 meeting with Ascent's land department and Centennial's
6 land department when they requested an operating
7 agreement.

8 **Q. Have you ever received any comments until today**
9 **on your proposed JOA?**

10 A. We have not.

11 **Q. And, of course, the only party you seek to pool**
12 **in this case is Centennial?**

13 A. That's correct.

14 **Q. Will another witness discuss the AFEs for the**
15 **well?**

16 A. They will.

17 **Q. And do you request that Ascent be appointed**
18 **operator of the wells?**

19 A. I do.

20 **Q. Do you have a recommendation for the amount**
21 **that should be paid to Ascent for supervision and**
22 **administrative expenses?**

23 A. 7,000 for drilling and 700 for producing
24 overhead rates.

25 **Q. And in your opinion, are these amounts fair and**

1 reasonable and in line with those normally charged by
2 Ascent and other operators?

3 A. I do [sic].

4 Q. Do you request that these rates be periodically
5 adjusted by the COPAS accounting procedure?

6 A. Yes.

7 Q. Does Ascent request the maximum cost, plus 200
8 percent risk charge in the event Centennial goes
9 nonconsent in a well?

10 A. Yes.

11 Q. Now, insofar as land -- just from a land
12 standpoint, did Ascent like the -- splitting up the east
13 half into the east half-east half and west half?

14 A. We did not. We do not think that --
15 ultimately, to develop the resource that that was a
16 counterintuitive trade proposal.

17 Q. It would -- it would conflict with, say,
18 putting three wells, say, in the 2nd Bone Spring across
19 the east half of Section 18?

20 A. Correct.

21 Q. Now, another trade they proposed was the
22 southwest quarter for the northeast quarter?

23 A. Correct.

24 Q. But you were already well along in getting a
25 pooling order and trying to prepare to file APDs; were

1 **you not?**

2 A. Yes. On the west half, we had sent well
3 proposals out to the other parties in the west -- in the
4 west half of that section, and we were proceeding
5 forward with pooling. And I believe we're just waiting
6 on a signed order for that tract, for the west half
7 there.

8 **Q. And was Centennial notified of the pooling**
9 **applications?**

10 A. They were.

11 **Q. And is that reflected in Exhibit 9?**

12 A. I would -- I don't have Exhibit 9 in front of
13 me.

14 EXAMINER BROOKS: I was going to say,
15 something happened to Exhibits 9, 10 --

16 THE WITNESS: I just don't have it in front
17 of me.

18 EXAMINER JONES: Here (indicating).

19 THE WITNESS: To answer the question, yes.

20 MR. FELDEWERT: I was going to say, we got
21 notice.

22 **Q. (BY MR. BRUCE) And was notice given to all of**
23 **the offset operators or working interest owners in the**
24 **40-acre tracts surrounding all of the east half of**
25 **Section 18?**

1 A. They were. Notice was given.

2 **Q. And that is reflected by Exhibit 10; is that**
3 **correct?**

4 A. Yes.

5 MR. BRUCE: And, Mr. Examiners, I merely
6 point out that it's so rare that I get everybody to
7 return a green card, I'm kind of celebrating.

8 EXAMINER JONES: A first. Celebrated on
9 green day.

10 **Q. (BY MR. BRUCE) Mr. Zink, in your opinion, is**
11 **the granting of Ascent's applications for nonstandard**
12 **units and compulsory pooling in the interest of**
13 **conservation and the prevention of waste?**

14 A. Yes.

15 **Q. And in your opinion, should Centennial's**
16 **applications be denied?**

17 A. That's correct.

18 **Q. Were Ascent Energy Exhibits 1 through 8 and**
19 **Exhibit A prepared by you or under your supervision?**

20 A. That is correct.

21 MR. BRUCE: And, Mr. Examiner, Exhibits 9
22 and 10 are my Affidavits of Notice. I would move the
23 admission of Ascent Exhibit A and Ascent Exhibits 1
24 through 10.

25 MR. FELDEWERT: No objection.

1 MS. BRADFUTE: No objection.

2 EXAMINER JONES: Exhibit 10, that was the
3 Affidavit of Notice --

4 MR. BRUCE: To the offsets.

5 EXAMINER JONES: -- to the offsets? Okay.

6 Okay. Exhibits 1 through 9 and Number 10
7 and Letter A are admitted.

8 (Ascent Energy, LLC Exhibit Numbers 1
9 through 10 and Letter A are offered and
10 admitted into evidence.)

11 MR. BRUCE: Pass the witness.

12 EXAMINER JONES: And, Mr. Feldewert?

13 MR. FELDEWERT: Mr. Examiner, if I may
14 approach the witness.

15 EXAMINER JONES: Fine with me.

16 EXAMINER BROOKS: We're kind of informal
17 around here, but yes, certainly you may.

18 MR. FELDEWERT: I'm going to hand to
19 Mr. Zink what we've marked as --

20 EXAMINER BROOKS: I have been asked that
21 question many times, and I don't think I've ever said
22 anything but yes.

23 EXAMINER JONES: It might have been
24 dangerous --

25 (Laughter.)

1 MR. FELDEWERT: I'm handing out what's been
2 marked as Centennial Exhibit Number 20, which is a
3 record search from the Oil Conservation Division for
4 Ascent Energy.

5 CROSS-EXAMINATION

6 BY MR. FELDEWERT:

7 Q. Now, if I'm reading this -- if I understand
8 this correctly, having looked at the files, I think you
9 testified either in this hearing or a previous hearing
10 that the company acquired its assets -- first assets in
11 the fall of 2016; is that right?

12 A. That's correct.

13 Q. And was that by way of a change-of-operator
14 form between the company and Diamondback for the
15 Mongoose well?

16 A. Not in 2016, no.

17 Q. Okay. But you did acquire assets in the fall
18 of 2016?

19 A. In fall of 2016, yeah, we did acquire some
20 assets.

21 Q. Is that when you first started acquiring your
22 assets?

23 A. Yes, sir.

24 Q. And then I'm looking here. It looks like these
25 Division records would reflect -- I apologize. It looks

1 like the Mongoose Fee well 1H well was a well that you
2 acquired a change-of-operator form from Diamondback?

3 A. That's correct.

4 Q. And then you acquired the Gavilan well in
5 change-of-operator form from Strata?

6 A. That's correct.

7 Q. And then there are a number of wells above
8 that, beginning with the Emperor, and then all the way
9 down to the Eddy State. My review of the records
10 indicate that you got those with a change-of-operator
11 form from Link [sic; phonetic], right?

12 A. That's correct.

13 Q. And then the remaining wells below there,
14 starting with Toque State, those were wells in which you
15 actually got approved applications to drill?

16 A. That's correct.

17 Q. Those are approved applications?

18 A. Those are approved.

19 Q. And that was in January; was it not?

20 A. In January of -- they've been -- yes, recently.

21 Q. January of what year?

22 A. '17, probably.

23 Q. Okay. So you've had those for quite some time?

24 A. Maybe fourth quarter of '17.

25 Q. You've had ten approved APDs from the

1 Division's district office since that time?

2 A. That's about -- sure.

3 Q. But the company has not drilled any horizontal
4 wells in New Mexico?

5 A. We have not.

6 Q. And, in fact, I believe you testified
7 previously that you have no drilling rigs under
8 contract?

9 A. We do not have any drilling rigs under
10 contract.

11 Q. And didn't you testify in this area that you
12 had no agreements for takeaway for water or gas?

13 A. We have no signed agreements.

14 Q. Okay. Now, you mentioned that you've been
15 working to get your off-lease locations approved.

16 A. Correct.

17 Q. Are those -- are those state or fee lands in
18 that section above?

19 A. In Section 7?

20 Q. Yes.

21 A. They're state lands.

22 Q. Okay. All right. And is that -- do those
23 require approval from the potash companies?

24 A. They do not.

25 Q. Even though they're within the LMR?

1 A. They're outside the LMR.

2 Q. Are they within the potash area?

3 A. They're within the potash area.

4 Q. All right. But you don't think you need
5 approval from the potash --

6 A. We do not need approval from the potash
7 companies for that area.

8 Q. You were here for the testimony of Centennial
9 after you sent out the September 2017 well-proposal
10 letter where you had various meetings with Centennial,
11 correct?

12 A. We've had various meeting. Correct.

13 Q. And Centennial proposed a number of trades?

14 A. They proposed two trades. Correct.

15 Q. You rejected each of those trades?

16 A. That's correct.

17 Q. Now, the most intriguing trade to me was -- if
18 I look, for example, at your Exhibit Number 3, your
19 proposal -- your proposal was to trade out Centennial's
20 acreage in the northeast quarter for your acreage in the
21 southwest quarter, correct?

22 A. That was in trade. Yes.

23 Q. Okay. And that would then give you the entire
24 half section to develop?

25 A. Correct.

1 Q. And Ascent then -- or Centennial then would be
2 able to develop the east half, correct?

3 A. You have --

4 Q. I'm sorry. The west half.

5 A. That would be the theory behind that proposal,
6 I'm guessing, on Centennial's side.

7 Q. And if that had been done, there wouldn't be
8 any pooling necessarily, right, by you-all?

9 A. Yeah, possibly. But we were already --

10 Q. Because you would own 100 percent.

11 A. We were already down the road on well proposals
12 on the west half, as we have already come to hearing for
13 the west half.

14 Q. But these were all -- these proposals were made
15 long before you filed any pooling application, right?

16 A. That is -- yes. Correct.

17 Q. These proposals, right?

18 A. Correct.

19 Q. So you could have avoided what now turned out
20 to be two -- the cost of two pooling proceedings, and
21 you could have proceeded with 100 percent ownership over
22 there?

23 A. We also had proposed wells to the owners of the
24 west half as well --

25 Q. Uh-huh.

1 A. -- prior to that trade.

2 **Q. So why did you reject that trade offer?**

3 A. Because to efficiently develop our units,
4 especially up in Section 7, we can use existing surface
5 to drill both wells and eliminate surface disturbance
6 and centralize facilities and gathering lines,
7 everything, into a specific area.

8 **Q. And at the time that you proposed -- when you**
9 **rejected that trade, you didn't make any suggestion like**
10 **that, right? You just rejected it?**

11 A. Yup.

12 **Q. No counterproposal?**

13 A. No counterproposal.

14 **Q. In fact, between the time that you sent your**
15 **well letter out in September of 2017 to the time of**
16 **filing your pooling application, you made no proposal or**
17 **to try to reach a resolution, did you?**

18 A. We did not. No.

19 **Q. You're the person that signed the September**
20 **26th, 2017 well-proposal letter; is that right?**

21 A. I did. Correct.

22 **Q. Did you examine the Bone Spring Pool**
23 **requirements before sending it?**

24 A. We did not before sending that, and that's why
25 an amendment was sent on January 22nd.

1 Q. I'm sorry?

2 A. That's why the amendment was sent on January
3 22nd.

4 Q. But despite this testimony that you said you
5 had all the plans to develop and all the plans that have
6 been put in place, at least in September 2017, you
7 weren't even aware of the spacing requirements in this
8 area; isn't that true?

9 A. That's a fair statement.

10 Q. Okay. How long was it before you became aware
11 of the actual spacing in this area?

12 A. Probably shortly thereafter. We sent out new
13 well proposals on the west half covering those, the
14 new -- the wildcat field rules.

15 Q. If you became aware shortly thereafter, you
16 mean shortly after September 2017? Is that what you
17 mean?

18 A. Yeah. I'm sorry. Repeat that, the timing on
19 that question.

20 Q. You said you became aware of the proper spacing
21 in this area shortly thereafter.

22 A. September 26th?

23 Q. Yeah.

24 A. Yeah. I'd say that's fair. Sometime in that
25 time.

1 Q. Why did you wait four months to properly
2 propose a spacing unit?

3 A. We were just working on surface -- surface
4 issues out in that area, and we wanted to make sure we
5 knew where our surface locations were before reproposing
6 those wells or amending the well proposals.

7 Q. So you left in place for four months a proposal
8 with the wrong spacing unit?

9 A. I guess that's a fair statement.

10 Q. Now, the letter says, "Bone Spring Formation,"
11 correct?

12 A. Yes.

13 Q. And it says a total vertical depth of 11,120
14 feet.

15 A. It does.

16 Q. Did you check with your geologist before
17 listing the total vertical depth of 11,120 feet?

18 A. That's correct.

19 Q. And he told you that that was in the 2nd Bone
20 Spring?

21 A. That was.

22 Q. Are you aware that it actually places your well
23 in the 3rd Bone Spring Carbonate?

24 A. We had -- once we were -- once we realized that
25 this issue -- and I believe it was a surface issue, we

1 had notified Centennial, and we reached out and
2 facilitated a technical meeting between both companies.

3 Q. You told them you recognized that was a
4 mistake?

5 A. We did.

6 Q. Is there a reason why you didn't correct your
7 mistake in a formal letter that would identify the
8 actual total vertical depth that you were proposing for
9 your Bone Spring well?

10 A. That was one of the goals of the meeting --
11 technical meeting we had in person with our staff and
12 their staff.

13 Q. My question was: Why didn't you amend your
14 well-proposal letter to identify not only the correct
15 spacing unit but the total vertical depth that this you
16 were actually contemplating for the 2nd Bone Spring?

17 A. We did not amend -- we did not amend the
18 vertical depth through a written letter. No.

19 Q. Why didn't you correct the January 28th letter?

20 A. Because the January 28th letter was to correct
21 the contract area.

22 Q. I'm sorry. The January 22nd letter.

23 A. Yeah. It was to correct the contract area.

24 Q. Why didn't you identify the total vertical
25 depth that you intended for your 501H well?

1 A. We did not feel it was necessary at that time
2 to correct it in writing since we had already talked
3 about it between both parties.

4 Q. Then when you filed your pooling application
5 before this Division for the 501H well, did you
6 identify, in that pooling application, the total
7 vertical depth that you were proposing?

8 A. In the pooling application?

9 Q. Yes.

10 A. In the pooling application, no, it was not
11 identified.

12 Q. In fact, in your pooling application, you
13 didn't even identify -- you said Bone Spring Formation.

14 A. It is the Bone Spring Formation.

15 Q. So at the time that you filed your
16 well-proposal letter, you had not identified in any
17 formal proposal, either in your filing with the Division
18 or any well-proposal letter, the vertical depth that you
19 were contemplating for your 501H well?

20 A. We filed for pooling under the field rules in
21 the Bone Spring Formation field rules.

22 Q. Bone Spring Formation?

23 A. Bone Spring Formation.

24 Q. Which encompasses, what, the 1st Bone Spring?

25 A. That's correct.

1 Q. 2nd Bone Spring?

2 A. Yup.

3 Q. 3rd Bone Spring?

4 A. Yup.

5 Q. My question is: At no point, either in your
6 application or in a letter, did you identify the total
7 vertical depth that you were targeting for 501H well?

8 A. Correct.

9 Q. And prior to filing your pooling application,
10 had you at any point in time identified to Centennial
11 the location or the target zone for your 502H well?

12 A. At any time?

13 Q. Prior to sending your well-proposal letter the
14 day before your pooling application.

15 A. No.

16 Q. And had you -- prior to filing your pooling
17 application, the day before your pooling application, at
18 any point had you identified or proposed to Centennial a
19 formation or a total vertical depth or cost or anything
20 related to the 601H well?

21 A. Prior to sending a well proposal?

22 Q. Prior to sending your well-proposal letter the
23 day before your pooling application.

24 A. No, we did not. The well proposal was our
25 notice. The well proposal was our notice.

1 Q. Same holds true for the 701H well?

2 A. That's correct.

3 Q. And the 702H well?

4 A. That's correct.

5 Q. Okay. They have not been the subject of any
6 prior discussions?

7 A. No, they have not.

8 MR. FELDEWERT: That's all the questions I
9 have.

10 EXAMINER JONES: Ms. Bradfute?

11 CROSS-EXAMINATION

12 BY MS. BRADFUTE:

13 Q. I have just a few questions for you.

14 A. Sure. Uh-huh.

15 Q. I wanted to focus on Exhibit Number 7, which is
16 the timeline on surface issues.

17 A. Yes.

18 Q. And I wanted to focus on the very last bullet
19 point on this exhibit --

20 A. Yup.

21 Q. -- which is dated March 27, 2018.

22 A. Correct.

23 Q. This bullet point summarizes a conversation
24 that you had with Cimarex's landman and asset manager to
25 discuss the surface use of Cimarex's leasehold interest

1 in Section 7, correct?

2 A. Correct.

3 Q. And that call that you're summarizing in this
4 bullet point would have been with Cody Elliott and
5 Michael Swain at Cimarex?

6 A. That's correct.

7 Q. And when you had that telephone call with
8 Mr. Elliott and Mr. Swain, were the companies able to
9 reach some sort of agreement allowing for a subsurface
10 easement underlying the east half of Section 7?

11 A. We did.

12 Q. Okay. And are the parties working on reducing
13 that agreement to writing?

14 A. That's correct.

15 Q. And could you please explain the unique
16 topography concerns in Section 7 which would require you
17 to use Cimarex's --

18 A. Yeah. I believe we have another exhibit that
19 our drilling engineer will go into, but in this -- in
20 this localized area, we're on top of a mesa. Therefore,
21 the top of the mesa is basically -- and the start of the
22 hill going down is right on the section line between 7
23 and 18. And as we look at it -- as we did our kind of
24 field reconnaissance and we met with the grazing lessee
25 out there earlier this year -- and he is the fee surface

1 owner in Section 18 as well -- he pointed out and
2 recommended that we use -- stay on top of the mesa for
3 our surface location. So that was -- our initial field
4 reconnaissance kind of dictated where that position of
5 that well site would be located.

6 Q. And these are concerns that you conveyed to
7 Cimarex in a phone call?

8 A. These were, yeah. Yeah. And we'll have a
9 better illustration in one of our other exhibits.

10 Q. Thank you.

11 A. Sure.

12 EXAMINER LOWE: I have no questions for
13 you. Thank you.

14 EXAMINER BROOKS: I don't really know that
15 I have any. It must not have been very important.

16 CROSS-EXAMINATION

17 BY EXAMINER JONES:

18 Q. I guess I would ask, Mr. Zink, was there a
19 consideration of making this whole west -- or east half
20 into -- since you're planning on drilling the well real
21 close to the line --

22 A. Uh-huh.

23 Q. -- were you thinking of making -- of applying
24 for a standard project area -- or a nonstandard
25 location -- or spacing unit through hearing, kind of

1 combining that?

2 A. For the development unit -- development of that
3 section, yes, we would. In the future, we'll
4 probably --

5 Q. But I mean on the centerline of the east half,
6 like 1,320 feet.

7 A. Okay.

8 Q. You're talking about drilling three wells in
9 the east half-east half, is that correct?

10 A. That's correct. Yes.

11 Q. And two wells in the west half-east half?

12 A. That's correct.

13 Q. And so -- okay. Well, the -- I guess I
14 would -- I wanted to ask that and then something
15 trivial. I guess calling the 500 level -- 500 series,
16 600 series, 700 series wells, both parties seem to be
17 doing that today. Is that something that everybody has
18 kind of agreed on?

19 A. Okay. It's the new strategy done by EOG that
20 we just implemented, as well as -- as well as
21 Centennial.

22 Q. EOG legacy?

23 A. I believe that's the originator on that.

24 Q. The 700 series is the Wolfcamp, and the 600 is
25 the 3rd Bone Spring?

1 A. I believe that's the case. Yeah.

2 Q. I feel we're letting you off too easy here if I
3 don't ask you more questions.

4 Is that Hat Mesa you're talking about?

5 A. That is Hat Mesa.

6 Q. In Lea County, there's a mesa?

7 (Laughter.)

8 MR. BRUCE: It's called a small rise.

9 EXAMINER JONES: Okay. Small rise.

10 THE WITNESS: And that's led to our naming
11 of the Trucker and the Sombrero, different types of
12 hats.

13 Q. (BY EXAMINER JONES) Okay. Okay.

14 And 7,000, 700?

15 A. Yup.

16 Q. And I'm still a bit confused about why you
17 didn't -- why the trade didn't happen, but I guess
18 nothing's ever totally off the table --

19 A. You mean --

20 Q. -- in the landman's world.

21 A. To follow up on the trade proposal, you know,
22 we're working with the owners in the northwest quarter
23 to acquire their property as well. So we would have --
24 we are the majority in the west half, and so we have the
25 rights to propose operating those wells, and we're

1 working on acquiring the interest there. So we're
2 already well down the road on the west half and,
3 therefore, the trade didn't make sense to us as a
4 company.

5 **Q. Okay. Is there a difference in the royalty**
6 **rate in the federal lease versus state lease?**

7 A. Yeah. There would be a difference. Obviously,
8 the Fed leases, I think, are 12-1/2, and the state
9 leases are 3/16th.

10 **Q. So it's a relatively new state lease then?**

11 A. It's a relatively new state lease. Yeah.
12 There are no overrides on our state lease.

13 **Q. Anything expiring soon on these leases?**

14 A. Our expiration is 2021, and I believe
15 Centennial's expiration is 2022.

16 **Q. Okay. And your company focus, are you the**
17 **owner of this company, or do you work on the --**

18 A. Yes.

19 **Q. -- planning of the whole --**

20 A. We have -- all employees are owners of this
21 company.

22 **Q. Oh, that's nice.**

23 **So can you tell us your companywide focus**
24 **and why are you in this particular area?**

25 A. Yes. So the company started in about July of

1 2016. A group of us -- about six of us came together.
2 We all worked together at a former company. That former
3 company -- we wanted -- we had plans to -- we were
4 looking at assets in the Permian Basin. At that time
5 that former company had decided to turn all of their
6 assets non-ops and, therefore, close down the Denver
7 office, which is where most of us were, all the
8 operation staff. So in that -- in that closure, there
9 was another opportunity that came up. So we all started
10 together and raised our own money to start our own
11 company. We knew we wanted to be in New Mexico and/or
12 the Delaware Basin specifically, and we quickly focused
13 on New Mexico, and all of our assets are in New Mexico.

14 **Q. Can you talk about your timeline of when you**
15 **want to drill, when you want to complete, when you**
16 **want --**

17 A. Yeah, of course. So as a company, we're
18 organically grown, so each lease, we're picking up lease
19 by lease at a time. So we weren't going to pick up a
20 rig until we had enough acres, enough leases in our
21 control. So that's where we are. So we spent a lot of
22 time in the last year and a half acquiring acreage,
23 building our units, doing a lot of the legwork and
24 dealing with -- and we started focusing on this potash
25 area. And, again, it just takes a lot of time, you

1 know, working with the BLM, the State office, you know,
2 the surface -- surface lessees out there as well and
3 getting everything in place. But we wanted to make sure
4 we had enough permits in hand to pick up a rig and
5 develop throughout the rest of the year and into the
6 following year.

7 **Q. Do you know about your process of talking to**
8 **the rig companies or what kind of delay that would be?**

9 A. Yeah. Jody will go more in-depth. Jody Robins
10 is our VP of drilling. But we've had discussions with
11 the rig company and looking at timing.

12 **Q. And as far as disposing your water also? We**
13 **didn't ask Centennial about that, but --**

14 A. Yeah. No. We've got a comprehensive plan.
15 Jody will describe it. Jody Robins will describe our
16 gathering facility for all of our units. I believe it's
17 on Exhibit 3, showing our development units, full
18 gathering system plans in place. So we're looking at
19 the development of oil, gas, water and recycle water
20 lines out there.

21 **Q. Okay. So a gas gatherer out there, do you know**
22 **who those are?**

23 A. We're looking at a couple options, but most
24 likely it's going to be a company called 3 Bear.

25 **Q. Were they called something else before that**

1 or --

2 A. I do not know.

3 Q. I'm not familiar with them.

4 A. They've got permitted rights-of-way out there
5 already.

6 Q. Okay.

7 EXAMINER JONES: Any other questions?

8 MR. BRUCE: Yeah. I've got a couple of
9 follow-up ones.

10 REDIRECT EXAMINATION

11 BY MR. BRUCE:

12 Q. Mr. Zink, Mr. Feldewert was questioning you
13 about your well proposals and asking you about some
14 small errors or omissions in your well proposals.

15 I've handed you Centennial Exhibit 4.
16 You've seen those proposal letters before, haven't you?

17 A. I have.

18 Q. And have you previously reviewed a copy of OCD
19 Order R-13165 regarding what should be in a well
20 proposal regarding a horizontal well?

21 A. That's correct.

22 Q. Do Centennial proposals comply with that order?

23 A. They do not.

24 Q. They do mention the 3rd Bone Spring and
25 Wolfcamp; do they not?

1 A. They do.

2 **Q. Do they give a proposed depth?**

3 A. They do not have a targeted depth.

4 **Q. Do they specify the well footages?**

5 A. They do not.

6 **Q. Surface locations?**

7 A. They do not.

8 **Q. The intended point of penetration and**
9 **bottom-hole locations?**

10 A. They do not.

11 **Q. Even though your first proposal had an**
12 **incorrect depth on it, did your proposal letters comply**
13 **with Order R-13165?**

14 A. That's correct.

15 **Q. Thank you. That's all I have.**

16 EXAMINER JONES: Does anybody know the case
17 numbers for the west half pending before some lazy
18 examiner (laughter)?

19 MR. BRUCE: I won't say any names
20 (laughter).

21 EXAMINER JONES: Okay.

22 MR. BRUCE: Mr. Goetze.

23 EXAMINER JONES: Okay.

24 (Laughter.)

25 MR. BRUCE: I don't have --

1 THE WITNESS: I have them here. I have
2 them here. It's Case Numbers 15949, 15950, 51 and 52.

3 EXAMINER JONES: 51 and 52?

4 THE WITNESS: Yeah.

5 EXAMINER JONES: Four of them. But they're
6 all related to the west half?

7 THE WITNESS: They're all the west half of
8 the section.

9 EXAMINER BROOKS: Maybe need to ask.
10 Maybe. I'm not sure.

11 EXAMINER JONES: He would have to do an
12 archeological study (laughter).

13 Thanks very much.

14 THE WITNESS: Thank you.

15 EXAMINER JONES: Let's take a break, but we
16 promise not to be too long.

17 (Recess, 3:24 p.m. to 3:42 p.m.)

18 MR. FELDEWERT: Mr. Examiner, back on the
19 record?

20 EXAMINER JONES: Yes.

21 MR. FELDEWERT: Before we go to our next
22 witness -- I don't think I need to re-call Mr. Zink, but
23 they caught me by surprise. But there was a statement
24 that the well-proposal letter from Centennial did not
25 identify a total vertical depth or other locations of

1 the well. And I would invite you, at your leisure, if
2 you take a look at our Exhibit Number 4 and if you look
3 at the first page of each of those segments and the last
4 page, you will find that each case did identify not just
5 Bone Spring, but the 3rd Bone Spring or 2nd Bone Spring.
6 And between the first and the last letters, they
7 identify total vertical depth and also provide the
8 locations.

9 So I don't know what the source is for
10 Mr. Zink's statement that they don't comply with those
11 orders, but if you take a look at those letters,
12 particularly the first and last page of each segment of
13 Exhibit Number 4, you'll see that they do before we
14 filed our pooling application.

15 MR. BRUCE: And my only comment on that is
16 when you look at the last letter, it gives bottom-hole
17 locations they are no longer seeking approval of.

18 MR. FELDEWERT: Total vertical depth?

19 MR. BRUCE: 330 feet from the north line.
20 That's incorrect.

21 MR. FELDEWERT: That's the surface-hole
22 location.

23 MR. BRUCE: No, bottom-hole location.

24 MR. FELDEWERT: The bottom-hole location.
25 330 feet from the north line is correct. Oh.

1 MR. BRUCE: You're seeking 100 feet from
2 the --

3 MR. FELDEWERT: With the approvals for
4 the -- if we get the approval for the nonstandard
5 locations, which had not been filed when these letters
6 were sent.

7 MR. BRUCE: Okay.

8 MR. FELDEWERT: Yes.

9 EXAMINER JONES: Okay. Mr. Bruce?

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

13 DIRECT EXAMINATION

14 BY MR. BRUCE:

15 **Q. Would you state your name and city of**
16 **residence, please?**

17 A. Ben Metz, Golden, Colorado.

18 **Q. And who do you work for?**

19 A. I work for Ascent Energy.

20 **Q. And what is your job there?**

21 A. I'm the exploration manager.

22 **Q. And by profession, are you a petroleum**
23 **geologist?**

24 A. Yes.

25 **Q. And how long have you been a geologist -- a**

1 petroleum geologist?

2 A. Since 2006.

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

5 A. Yes.

6 Q. And were your credentials as an expert
7 petroleum geologist accepted as a matter of record?

8 A. Yes.

9 Q. And are you familiar with the geologic matters
10 related to the development of Ascent's proposed
11 development in this area?

12 A. Yes.

13 MR. BRUCE: Mr. Examiner, I tender Mr. Metz
14 as an expert petroleum geologist.

15 MR. FELDEWERT: No objection.

16 MS. BRADFUTE: No objection.

17 EXAMINER JONES: No objection?

18 He is so qualified.

19 Q. (BY MR. BRUCE) Mr. Metz, could you identify
20 your Exhibit 11 and describe the zones that Ascent is
21 looking at in this area?

22 A. Yes. Exhibit 11 is an idealized fully
23 developed half section, which this is showing the target
24 starting at the bottom of two Lower Wolfcamp As, two
25 Wolfcamp X-Ys. Those are on 1,320 spacing,

1 approximately. The 3rd Bone Spring will have two, also,
 2 on that same spacing. The 2nd Bone Spring, we believe
 3 that we'll be testing three possible locations there.
 4 Nothing is set in stone on that yet, but we feel three
 5 may be possible there: Two 1st Bone Spring wells, four
 6 Leonard wells and three Avalon wells.

7 You also see the 330-setback lines on each
 8 of those in the dashed red lines.

9 Q. Okay. Now, the way you're looking at it, there
 10 are two prospective Wolfcamp zones?

11 A. Yes.

12 Q. The X-Y and the A?

13 A. Yes.

14 Q. And what you're also looking at, at least in
 15 certain zones, is not four wells across the section but
 16 six wells across the section?

17 A. Across a full.

18 Q. Across the full section?

19 A. Yes.

20 Q. Or three across a half section?

21 A. Yes.

22 Q. And in order to do that efficiently and without
 23 impairing correlative rights, wouldn't that become more
 24 difficult if Centennial developed the east half-east
 25 half and Ascent developed the west half-east half?

1 A. Yes. That would only give you a 660 fairway.
2 And to drill wells -- and to drill more than a single
3 well in a zone, you would have to have spacing tighter
4 than 660 so you don't drift over the setback lines.

5 Q. And then one other thing up front. There's
6 been discussion of the initial well proposal for the
7 501H well where, based on the total vertical depth in
8 that proposal letter, that would have put it in the 3rd
9 Bone Spring Carbonate. You do not intend to drill in
10 the 3rd Bone Spring Carbonate?

11 A. No.

12 Q. And what was the reason for that mistake?

13 A. So yes, that has been a common -- common topic.
14 Looking at the offset wells, there is the East Hat Mesa
15 well north of there and an east well in the south of 18.
16 Both of all of those ground elevations were pretty darn
17 close to being -- being out of flat. We all assumed
18 northern -- or southeastern New Mexico is flat, but
19 there is a reason why this is called a Hat Mesa. And
20 that ground elevation was about 100 feet up above that,
21 and that was the difference for the 100 feet dropping it
22 down into the top of the 3rd Bone sea carbonate -- or
23 the -- yeah, the top of the 3rd Bone Carbonate there.

24 Q. So if you eliminate that 100 feet, it would
25 push it up into the 2nd Bone Spring?

1 A. Yeah. Yeah.

2 **Q. And you informed Centennial of that?**

3 A. Yes. We had had a technical meeting. We had
4 provided a slide showing the topographic relief, and
5 they had seemed satisfied at the time, in my opinion.

6 **Q. Let's go to your Exhibit 12. A bunch of pages**
7 **have been stapled together there because Exhibit 12**
8 **concerns the 501 -- proposed 501 and 502H wells?**

9 A. Yes.

10 **Q. Could you run through that, without too much**
11 **interruption from me, and discuss the 2nd Bone Spring**
12 **geology in this area?**

13 A. Sure. This is the structure map on the top of
14 the 2nd Bone Sand. You can see that there is a 50-foot
15 contour interval, and we have about 50 feet of a dip
16 across -- across the one-mile section going from the
17 north to the south. Wells shown on here are 2nd Bone
18 Spring wells. Those are the ones with the bubbles, and
19 the six-month cums, that would be oil, gas and water.
20 Seeing that some of these are all different vintages,
21 giving total cums is kind of a skewed view there, so we
22 are showing a six-month cums.

23 The other wells that are either vertical
24 wells or are horizontal wells that are lacking bubbles
25 have logs associated with them. And you can see there

1 are eight 2nd Bone Sand permits just south in Sections
2 9, 19 and 30 and part of 31. Those are
3 one-and-a-half-mile-long wells permitted by Advance.

4 There is a line of cross section starting
5 in the middle of Section 7, in the East Hat Mesa well,
6 going into the Eaves well, which is in the south of 18,
7 and then tying in the horizontal Dagger State 504 well
8 and ending down at the surface -- surface spot of the
9 504 well.

10 Q. In looking at it, there is a well immediately
11 south of the east half of Section 7, correct?

12 A. I'm sorry?

13 Q. There is an existing well immediately south of
14 the east half of Section 18, I mean?

15 A. Yes. That is the Dagger State 504 completed by
16 Amtex Energy, which is -- which is now operated by
17 Advance.

18 Q. And those wells, the existing one and the
19 proposed ones, are 2nd Bone Spring wells, and that
20 piques your interest in the 2nd Bone Spring?

21 A. Yes. Yes. That 2nd Bone Spring well had a
22 six-month cum of 183,000 barrels.

23 Q. Okay. Move through the rest of your exhibits.

24 A. Okay. Exhibit Number 12, I believe -- or
25 sorry --

1 **Q. The second page.**

2 A. -- second page, is a 2nd Bone Spring isopach.
3 And this is also on a 50-foot contour interval. This is
4 showing between 5 -- between 550 feet of total gross
5 isopach across Section 18, and, again, the same wells
6 are being shown.

7 **Q. And the next page?**

8 A. Map three is a net sand map. This is -- this
9 is greater than -- greater than 8 percent porosity.
10 This is showing in between -- it is on a 25-foot contour
11 interval in between 4 -- we have approximately 400 feet
12 of total reservoir greater than the 6 percent. I think
13 I had misspoken the first time.

14 **Q. And then move on to the cross section. And do**
15 **the wells on this cross section adequately represent the**
16 **2nd Bone Spring in this area?**

17 A. Yes. So starting from the left going to the --
18 to the right, we would have the East Hat Mesa State in
19 the middle of Section 7, going to the Eaves Unit 1,
20 which is in the south of 18, the Dagger State 504, which
21 is -- which toes [sic] into the south of Section 18, and
22 then the Eaves Lea Unit State 1, and that shows that the
23 reservoir is fairly consistent all the way across
24 Section 18. And that is the -- and the red line there
25 is the proposed Trucker 501H and the 502H. And you can

1 see it's a 100-foot mesa there. Offset would have
2 dropped our well right down into the top of the 3rd Bone
3 there.

4 The next plat is the 2nd Bone Spring
5 production shown from the -- from all the 2nd Bone
6 Spring wells being shown on the map, starting with the
7 "Well Label" on the left and going through showing spud
8 and completion dates, six-month cums and total cums.
9 And it also shows your well orientation, whether they're
10 north-south-trending wells or east-west-trending wells.

11 They do not specify whether it's drilled
12 toe up or toe down.

13 Q. And then finally, the last two pages of Exhibit
14 12 are the C-102s for the 501 and 502H wells?

15 A. Yes.

16 Q. And will the locations of these wells be the
17 orthodox locations?

18 A. Yes.

19 Q. One thing I notice, not only with respect to
20 these two but the other three C-102s, if you look at,
21 say, the 501H C-102, your location from the east line is
22 proposed to be 2,247 feet. Rather than -- you could
23 move it west to 2,310 feet, correct?

24 A. Correct.

25 Q. Why do you do that rather than go to the

1 **furthest extent?**

2 A. Well, going at 2,310, that is your minimum
3 setback line. And I have -- out of my experience of
4 being involved in over 120 horizontal wells, I have yet
5 to see a horizontal wellbore stay in a 10-foot
6 east-and-west window. Staying in a 10- or 15-foot
7 window is a little bit easier than keeping it east and
8 west.

9 Q. So you wouldn't want the wells to wander and
10 become unorthodox, and then you're going to have to
11 apply for an unorthodox-location approval to produce the
12 well?

13 A. Right, or possibly not complete that interval
14 if it was denied.

15 Q. Okay. And let's move on to the 3rd Bone
16 Spring. Can you run through the same process with
17 respect to Exhibit 13, please?

18 A. Yeah. Exhibit 13, the first map is, again, a
19 3rd Bone Spring Sand structure map on a 50-foot contour
20 interval, and it's dipping down to the south, southeast.
21 We have about a 100-foot TVD change across that dipping
22 down to the south, southeast. And the wells as shown on
23 here are similar definition as the ones on the 2nd Bone.
24 These are all 3rd Bone Sand wells. The bubbles are
25 based off the six-month cum.

1 And there was a recent 3rd Bone Spring well
2 that was just -- that just came on a couple of months
3 ago that I would like to point out here, the Becknell
4 State Com 4. That has a surface hole in the southwest
5 quarter of Section 5. It's a two-mile-long 3rd Bone
6 Sand well, and it TDs in the southwest of the northwest
7 quarter of Section 17, just adjacent to Section 18. And
8 in three-plus months, that has cumed 114,000 barrels.
9 So it actually didn't end up meeting our six-month cums,
10 but I noted it.

11 **Q. And that well was drilled from north to south?**

12 A. Yes. That was toe down.

13 **Q. And continue on, page 2.**

14 A. Yes. The next map is a 3rd Bone Spring Sand
15 isopach on a 25-foot contour interval, and we're showing
16 anywhere between two -- approximately 250-foot gross
17 isopach. And, again, these are showing the -- these are
18 showing the 3rd Bone Spring wells. Case Number 15994 is
19 only for the east half -- the east half-east half on
20 that one.

21 **Q. And the next page, the depth sand map?**

22 A. Yeah. The next page is the PHIA greater than 8
23 percent net sand map, and this is showing -- again, we
24 would be in the 225-foot range of sand greater than 8
25 percent. The whole 3rd Bone Sand has pretty consistent

1 porosity.

2 The next -- the next page is the same
3 cross-section wells as previously shown, and this is
4 showing where our 3rd Bone Sand target would be. It's
5 approximately 100 feet above the top of the Wolfcamp.
6 One of our reasons for that -- and that's -- we do not
7 dispute that the -- that the most optimal rock is the
8 basal 3rd Sand, but we do feel the X-Y sands in the
9 Wolfcamps are a better target, as has been shown by
10 recently completed Wolfcamp wells. So we are trying to
11 keep our vertical offset a little bit -- a little bit
12 further apart than some of those recent 3rd Bone Sand
13 X-Y tests. And I'll go into that more here in a moment.

14 **Q. But anyway, what you're basically saying is**
15 **your development proposal will adequately develop the**
16 **3rd Bone Spring and the X-Y Sand?**

17 A. Yes.

18 **Q. And then the next plat, again?**

19 A. And the next plat is, again, a table showing
20 the cum 3rd Bone Spring Sand production, with the first
21 six-month cums and the total cums listed for the wells
22 being shown on the maps.

23 **Q. And then the final page is the C-102 for the**
24 **601H. This is, again, an orthodox location; is it not?**

25 A. Yes.

1 Q. Not north-south, but it's close to the middle
2 of the half section?

3 A. Yes.

4 Q. And do you think that is necessary to
5 adequately develop the Wolfcamp -- I mean the 3rd Bone
6 Spring throughout the entire east half of Section 18?

7 A. At the moment, that spacing seems -- seems
8 fitting pending -- pending additional well results.

9 Q. And finally, let's move on to your Exhibit 14,
10 Mr. Metz. Go through that one, please.

11 A. Okay. This is the Wolfcamp A structure map.
12 Again, we are showing a consistent dip going down to the
13 south, and this is on a 50-foot contour interval. And
14 across this acreage, there is about a 100-foot TVD
15 change. Nothing readily showing any faulting or
16 anything like that.

17 The three bubbled wells are the three
18 current Wolfcamp producers. The Della Federal -- that
19 has been mentioned previously -- is up there in the
20 north in Section 29. The Moss Fed 4 is in Section 34,
21 and then in 21-33 is the Witherspoon 26-33 #1H. The two
22 northern Wolfcamp wells are X-Y Sand targets. The
23 Witherspoon is a Lower A.

24 Q. Looking at those three wells, is there any
25 difference between a north-south and a south-north well?

1 A. At this point I can't say that I see a huge
2 difference there. The Moss Federal has cumed 121,000
3 barrels in a toe-down. The Della Federal cumed 96,000
4 barrels in the first -- in the first six months in a
5 toe-up, and the Witherspoon, 89,000 barrels in the first
6 six months in a toe-up orientation. So looking at just
7 these three, the Moss Federal has been showing the
8 greatest cum.

9 **Q. Is there a recently spudded Wolfcamp well in**
10 **this area?**

11 A. So there is a Wolfcamp well that has just been
12 spud by Advance Energy playing in the same fairway as
13 the Dagger State 504H. It is in the east half-east half
14 of the mile -- one-and-a-half-mile unit, consisting of
15 Section 19 and Section 30, and that was just spud on
16 February 20th.

17 **Q. So you have no further data?**

18 A. No. No.

19 **Q. Let's keep on moving on to page 2, please.**

20 A. Okay. This is also a gross isopach of the
21 Wolfcamp A showing about 3 -- about 350 feet from the
22 top of the Wolfcamp A to the top of the Wolfcamp B.

23 The next map is an 8 percent or greater,
24 and it's giving us a -- on a 25-foot contour interval
25 anywhere from 300- to 350-foot thick reservoir greater

1 than 8 percent.

2 The next page is the cross section, and
3 this is identifying the excess sand, which is the 2nd
4 Sand below the top of the Wolfcamp A. That is good for
5 our 701 and 703. There are three wells. And has been
6 shown on previous exhibits, there is about 150-foot
7 total TVD in between the 3rd Bone Sand and this excess
8 sand.

9 The next page is the six-month cums of the
10 Wolfcamp wells that have the bubbles on the three
11 previous other maps. I do apologize. It looks like the
12 well label names got cut off. But as it starts from the
13 top, that would be the Della 701, and then the center
14 well is the Moss Fed 4H, and then the third well is the
15 Witherspoon well. It still has -- and the location
16 data.

17 **Q. Are the final two pages simply the C-102s for**
18 **the well showing the locations?**

19 A. Yes. Yes.

20 **Q. And those wells are at orthodox locations?**

21 A. Yes.

22 **Q. In your opinion, does Advance [sic] have a**
23 **geological drilling program that will completely develop**
24 **the 2nd -- the Bone Spring and then the Wolfcamp in this**
25 **area?**

1 A. Yes. Yes.

2 Q. And maximum production in this area?

3 A. Yes.

4 Sorry. Did you say Advance or Ascent?

5 Q. Ascent.

6 A. Ascent. Yes.

7 Q. And in each Bone Spring and Wolfcamp zone, are
8 they continuous across each of the well units?

9 A. Yes.

10 Q. And in your opinion, will each quarter-quarter
11 section in the well unit contribute more or less equally
12 to production?

13 A. Yes.

14 Q. And were Exhibits 11 through 14 prepared by you
15 or under your supervision or compiled from company
16 business records?

17 A. Yes.

18 Q. And in your opinion, is the granting of
19 Ascent's application in the interest of conservation and
20 the prevention of waste?

21 A. Yes.

22 Q. In your opinion, should Centennial's
23 applications be denied?

24 A. Yes.

25 MR. BRUCE: Mr. Examiner, I move the

1 admission of Exhibits 11 through 14.

2 EXAMINER JONES: Any objection?

3 MR. FELDEWERT: No objection.

4 MS. BRADFUTE: No objection.

5 EXAMINER JONES: Exhibits 11 through 14 are
6 admitted.

7 (Ascent Energy, LLC Exhibit Numbers 11
8 through 14 are offered and admitted into
9 evidence.)

10 CROSS-EXAMINATION

11 BY MR. FELDEWERT:

12 Q. Mr. Metz, I'm looking at your Exhibit Number
13 11.

14 A. Yes.

15 Q. You describe this as your company's idealized
16 plan, correct?

17 A. Yes.

18 Q. Now, I'm trying to ascertain from this
19 idealized plan exactly which of these dots on here were
20 proposed and at issue here today. Okay?

21 A. Yes.

22 Q. All right. Help me out. Which -- if I'm
23 looking at the 2nd Bone Spring Sand --

24 A. Uh-huh.

25 Q. -- okay, I see -- those would be the 501, 500

1 **series wells?**

2 A. Uh-huh.

3 **Q. Which one -- which of these dots represent your**
4 **proposed 500-series wells?**

5 A. I believe they are the two outside wells.

6 **Q. So the two outside wells --**

7 A. Uh-huh.

8 **Q. -- in the orange line?**

9 A. Yup.

10 **Q. Okay. Now, with respect to your**
11 **single-proposed 3rd Bone Spring well --**

12 A. Correct.

13 **Q. -- which of these dots should I put a box**
14 **around to represent the well that is actually at issue**
15 **here today?**

16 A. So as I said, these are idealized. So the 3rd
17 Bone Sand well is actually at an offset to approximately
18 11 -- I believe that was -- the 601 is at 1,120 from the
19 east -- from the east line. And if you look at the top
20 of the chart, it basically starts at zero, and it goes
21 at 100-foot intervals on that box. And the 1,120 would
22 end up putting it in an unorthodox 160 stand-up
23 location.

24 **Q. Okay. So which -- if I look at the two dots --**

25 A. So these are based off of the generalized

1 1,320. These other dots are not representative of the
2 exact footage calls off of the C-102s.

3 Q. All right. Let me make sure -- I'm going to
4 stop you and make sure I understand you.

5 So none of the dots in the brown line,
6 which represents the 3rd Bone Spring Sand --

7 A. Uh-huh.

8 Q. -- none of those depict the well which the
9 company actually proposed and then filed for forced
10 pooling?

11 A. Those are from the C-102 locations. So where
12 those two Wolfcamp X-Y wells that are at approximately
13 370 off the east -- off the east line and 1,870, which
14 is 1,500-foot well spacing, are set differently than
15 what the idealized spacing would be, the reason being --

16 Q. Hold on. Hold on. I'm not asking for the
17 reason. I'm just trying to get the facts together.

18 A. Sure. Sure.

19 Q. Okay. Now, the company proposed wells at
20 specific formations at specific locations with vertical
21 depths, right?

22 A. Yes.

23 Q. Okay. And they did that the day before they
24 filed the pooling application, and then they filed the
25 pooling applications for those wells, correct?

1 A. Yes.

2 Q. Okay. So here's my question: One of the wells
3 that they filed the pooling application for was the 601H
4 in the 3rd Bone Spring Sand, right?

5 A. Correct.

6 Q. Okay. When I look at the brown lines on here
7 in your Exhibit Number 11, that represents the 3rd Bone
8 Spring Sand, correct?

9 A. (Indicating.)

10 Q. Yes?

11 A. Correct. Yes.

12 Q. Do any of those dots on there -- those black
13 dots represent the well that was proposed?

14 A. So as I said, that would be the idealized 1,320
15 well spacing if you're going to fit four wells per
16 section or two wells per half section, which, where this
17 is at now, the 3rd Bone Spring Sand well that was sent
18 in the well proposal was at 1,120, I believe. So it
19 would be two more squares left of that first 3rd Bone
20 Spring Sand on the right side.

21 Q. Okay. All right. So it would be two squares
22 left --

23 A. Uh-huh.

24 Q. -- of that black dot?

25 A. Yes.

1 Q. So that black dot doesn't represent what was
2 proposed?

3 A. No.

4 Q. And the company then proposed two Wolfcamp
5 wells, right?

6 A. Correct.

7 Q. 701?

8 A. Yes.

9 Q. And 703?

10 A. Yes.

11 Q. Okay. In the Wolfcamp at certain depths?

12 A. Yes.

13 Q. In the Wolfcamp line here, there is -- I guess
14 there is two of them. There are two green Wolfcamp
15 lines on here, right?

16 A. Yes.

17 Q. Wolfcamp X-Y and the Wolfcamp A?

18 A. Yes.

19 Q. Which of these dots in either of those two
20 lines represent the Wolfcamp wells that are actually
21 proposed and at issue here today?

22 A. So they would be the 703, is on the -- I see
23 the offsets here representing the east or west or west
24 to east are Wolfcamp wells. The 701 would be 1,870 off
25 of the east line, which I would put it approximately

1 just east of that red-dashed line.

2 Q. So the second green line --

3 A. Oh, I'm sorry. I'm sorry. So the 701 is in
4 the west half of the east half. It would be -- it would
5 be just outside. So showing it on here, on the
6 idealized 1,320 spacing, doesn't exactly show the exact
7 location. It would be a little bit left of there.

8 Q. Of what?

9 A. Of that first Wolfcamp X-Y well or the left
10 side.

11 Q. So I've got a first -- I'm in the X-Y Wolfcamp
12 X-Y bar, right?

13 A. Yes.

14 Q. And there is a dot there in the pink area?

15 A. Correct.

16 Q. And you're saying your well proposal is two
17 squares left of that?

18 A. Yes.

19 Q. That's what you proposed --

20 A. Yes.

21 Q. -- right?

22 So you didn't propose the well in the

23 Wolfcamp A. You're saying you proposed it in the X-Y?

24 A. Yes, which is part of the -- part of the
25 Wolfcamp.

1 Q. But in your well-proposal letters and what's at
2 issue here today, you proposed a different location than
3 what is shown on your idealized plan, correct?

4 A. Correct.

5 Q. Now, what about the other well?

6 A. It would be that far eastern X-Y well that is
7 370 off of the east line.

8 Q. That black dot --

9 A. Yes.

10 Q. -- and that first green bar?

11 A. Yes.

12 Q. Again, not in the Wolfcamp A, but in the
13 Wolfcamp X-Y?

14 A. Yes.

15 Q. All right. So am I correct, then, that this
16 idealized plan doesn't match up with what you proposed
17 to Centennial?

18 A. Correct.

19 Q. And it doesn't match up with what was pooled --
20 subject to the pooling applications here today?

21 A. I don't understand the question there.

22 Q. Okay. So it doesn't match up with what was
23 sent in the well-proposal letters the day before you
24 sent -- before you filed your pooling application?
25 Doesn't match up with those wells?

1 A. No, because this is an idealized.

2 Q. Okay. So this is different, then, from what
3 you proposed to Centennial?

4 A. Correct.

5 Q. Why didn't you propose your idealized plan?

6 A. Because we are -- we are currently evaluating
7 whether a 660 offset in between a 3rd Bone Sand and a
8 Wolfcamp X-Y or even an A is a reasonable spacing
9 offset. There has only been two of those tests done
10 anywhere near our Section 18. That would be the Della
11 Fed, which has been noted previously, is on 880 spacing
12 in between the 3rd Bone Sand and a Wolfcamp excess [sic]
13 sand, and their 3rd Bone Sand was landed in the 3rd
14 basal sand package. Concho's Moss Fed --

15 Q. Okay. Let me step back.

16 So the reason you didn't propose your
17 idealized plan is because you were still trying to
18 figure out the well spacing. Is that fair?

19 A. Yes.

20 Q. Okay.

21 A. And we only needed to propose one well in each
22 zone.

23 Q. Okay. Now, the next question that I have, if
24 I'm understanding this correctly, is you didn't propose
25 the Wolfcamp -- any Wolfcamp A wells? You proposed

1 Wolfcamp X-Y? That's what you meant to propose?

2 A. Yes, which is in the Wolfcamp A.

3 Q. The X-Y zone?

4 A. Yes.

5 Q. But it would actually be closer, then, to the
6 3rd Bone Spring Sand zone than what Centennial has
7 proposed?

8 A. Yes.

9 Q. Closer in proximity?

10 A. Yes. And it's approximately 50 feet lower than
11 the top of the Wolfcamp A, which would be -- which is
12 where the 3rd Bone Sand lays on top of.

13 Q. Now, if I look at your idealized plan here --

14 A. Uh-huh.

15 Q. -- and I look at the -- on the right-hand side
16 and I look at the -- I'm sorry. If I look in the middle
17 here, I see some wells that are stacked on top of each
18 other. You've got the 3rd Bone Spring Sand well and
19 then your theoretical Wolfcamp well?

20 A. Yes.

21 Q. I see that in two places. What's the
22 approximate distance between those?

23 A. That's about 160-feet TVD.

24 Q. 160 feet difference between those two wells
25 right on top of each other; is that right?

1 A. So -- yeah. It would be -- let me refer back
2 here. So from where our 3rd Bone Sand target would be,
3 which is about 100 feet, and down to the Lower A is 260
4 feet TVD, because our 3rd Bone Sand targets
5 approximately 100 feet above the basal 3rd -- the 3rd
6 Bone Sand boundary.

7 Q. Okay. Just so I'm clear, if I look at Exhibit
8 11 --

9 A. Yeah.

10 Q. -- that's your idealized plan.

11 A. Yeah.

12 Q. I recognize that these weren't proposed. But
13 your idealized plan, I have two dots that appear to be
14 on top of each other --

15 A. Uh-huh.

16 Q. -- in both the brown zone and the green zone,
17 right?

18 A. Uh-huh.

19 Q. And what's the distance between those two,
20 again? I'm sorry.

21 A. So in between the 3rd Bone Sand target and the
22 Wolfcamp A target is about 260.

23 Q. Okay. Thank you.

24 All right. Now, my next question -- and I
25 think I'm starting to understand this. If I go back up

1 to that orange line with the 2nd Bone Spring well
2 proposals --

3 A. Yes.

4 Q. -- okay, and I look at the footages, the dots
5 that you have there in the orange line, they don't
6 represent what was proposed?

7 A. Those should be fairly out there close.

8 Q. But your footages, at least as proposed, would
9 be in different boxes than what you have your black dot,
10 correct?

11 A. So if you look at the 5 -- at the 501H --

12 Q. Yup.

13 A. -- which was proposed at 2,247 rather than
14 2,310, which is on that line, so about 60 feet off of
15 the setback line, so I think that's pretty close to
16 where that 2nd Bone Spring Sand well dot is on the far
17 left side.

18 Q. But that's not what you proposed. It would be
19 in the box over, right?

20 A. No.

21 Q. At 22- -- what did you say? 2,210?

22 A. 2,280. Sorry. It's at 2,280, the bottom --
23 bottom-hole location.

24 Q. And you have the black dot in the 2,300 box?

25 A. No. The 2,300 line, that is the line on the

1 left-hand side of the number.

2 Q. Yes.

3 A. Yes. So it's inside -- a little bit more than
4 half from the 220. It's an approximate, being that all
5 these dots are probably 70-feet or maybe 50-foot
6 diameter, if you're looking at them on the -- based on
7 the size of the box.

8 Q. Now, what about your other depiction here?
9 You've got the black dot --

10 A. The 502?

11 Q. -- a 2nd Bone Spring Sand, the 502?

12 A. Yeah.

13 Q. Is that black dot in the right spot on the
14 right-hand side?

15 A. About 360. That is probably a little further
16 west. Those dots on this idealized was just based on a
17 consistent spacing.

18 Q. Not on what you proposed?

19 A. Right.

20 Q. Okay. So these don't represent what you
21 proposed?

22 A. No.

23 Q. Got it. Okay.

24 My next question is: If I understand what
25 you're doing here, didn't you testify previously that --

1 or didn't the company indicate previously that you plan
2 to target the 2nd Bone Spring Sand first instead of the
3 lower zone?

4 A. That was the -- that was one of the initial
5 well proposals sent. We were only planning on drilling
6 a single -- a single other well first, and that was
7 going to offset the best-producing well regardless of an
8 interval in a few-mile radius.

9 Q. Is your plan today to target the 2nd Bone
10 Spring Sand first?

11 A. I don't think that we've decided on our final
12 drilling order.

13 Q. You don't know?

14 A. No.

15 Q. Now, a month ago --

16 A. Because --

17 Q. A month ago, Mr. Metz, didn't you testify that
18 the intent of the company was to target the 2nd Bone
19 Spring Sand first?

20 A. That was our original intent.

21 Q. Okay. But now you're not sure?

22 A. But, as with anything, schedules can change.
23 Orders can change. So as of right now, nothing is set
24 in permanent stone.

25 Q. Okay. So the Examiners don't know what your

1 **first target zones are?**

2 A. Well, we will be drilling all three of those
3 wells on each quarter or on each -- on each DSU there
4 at -- at the same time. So the Wolfcamp, the 3rd and
5 the 2nd Bone Spring would probably be the other drilled
6 at the same time on the one. Which one goes down first,
7 it's going to be a batch of drilling ops. We already
8 have a petrophysical log on the south of 18, so our
9 landings are pretty solid.

10 **Q. But you've only proposed five wells?**

11 A. Uh-huh.

12 **Q. Okay.**

13 A. And that does not preclude us from proposing
14 more, and an order has all been granted. The wells that
15 we have proposed don't fully -- aren't -- those aren't
16 our full -- our full development plan for the east half
17 of Section 18.

18 **Q. Okay.**

19 A. I don't believe anybody sends out 18 well
20 proposals for one-half.

21 **Q. But for purposes of the hearing today --**

22 A. Yes.

23 **Q. -- and for purposes of the pooling orders that**
24 **you have requested --**

25 A. Uh-huh.

1 Q. -- we can only go by the wells you have
2 proposed, correct?

3 A. Uh-huh. Yes.

4 Q. And if I understand you -- correct me if I'm
5 wrong -- all you've done is in one of your spacing
6 units, you've proposed the 2nd Bone Spring well, the 3rd
7 Bone Spring well and the Wolfcamp well, correct?

8 A. Correct.

9 Q. And in the other spacing unit -- I don't know
10 which one it is -- you've only proposed the 2nd Bone
11 Spring well and the Wolfcamp well?

12 A. Yes.

13 Q. And so at this point in time, you can't tell us
14 the company's plans as to which is going to be developed
15 first?

16 A. No.

17 Q. All right. Now, a month ago, you also
18 testified that the company was still working on its
19 completion plan, correct?

20 A. Yes.

21 Q. Is that still the case?

22 A. Yes.

23 Q. You don't have a proven method yet?

24 A. No, sir.

25 Q. Okay. Finally, the 3rd Bone Spring well, the

1 one that you have proposed --

2 A. Yes.

3 Q. -- your 601H --

4 A. Yes.

5 Q. -- do you intend to put that -- well, let me
6 step back.

7 The bubble maps that you show here for the
8 3rd Bone Spring Sand --

9 A. Yes.

10 Q. -- are those cum productions?

11 A. Those are six-month cums.

12 Q. Are those wells completed in the basal sands?

13 A. Most of them are.

14 Q. Most of them are.

15 A. There are a few that are in the next sand body
16 up, which would be the Boone [phonetic] State wells in
17 Section 16.

18 Q. If I go into your exhibit here and I go to the
19 page that has the cross section --

20 EXAMINER JONES: Which exhibit?

21 MR. FELDEWERT: Exhibit 13.

22 Q. (BY MR. FELDEWERT) -- the page that has the
23 cross section --

24 A. Yes, sir.

25 Q. -- there is a line there --

1 A. Yes, sir.

2 Q. -- the proposed landing zone for your 601 3rd
3 Bone Spring Sand well?

4 A. Yes.

5 Q. What sands does that target?

6 A. That is the -- that is the next sand lobe above
7 the basal 3rd Bone Spring Sand.

8 Q. So it's not targeting the basal sands that
9 are --

10 A. The basal sand is that lower sand lobe. If you
11 look at these from the relative depth off the top of the
12 3rd Bone Spring Sand, the basal sand body is from minus
13 240 -- or 240 up to about 190, and we'll be testing that
14 next sand package just up above that at about 140 feet
15 below the base of the top of the 3rd Bone Sand, which is
16 similar to what the Boone State wells target.

17 Q. So you're not targeting the same sand that had
18 been the subject of the cumulative productions?

19 A. All of these are 3rd Bone Sand.

20 Q. Okay. But you're not targeting the basal sand?

21 A. Correct. All of those are 3rd Bone Sand for
22 that whole -- for that whole interval.

23 Q. And I think you just testified that most of
24 those are completed in the basal sand?

25 A. Most, yes.

1 Q. Okay. And secondly, if I'm understanding, the
2 sand that you're targeting with your 601H is a different
3 sand, not the basal sand?

4 A. Correct.

5 Q. Okay. And number two, it's going to be closer
6 to the top of the Wolfcamp than what Centennial has
7 proposed?

8 A. No.

9 Q. It will be -- is it higher?

10 A. Yes.

11 Q. Okay. All right.

12 A. That basal 3rd -- that Bone Sand lies right on
13 top of the Wolfcamp.

14 Q. Right on top of the Wolfcamp?

15 A. Yes.

16 Q. And Centennial's 3rd Bone Spring well is going
17 to be further away from the top of the Wolfcamp,
18 correct?

19 A. No. It'll be closer. They're on the -- they
20 are in the basal sand.

21 Q. And you're above the basal sand?

22 A. Correct.

23 Q. That's all the questions I have.

24 MS. BRADFUTE: I have no questions.

25 EXAMINER LOWE: I have no questions at this

1 time.

2 CROSS-EXAMINATION

3 BY EXAMINER BROOKS:

4 Q. I'm thoroughly confused, but I simply ask this
5 question: If the Examiner decides to -- Examiners
6 decide to grant your application, Ascent's application,
7 can we look at Ascent's Exhibit 8 to find the locations
8 and the configuration of the proposed spacing units and
9 write up an order based on the data in Ascent's Exhibit
10 8, and that's going to be the units and the wells that
11 you currently want us to compulsory pool for?

12 A. I don't have Exhibit 8 here in front of me.

13 MR. FELDEWERT: That would be the well
14 proposal.

15 THE WITNESS: Oh. Yes.

16 Q. (BY EXAMINER BROOKS) This group of
17 well-proposal letters, the first being for the 501,
18 September 26th, and we understand that that's amended by
19 the first January 22nd, 2018 letter, correct?

20 A. Yes. I believe if we were to be ruled in favor
21 of, then the spacing of all these wells would be -- can
22 be consistent across both those.

23 Q. When the first January 22nd letter says
24 "contract area," that means the spacing unit or project
25 area that you're proposing to use?

1 A. Yes.

2 Q. Okay. Thank you. I think that's all I have.
3 That will guide us in the right direction if we decide
4 to go that way.

5 CROSS-EXAMINATION

6 BY EXAMINER JONES:

7 Q. So the well locations as stated here, there is
8 no on-site scheduled for the BLM, or is it -- is this
9 BLM acreage for the surface?

10 A. No. But since the wellbore [sic] crosses BLM,
11 we did have to set up an on-site, and Jody Robbins, our
12 VP of drilling, has been dealing with that.

13 Q. Okay.

14 A. One thing I would just like to add in there
15 about the Wolfcamp spacing, 3rd Bone Spring Sand is that
16 the wells around here -- the only two companies that
17 have been doing Wolfcamp X-Y basal 3rd Bone Sand testing
18 were those Della and Moss Fed wells, with a vertical
19 distance separation of under 100 feet. But their
20 tightest spacing has only been 880, and those are on the
21 Della wells. The Moss Fed wells have tested at 1,320.
22 They're currently testing -- or drilling. They have
23 recently TD'd one of the Wolfcamp wells to end up going
24 down to a 660. If that comes out as that is -- if that
25 is a reasonable spacing set, then we would certainly be

1 looking at that spacing offsets.

2 Q. As infill wells, maybe?

3 A. Yes. Yes.

4 Q. Okay. Now, the -- I guess I was mistaken. The
5 Wolfcamp X-Y, I was thinking that's a 703H. But I think
6 you're talking about Wolfcamp X-Y being real close to
7 the base of the 3rd Bone Spring?

8 A. Yes.

9 Q. Okay. So I got these reversed.

10 A. Yeah. The 703 and the 701 are both X-Y sand
11 targets.

12 Q. Okay. 703 and the 701 are X-Y?

13 A. Yes. Yes.

14 Q. I know they're only 15 feet apart vertically.

15 A. Yeah.

16 Q. Okay. X-Y.

17 A. Formally targeting the X sand, the lower one.

18 Q. Okay. Okay. There are no depth severances, so
19 that is reasonably close to the base of the Bone Spring,
20 so it's real close to that unconformity.

21 A. Between -- yeah. There is -- I'm sorry. What
22 was your question?

23 Q. The Wolfcamp A that's being proposed by
24 Centennial is how much further vertically below this?

25 A. That's approximately 100 feet lower than that

1 our X sand, approximately.

2 Q. Okay. Okay. But you've got these 15 feet
3 vertically apart?

4 A. Or maybe 150 feet where your target is from --
5 from that basal sand. Yeah. I think they had 250.

6 Q. Okay. And then you were talking about the base
7 of the sand -- 3rd Bone Spring Sand -- the basal of the
8 3rd Bone Spring Sand. And to me it just looks like one
9 big ol' sand (laughter).

10 A. Yeah. There are individual lobes there.

11 Q. Okay. There are?

12 A. Yeah.

13 Q. Okay. Can you tell us -- so you're
14 basically -- you're watching closely the drilling that's
15 going on out there right now. But this is your proposal
16 right now?

17 A. Yes.

18 Q. Okay. So we can run with this if -- okay.

19 A. Yes.

20 Q. Okay. Because the applications didn't have a
21 lot of detail on the locations, but you're showing them
22 here at the hearing.

23 And the philosophy seems to be the Wolfcamp
24 X-Y is your best bet right now?

25 A. Yes.

1 Q. But you still like the 3rd Bone Spring also?

2 A. Yes, and the Lower A as a future target down
3 the line.

4 Q. Okay. You would go below where they're
5 drilling?

6 A. Probably a little bit lower, yes.

7 Q. Okay. And so from a geologic standpoint, you
8 would rather operate because you like your target better
9 than their target; is that correct?

10 A. Yes.

11 Q. Okay. Okay.

12 A. And we also have the efficiencies of everything
13 else right in the area on the west side and drilling the
14 north to the Big Bucks just keeps everything tidy.

15 Q. Okay. And you're not worried about drilling
16 toe down?

17 A. No.

18 Q. Yeah. We can talk to the engineer about that.

19 So as far as the advantage of the Wolfcamp
20 X-Y versus the Wolfcamp A, your testimony previously has
21 got all that in it?

22 A. (Indicating.)

23 Q. Okay. And so why -- what case would you make
24 for the Wolfcamp A if you were going to make that case?
25 Which well would be the well you would cite as being the

1 **Wolfcamp A, best one in the area?**

2 A. That would be the Witherspoon.

3 **Q. Okay. Witherspoon.**

4 A. Yes, if you look at the cum plot there. So
5 they targeted the Lower A.

6 **Q. And that's a good well?**

7 A. It is a decent well. It's cumed 90,000 barrels
8 in six months. Now, they did have quite a bit of
9 drilling difficulties. Over there, you do get a little
10 bit more carbonate intrusion going on. So they had
11 six --

12 **Q. Six bits?**

13 A. -- six bit trips [sic] in the first mile --
14 one-and-a-quarter miles, and the well was planned to be
15 a two-mile lateral well. And so they cut it off short.

16 **Q. Oh. So those anhydrites or whatever they were**
17 **hitting makes it --**

18 A. They were hitting some carbonates over there,
19 which we don't have over here.

20 **Q. Okay. You don't even have them over here?**

21 A. No.

22 **Q. Even if you did go in that A?**

23 A. Right.

24 **Q. How do you know that, that you don't have them**
25 **here (laughter)?**

1 A. They actually had a pilot -- pilot log there.

2 Q. Those two dry holes in that Section 18, are
3 they -- I'm not -- they're not necessarily dry hole.
4 But I just saw -- be ONGARD wells there.

5 A. Yeah. They were old Morrow tests.

6 Q. Morrrows.

7 Is the Morrow any good over here?

8 A. They were okay, but it's certainly not
9 something you would be targeting now.

10 Q. Did you see anything interesting in the Upper
11 Pennsylvanian?

12 A. So I really haven't gone quite all that deep
13 yet.

14 Q. Okay. Okay. Thanks very much.

15 EXAMINER JONES: Does anybody --

16 MR. BRUCE: Just a couple follow-ups,
17 Mr. Examiner.

18 REDIRECT EXAMINATION

19 BY MR. BRUCE:

20 Q. Just very briefly, Mr. Metz, your proposed
21 Wolfcamp wells are very close to the top of the
22 Wolfcamp?

23 A. Yes.

24 Q. Closer than Centennial's proposed wells?

25 A. Yes.

1 Q. And insofar as the correct well locations,
2 those are set forth on the last pages of Exhibits 12, 13
3 and 14?

4 A. Yes.

5 Q. The C-102s set forth the correct well
6 locations?

7 A. Yes.

8 Q. That's all.

9 MR. FELDEWERT: I do have a follow-up to
10 Mr. Brook's question.

11 EXAMINER JONES: Yes.

12 RECROSS EXAMINATION

13 BY MR. FELDEWERT:

14 Q. If you went by Exhibit 8, your well-proposal
15 letters, okay, where would you find a depiction of your
16 plan. That was his question to you. And if I turn to
17 Centennial Exhibit Number 11, Mr. Metz, doesn't that
18 accurately reflect what's proposed in Ascent's
19 well-proposal letters? That would take into account the
20 footages you identified and the total depth you
21 identified?

22 A. Yes. No. No. I'm sorry. No. That 3rd Bone
23 Spring Sand, I believe is up one more.

24 Q. The 3rd -- the orange dot?

25 A. The 3rd Bone, the Trucker 601, they have that

1 landing, it looks like, down towards the bottom of that
2 basal there and where I've got it.

3 Q. So that orange dot might be a little higher, is
4 that what you're saying?

5 A. Yes.

6 Q. But it would be in the right location?

7 A. Yeah.

8 Q. So my point is: If you look and you're trying
9 to match up with the well-proposal letters, it would be
10 Exhibit Number 11 in terms of well locations, correct?

11 A. Yes.

12 Q. Centennial Exhibit Number 11 --

13 A. Yes.

14 Q. -- not Ascent's letter?

15 A. Based on the footages east and west.

16 Q. Okay. Finally, you said you want to target the
17 X-Y zone in the Wolfcamp because of the Della wells?

18 A. The Della 701 was an X sand, and the Moss Fed
19 4H was an X sand as well.

20 Q. An X sand?

21 A. Uh-huh.

22 Q. Would it surprise you to learn that the Della
23 well was not drilled in the X-Y zone but in the A zone?

24 A. Based on landing directional plans, it looks --
25 it looks as though it landed in the X.

1 Q. Okay. Are you aware we have someone in the
2 room that can testify that they drilled the well?

3 A. I probably am, yes.

4 Q. Okay. And that they landed the well in the
5 Wolfcamp A, right?

6 A. I don't know what he would say, but they
7 probably would.

8 Q. And would you agree with me that since he
9 drilled the well -- was there and drilled the well, he
10 has better knowledge than you do about where they landed
11 the well?

12 A. Probably would.

13 Q. Okay. Thank you.

14 EXAMINER BROOKS: Well, I'm not disparaging
15 the clarifications that were asked for, but just to
16 correct the record, I did not ask about the depiction.
17 I simply asked if we could rely on Exhibit 8 to define
18 what Ascent is asking us to do. Thank you.

19 I have no more questions.

20 MR. BRUCE: One other.

21 REDIRECT EXAMINATION

22 BY MR. BRUCE:

23 Q. On that same Exhibit 11, Mr. Metz, up in the
24 2nd Bone Spring, the 501H, that's actually going to be
25 right at the same level AS the 502H; is it not?

1 A. Yes.

2 **Q. Thank you.**

3 MR. FELDEWERT: You're talking about
4 Centennial Exhibit 11?

5 MR. BRUCE: Centennial Exhibit 11.

6 That's all I have with this witness,
7 Mr. Examiner.

8 EXAMINER JONES: Okay. Thank you very
9 much.

10 EXAMINER BROOKS: If we're going to have
11 another witness this afternoon, I would like to have a
12 break.

13 (Recess, 4:57 p.m. to 5:04 p.m.)

14 EXAMINER JONES: Mr. Bruce, you can call
15 your next witness, please.

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

19 DIRECT EXAMINATION

20 BY MR. BRUCE:

21 **Q. Would you please state your name for the**
22 **record?**

23 A. My name is Jody Robins.

24 **Q. And where do you reside?**

25 A. Denver, Colorado.

1 Q. Do you work for and in what capacity?

2 A. Ascent Energy as the VP of drilling.

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

5 A. I have not.

6 Q. Would you summarize your educational and
7 employment background for the Examiners?

8 A. Sure. I have my BS in petroleum and natural
9 gas engineering from Penn State. That was in '98. So I
10 have 20 years of experience. I've drilled all over the
11 continental United States, over 100 wells, 2/3 of which
12 have been horizontal in various basins, a lot in the
13 Bakken and the Paradox Basin in Utah and the San Juan
14 Basin over just across the border in Colorado and in the
15 Eagle Ford.

16 Q. Okay. And have you been employed by Ascent
17 Energy for roughly the last year and a half or more?

18 A. I have.

19 Q. And are you familiar with the drilling plans of
20 Ascent regarding these proposed wells?

21 A. Yes, I am.

22 Q. And are you also familiar with this plan with
23 respect to Ascent's adjoining acreage?

24 A. Yes.

25 MR. BRUCE: Mr. Examiner, I tender

1 Mr. Robins as an expert drilling engineer.

2 EXAMINER JONES: Any objection?

3 MS. BRADFUTE: No objection.

4 MR. FELDEWERT: No.

5 EXAMINER JONES: So qualified.

6 MR. FELDEWERT: Well, he's only drilled 100
7 wells in 20 years, but that's all right.

8 Q. (BY MR. BRUCE) Mr. Robins, can you identify
9 Exhibit 16 for the Examiner and discuss its contents?

10 A. I can. So this is an overhead map of what we
11 are calling our Hat Mesa area. This is a satellite map.
12 I've identified -- you can see in the very southeast.
13 The yellow box is our Trucker DSU -- our proposed
14 Trucker DSU. Just to the left of that is our Sombrero
15 DSU. Just north of that is our Toque DSU. West of that
16 is our Big Bucks development area, and over just a
17 little bit to the northwest is our Gavilon development
18 area.

19 You can see all the little red boxes on
20 there. All of them except for the Toque DSU are
21 proposed and approved by the BLM. The Toque wells are
22 state. That's a State DSU. And those -- we are
23 currently working on a JOA with Cimarex before we
24 propose those APDs.

25 You can see the green line on here is the

1 midstream company, 3 Bear. That is a permitted and
2 state and currently being built four-string gathering
3 system. So four string being oil, gas, produced water
4 and then a return line for treated, produced water for
5 fracs. And they are also drilling disposal water wells.
6 That's how they will be handling the water.

7 And you can see that for the Trucker DSU,
8 if this is approved, we will already be building roads
9 and infrastructure to our Sombrero DSU and to the Big
10 Bucks development area. So from a surface-use
11 efficiency standpoint, it makes a lot of sense to give
12 us operatorship of the Trucker DSU.

13 In addition, we have already cleared all of
14 those with the grazing lessee, Danny Barry. And he
15 likes putting those up on top of the mesa because grass
16 doesn't grow up. So it's not a problem for him.

17 **Q. Because of that 3 Bear situation, when they**
18 **complete the pipeline, you'll have a way to dispose of**
19 **your produced water?**

20 A. That's correct. We're currently in
21 negotiations with them.

22 **Q. Would you move to Exhibit 17, please?**

23 A. Okay. Exhibit 17 is a little bit zoomed-in of
24 the same image, and, basically, this kind of shows why
25 we put our pads up on top of the mesa. When we

1 initially went to Jim Rutley over a year ago to propose
2 putting pads at the south end of 18, he indicated it was
3 in the potash life-of-mine reserves and that they would
4 not be willing to grant us a waiver. They have since
5 become easier to work with. But then once we started
6 working on this in conjunction the Sombrero pads, it
7 made a lot of sense to put it on top of the mesa. You
8 can see why we can't move it into the north end of
9 Section 18. It's quite deep. And by the time you get
10 to a slope gentle enough to build a pad, you'd have a
11 pretty large back-build in the vertical section where
12 you're drilling.

13 **Q. The BLM probably would not prove that?**

14 A. And probably the BLM would not approve that.
15 That's correct.

16 **Q. And, again, looking at all this, you've got an**
17 **efficiency of design and minimization of surface use for**
18 **roads and pipelines?**

19 A. That's correct. And that's also -- there was a
20 road and pipeline that's also been approved by the BLM.

21 **Q. And can you minimize facilities if you are**
22 **named operator of the east half of Section 18?**

23 A. That's right. If -- because 3 Bear will be
24 building an oil takeaway line, that will allow us to
25 have smaller tank batteries on each one of our pads,

1 which minimizes costs. Also, we won't have to drill our
2 own water-disposal well, which minimizes costs.

3 And, frankly, one of the big advantages
4 that we see is that they'll be treating our water and
5 returning it to us for fracs, which not only minimizes
6 costs but is environmentally the right thing to do.

7 **Q. Let's move on to your Exhibit 18. An identical**
8 **exhibit was submitted under Mr. Zink; was it not?**

9 A. That's correct.

10 **Q. But could you go into a little detail? You've**
11 **been heavily involved in all this situation; have you**
12 **not?**

13 A. Yes. I've spearheaded all of our permitting
14 efforts. And so, like I mentioned before, we initially
15 wanted to put our locations in the south half of 18 and
16 were kind of rebuked. But as we worked on the north, on
17 the ones in 7, we liked those better anyway. We
18 submitted the Trucker notice of stakings to the BLM way
19 back in November of 2017. In the meantime, we met with
20 Danny Barry of Barry Ranch to create a plan he would be
21 okay with. And then just last Monday, we finally had
22 our on-site for the Trucker and the Sombrero surface
23 locations. The BLM was very happy with them, and it's
24 all been approved, including the road and the midstream
25 routes.

1 Q. And in your meeting with Danny Barry, you went
2 over not only the well locations in the east half of
3 Section 18 but for the well locations to the west and
4 north, correct?

5 A. That's correct.

6 Q. So you've been working closely with him so that
7 he would approve of what you were proposing?

8 A. Yes. That's right.

9 Q. And, again, as was already stated, you fully
10 intend to enter an agreement with Cimarex so that they
11 know that Ascent's plans won't interfere with their
12 drilling plans?

13 A. That's right. They just had some input on the
14 location of the road, which is no problem for us.

15 Q. Let's move on to your exhibits, I suppose
16 together, 21 through 25, the AFEs.

17 MR. FELDEWERT: Just for the record, so we
18 don't --

19 MR. BRUCE: Oh, yeah.

20 Mr. Examiner, I messed up and I had some
21 duplicative exhibits, so there is no Exhibit 19 or no
22 Exhibit 20.

23 EXAMINER JONES: I'm going to have to wake
24 up and remember that.

25 Q. (BY MR. BRUCE) But just to be -- so that we

1 don't spend too much time, the exhibits on your AFEs,
2 were you in charge of preparing these AFEs?

3 A. Yes, I was.

4 Q. And Exhibits 21 through 25, could you give the
5 approximate well costs for the 2nd Bone Spring, 3rd Bone
6 Spring, completed well costs, and Wolfcamp?

7 A. So let's see. Our 2nd Bone Spring, we have
8 about \$6.9 million. The 3rd Bone Spring, we've got
9 \$7 million.

10 Q. And that's accounted for mainly by the deeper
11 depth, right?

12 A. That's right. It's just a little bit deeper.
13 And then on the Wolfcamp, it is \$7-1/2
14 million.

15 Q. Okay. In your opinion, are these costs fair
16 and reasonable and in line with the costs of other wells
17 of these types drilled in this area of southeast
18 New Mexico?

19 A. Yes, they are. And I've got a few comments on
20 this, the first being that near the top of each one of
21 these AFEs, there is a note that says, "This assumes a
22 four-string design." And if you go into the actual AFE,
23 you can see that I accounted for four strings of casing
24 in my costs. So I'm not really sure why there is a
25 question there. We're certainly familiar with the

1 potash and with the -- oh, geez -- the loss zone. And
2 so yeah, we understand that this is a four-string design
3 area. That's always been in our plan.

4 **Q. You're fully aware of the BLM's requirements**
5 **regarding casing and design of wells in the potash area?**

6 A. We are. And I actually have several casing
7 bids that reflect these costs, one of which I had
8 refreshed last week just to make sure that we were still
9 accurate, and we are.

10 The other -- the other point that I'd like
11 to bring up is that in the Wolfcamp well, I believe that
12 Centennial had said that there needed to be a fifth
13 string there because they needed to set an intermediate
14 casing in the 3rd Bone Spring. Well, of the three close
15 Wolfcamp wells to us, the Della 29 Fed 701H and the Moss
16 Fed 4H both set their intermediate at around 5,500 feet,
17 indicating that it's certainly possible to drill
18 Wolfcamp wells without setting a deep intermediate
19 string.

20 **Q. And those wells were successfully completed?**

21 A. Those are successful and good wells. Yes.

22 The other thing I'd like to talk about a
23 little bit is just our completion design. We do have --
24 if we went out and drilled wells today, we do have a
25 completion design. I'm happy to share that. We're

1 looking at 2,000 pounds per foot of sand, 100 mesh, and
2 then we'd be tailing in with 30/50. We'd be looking at,
3 actually, 40 stages, five clusters per stage with six to
4 eight shots per cluster. We don't consider frac design
5 to be very proprietary because you can get most of the
6 details from the New Mexico OCD Web site. And that's,
7 frankly, where we get our details -- our plans from, is
8 from examining -- using statistical analysis to look at
9 the best wells in the area and then going and see what
10 those operators do whenever they frac wells.

11 **Q. So you've looked at completions by EOG, for**
12 **instance?**

13 **A.** We've looked at every -- basically, every
14 completion in the Basin, statistically sorted them using
15 Spotfire and then gone in and looked at the best ones.
16 And EOG and Concho generally rises to the top.

17 **Q. Now, you have a completion plan if you could**
18 **spud the well tomorrow?**

19 **A.** That's right.

20 **Q. Because of this hearing and then the time frame**
21 **for obtaining APDs from the BLM, once approval of**
22 **pooling is granted or the parties enter into a JOA,**
23 **you're looking at quite a number of months before the**
24 **wells will be drilled; is that correct?**

25 **A.** Yes. I'd guess 8 to 12 months.

1 Q. And over the last few years, completion designs
2 have changed substantially and quite rapidly; have they
3 not?

4 A. They really have. Yes.

5 Q. So by the time you start drilling the well,
6 you're going to have to re-review everything to make
7 sure you're doing the best completion design possible?

8 A. Yes. I mean, of course we would review what
9 our plan is, and we'd want to be up to whatever is
10 industry standard at that point.

11 I think the timing issue is something else
12 that came up earlier that I kind of wanted to comment on
13 and that is why we haven't picked up a rig. If you look
14 back at Exhibit 16, which was my first exhibit, you can
15 see that of all those DSUs and development areas, only
16 one is state. That's the only one, and we're still
17 working on a JOA with Cimarex on that. So for us to be
18 able to pick up a rig and run it consistently without
19 having to drop it, we need BLM permits. And so that has
20 been my focus for the last six months, I'd say.

21 And thankfully we just recently got
22 approval for our Big Box DA and our Gavilon DA pads, so
23 we are submitting those APDs as we speak. But that's
24 still probably four to six months out. So we have --
25 yes, we do have State APDs that are approved, but not

1 enough that we feel that we can get started with a rig
2 program.

3 That said, with our recent progress with
4 the BLM, we are hoping to pick up a rig in August, is
5 our tentative plan, which I keep my finger on the pulse
6 of the rig supply, I guess. And I just recently spoke
7 with a couple of different rig companies, and there are
8 rigs available. I'm sure they're more expensive than
9 they used to be, but there are rigs available.

10 Q. And you don't want to just get one rig and then
11 drill a couple of wells and have to drop it and then
12 come back again later?

13 A. That's correct. If we pick up a rig, we're
14 looking at least one year, if not two.

15 Q. Next, could you move on to Exhibits 26 and 27
16 and do an AP cost comparison --

17 A. Sure.

18 Q. -- and then maybe discuss some of the elements
19 of why there is a difference in costs between Centennial
20 and Ascent's AFEs?

21 A. So Exhibit 26 is the Bone Spring D&C and
22 facilities costs. This encompasses both 2nd Bone and
23 3rd Bone, since the costs are pretty similar. You can
24 see there in green what our AFE is coming in for our 2nd
25 Bone. The 3rd Bone is 100,000 more.

1 We went and compiled public information for
2 surrounding operators for well costs and plotted them,
3 and you can see that we are right in line with the
4 average but a bit more, which is accounted for because
5 of the four-string design and casing. That's another
6 400,000 or so.

7 You can see that the AFE that Centennial
8 sent to us is higher than the average.

9 Exhibit 28 is the exact same thing except
10 for the Wolfcamp, and X-Y and A being mixed together.
11 Again, we're right in line but about 300,000 more than
12 the average. You can see EOG is, you know, ahead of the
13 class at 6.5 million. And, again, the AFE that we
14 received seemed high.

15 Whenever I go through and do a comparison
16 between our AFEs and the ones that were sent to us by
17 Centennial, the obvious case on the Wolfcamp side is
18 they have an extra string of casing. The other big cost
19 that jumps out is their facilities design, where they're
20 up near a million dollars and we're more around 500,000
21 for our facilities. And whenever you look at what
22 surrounding operators are reporting to be spending on
23 their facilities, they're looking at 250- to 400,000.
24 We thought we were being conservative with 500,000,
25 especially considering the ramifications of the

1 four-string -- I'm sorry -- the four-stream takeaway
2 that we're looking at with our midstream. I think
3 that'll bring -- that'll drive down our facilities
4 costs.

5 Q. And so the facilities costs in your AFE is, you
6 believe, exceedingly reasonable?

7 A. I think so.

8 Q. Based upon this information, is it your
9 opinion, having drilled a number of horizontal wells,
10 that you can drill and complete your wells at the cost
11 range set forth in your AFEs?

12 A. Yes, I do.

13 Q. And do you think Centennial's AFEs are just too
14 damn high?

15 A. I think so.

16 Q. Were Exhibits 16 and 27, excepting the
17 nonexistent 19 and 20, prepared by you or under your
18 supervision?

19 A. Yes, they were.

20 Q. And in your opinion, is the granting of
21 Ascent's applications and the denial of Centennial's
22 applications in the interest of conservation and the
23 prevention of waste?

24 A. Yes, I do.

25 Q. And when you look at waste, are you looking at

1 **economic waste besides wasted resources?**

2 A. Yes, and surface disturbance waste.

3 **Q. Thank you.**

4 MR. BRUCE: Mr. Examiner, I move the
5 admission of Exhibits 16 through 18 and 21 through 27.

6 MR. FELDEWERT: No objection.

7 EXAMINER JONES: Exhibits 16, 17 and 18 and
8 21 through 27 for Ascent are admitted.

9 (Ascent Energy, LLC Exhibit Numbers 16
10 through 18 and 21 through 27 are offered
11 and admitted into evidence.)

12 CROSS-EXAMINATION

13 BY MR. FELDEWERT:

14 **Q. Mr. Robins, your Exhibit 16 or Exhibit 17,**
15 **those describe your takeaway options; is that right?**

16 A. That's right.

17 **Q. Okay. Those are -- at this point, that's still**
18 **theoretical, correct, because you don't have any**
19 **agreements?**

20 A. We're in the middle of negotiating an
21 agreement.

22 **Q. Okay. And isn't it true that you've been in**
23 **negotiations since July of 2017?**

24 A. We have been in negotiations -- well, we've
25 been talking to this company for quite a while.

1 Q. I think in previous -- one of your witnesses
2 testified at the last hearing that you had been in
3 negotiations on these takeaway requirements since July
4 of 2017; is that correct?

5 A. That sounds about right.

6 Q. And you still don't have any agreements?

7 A. No.

8 Q. Okay.

9 A. By our choice.

10 Q. You said you have completion plans now that you
11 have gleaned from looking at files and records of what
12 other people have done?

13 A. That's correct.

14 Q. But you don't have any frac crews that you have
15 utilized, correct?

16 A. Well, we haven't drilled any wells.

17 Q. Well, if you do commence drilling your wells,
18 you have to acquire a frac crew and then implement a
19 plan to be put together by others? Is that --

20 A. No. The plan would be designed by us. It
21 would be based off of other successful plans.

22 Q. But you haven't put that plan into effect?

23 A. No. We don't have a rig.

24 Q. Now, you were here for the testimony about the
25 fact that the location down in the southern part of

1 Section 19, that the company, Centennial, can drill toe
2 up in these zones?

3 A. I did hear that.

4 Q. Okay. And do you agree that that provides an
5 advantage for extending the life of the well?

6 A. I would disagree with that. On these wells is
7 a very, very shallow dip. It's like a 2 percent
8 incline. So with it being that gentle of an incline,
9 no, I don't think it'll make a significant difference.

10 Q. And you don't think that that'll -- you don't
11 think that that incline, allowing the liquids to
12 accumulate in the heel, is going to extend the life of
13 the well or increase the ability of the rods and other
14 pumps to be utilized?

15 A. No.

16 Q. Huh. Okay.

17 Do you have wellbore diagrams that reflect
18 what's reflected on your AFEs?

19 A. We do. I did not bring them today.

20 Q. Why not?

21 A. I don't know. We -- Jim and I didn't discuss
22 bringing them.

23 Q. Your AFEs do not include a five-string design
24 for the Wolfcamp wells?

25 A. No, they do not.

1 Q. And you don't think that there is any risk
2 associated with that? Is that your statement?

3 A. I mean, there is always risk when you're
4 drilling a well. Certainly, there are people that are
5 more conservative and are setting a deeper intermediate,
6 but whenever I look at the two most successful Wolfcamp
7 wells that are closest to this area, they did not. And
8 so I would not choose to do that, no.

9 Q. So having never drilled any wells in this area
10 of New Mexico, your plan right now is not to use five
11 strings through the Wolfcamp?

12 A. That's right.

13 Q. Okay. Exhibits 26 and 27, if I'm understanding
14 them, those reflect D&C costs; is that right?

15 A. And facilities.

16 Q. This says D&C.

17 A. Right. They're D&C and facilities.

18 Q. D&C normally means drilling and completion.

19 A. D&C means drilling and completion, but I'm
20 telling you that they are drilling and completion and
21 facilities.

22 Q. And these numbers that you have utilized here,
23 is this across the state of New Mexico?

24 A. It is.

25 Q. So it's not for this unique area where you have

1 the potash concerns in the Capitan Reef?

2 A. No.

3 Q. And these costs do not, for example, reflect
4 the BLM casing requirements?

5 A. Our costs do, yes. That's why they are higher
6 than others.

7 Q. But this particular graph that you've utilized
8 here does not include the BLM casing requirements?

9 A. No. There are not very many wells drilled in
10 that area.

11 Q. And it doesn't include the costs associated
12 with the extra strings for the Wolfcamp pressures?

13 A. Well, we're not planning on using that. And
14 EOG and Concho don't, so no.

15 Q. And I believe you say this is -- and if we go
16 by the title on this and if we go by where you got it,
17 from which is drilling and completion, this would not
18 appear to reflect the facilities necessary to handle
19 flowback, takeaway of oil and gas?

20 A. No. These costs do reflect.

21 Q. What do you get that from, Mr. Robins?

22 A. Well, they're from company-investor
23 presentations.

24 Q. Uh-huh.

25 A. Yes.

1 Q. And it says, "Average excludes Centennial's
2 data," right?

3 A. That's right. It wouldn't many sense to use
4 proposed AFEs --

5 Q. And it says "Delaware D&C Cost." And you're
6 saying that because of sources, company-investor
7 presentations, that it means something more than just
8 drilling and completion costs? Is that what you're
9 saying?

10 A. I am saying that they are drilling and
11 completion and facilities costs because I'm the one who
12 gathered the data and I saw where they came from, and
13 they all say drilling and completion and facilities.

14 Q. Do you have backup documents for this
15 investment presentation?

16 A. No, but I can certainly provide them.

17 Q. Would it include the cost for air emissions
18 controls?

19 A. That is rolled into facilities cost. Yes.

20 Q. If I go to your AFE, where is your line item
21 for your flowback cost?

22 A. That would be about three-quarters of the way
23 down the page, on the front page, under "Intangible
24 Completion Costs." You can see it at 8306.224,
25 "Flowback Testing, \$76,500."

1 Q. 86 -- I'm sorry -- 224?

2 A. 224.

3 Q. Flowback and testing?

4 A. That's correct.

5 Q. And you have in there \$75,000?

6 A. 76,500. That's right.

7 Q. That's your -- does that include your gas
8 takeaway and water takeaway costs?

9 A. Yes.

10 Q. 75?

11 A. Yes. That's from a bid.

12 Q. Huh. Okay.

13 A. That assumes 30 days of flowback. All of my
14 major costs are from bids from service companies.

15 Q. Do you have a line item for air emission
16 requirements?

17 A. No. That's included in the facilities.

18 Q. And you mention that yours is -- what is
19 Centennial's line items for these facilities costs?

20 A. I don't have their --

21 Q. They're higher, though, right?

22 A. Oh, sure. Yes. They're about a million
23 dollars for their facilities costs.

24 Q. And yours is 75,000?

25 A. About 500,000. Oh, you said facilities. Are

1 you talking flowback?

2 Q. Well, facilities. I'm sorry. Let's go with
3 facilities.

4 A. Facilities, they're about a million. We're
5 about 500,000.

6 Q. Now, have you participated in any wells as a
7 working interest owner drilled here in New Mexico?

8 A. No.

9 Q. So you haven't received any AFEs that you've
10 signed off on and anticipated in?

11 A. We have received AFEs, yes, from Matador.

12 Q. Okay. And have you participated in wells under
13 their AFEs?

14 A. Not yet.

15 Q. Any other company that you received AFEs from?

16 A. I can't recall.

17 MR. FELDEWERT: Okay. That's all the
18 questions I have.

19 EXAMINER JONES: Mr. Brooks?

20 CROSS-EXAMINATION

21 BY EXAMINER BROOKS:

22 Q. On this Wolfcamp issue, have you analyzed
23 pressures and subsurface conditions that exist in the
24 Wolfcamp in this area and come to independent
25 conclusions about the appropriate casing program?

1 A. I have.

2 Q. And based on that analysis, you believe that an
3 additional string is not necessary?

4 A. That's correct.

5 Q. And I believe the drilling engineer this
6 morning testified that the pressures that were present
7 in the formation were problematic if you did not have an
8 additional string. You disagree with that?

9 A. I think that there are probably areas in the
10 Delaware that you do need the additional string, but if
11 you look at the two most -- the two closest Wolfcamp
12 wells to us, they did not need them. There is no reason
13 to think that our pressures are significantly different.

14 Q. When you said in the Delaware, you mean the
15 Delaware Basin, not the Delaware Formation?

16 A. That's right. That's right, the Delaware
17 Basin. Sorry.

18 Q. Thank you.

19 CROSS-EXAMINATION

20 BY EXAMINER JONES:

21 Q. Do you have electricity up that mesa top, or
22 are you going to have to pay for a substation?

23 A. There is not, but there is electricity that
24 runs on -- that green line is right along a lease road,
25 and so there is a power line along there.

1 Q. Okay. Okay. If your -- if you do -- if the
2 BLM does insist on another string of pipe -- what I mean
3 is salt protection, Capitan protection -- how much more
4 would your AFEs be?

5 A. Well, we are -- this does assume the salt, the
6 potash protection and the Capitan protection.

7 Q. So are you assuming the surface pipe would be
8 through the salt?

9 A. The surface pipe is around 1,000 feet. The
10 first intermediate would be set at around 3,000 feet.

11 Q. Okay.

12 A. And the second intermediate, we would set at
13 around 5,500 feet. And that's -- the second
14 intermediate is the Capitan protection.

15 Q. Okay. Well, I just -- you know, on your AFE,
16 it says -- it says -- the one that says "2nd Bone
17 Spring," it says, "Conductor of surface pipe,
18 intermediate and the liner."

19 A. Right. The liner, that's an artifact of our
20 AFE form. That would be our second intermediate. And
21 then our production casing is under "Intangible
22 Completion Costs."

23 Q. Oh, okay.

24 A. Since it's officially part of the completion.

25 Q. Okay. So as far as these well spacings go, --

1 you're the engineer. You also do all the -- you cover
2 all aspects of engineering for the company?

3 A. I don't do reservoir, but I'm fairly familiar
4 with it.

5 Q. Okay. But you're proposing a well in the --
6 pretty close to the center of the east half, is that
7 correct, one of the Bone Spring wells?

8 A. That sounds right.

9 Q. So -- and you're in favor of this -- the
10 spacing -- the lateral spacing?

11 A. Yes. So the way our wine rack is set up, we
12 think that the 3rd Bone and our Wolfcamp X-Y, we need to
13 have some space between them because there is no frac
14 barrier between them. So that's why we set them up like
15 that.

16 But between the 3rd Bone and our Wolfcamp
17 A, there is a minor frac barrier just above the Wolfcamp
18 A, and then there is enough other barriers due to X-Y
19 that we think that'll give us -- we will not connect
20 with our fracs between the 3rd Bone and the Wolfcamp A.

21 Q. So you guys are seeing these frac barriers, and
22 I -- do you have a dipole sonic or something, a stress
23 log or something through this?

24 A. We do. We have a nearby well that has a full
25 log suite on it.

1 **Q. Okay.**

2 A. And then our VP of completions, he runs a
3 completion -- I'm sorry -- a frac simulation to see --
4 to try to figure out which barriers we think are real
5 and which ones can be fracked through.

6 **Q. Which one would you drill first out here?**

7 A. You know, I don't think it matters because we
8 would be drilling them batch style. So, you know, with
9 the rigs being able to move so easily, we'd drill our
10 surface casing for all three and then go back the other
11 way and drill the intermediate and then go back the
12 other way and drill our other intermediate and then
13 production. And so essentially you'd be drilling them
14 at the same time.

15 **Q. Do you have a different rig for the surface**
16 **pipe than you do for the --**

17 A. We would -- assuming we had time, we would come
18 in and use a surface rig to set our surface casing and
19 possibly our first intermediate.

20 **Q. You don't see the need to drill the deeper --**
21 **deeper well first to do a log?**

22 A. No. We have enough -- we have enough well
23 control in the area that we wouldn't feel -- we probably
24 would. Yeah. We'd probably -- we'd probably do the
25 order so we did the Wolfcamp production first. Now,

1 which one would we spud first, I'm not sure. You'd have
2 to work backwards.

3 Q. Yeah.

4 Do you agree with Mr. Metz about watching
5 these Wolfcamp wells -- surrounding Wolfcamp wells to
6 see if you might add a Wolfcamp A?

7 A. Oh, yeah. I think we feel really good about
8 the A. I think that's very likely. But it's the X-Y in
9 the 3rd that you'd want to frac at the same time.

10 Q. Yeah, because they're close together
11 vertically.

12 A. Exactly. Right.

13 Q. And even though they're across the line there,
14 where people are saying it's higher pressure maybe --
15 maybe and it's an unconformity, there is no frac barrier
16 there?

17 A. That's right.

18 Q. Okay. That's what everybody keeps saying
19 today. So --

20 And the 2 degrees per mile --

21 What about this business about the 1,000 --
22 the 100 feet? That's going to be proposed and this --
23 this horizontal well proposal rule change is already out
24 there.

25 A. Right.

1 Q. And you guys can look at that. This 100 feet
2 business, that does give you more -- more reservoir
3 rock.

4 A. Right. We would -- if that is approved, we
5 would surely change our directionals. We just didn't
6 think that we would get an approval from Cimarex or
7 Advance to ourselves to get that -- what do you call
8 it -- nonconforming well.

9 Q. Yeah.

10 A. Of course, we would rather drill a longer
11 lateral.

12 Q. Okay. If you did decide to do that, it
13 wouldn't change your surface location, though, would it?

14 A. It would not. No. That's one nice thing about
15 being on the south half of Section 7, is that there is
16 no -- we have plenty of room to land our wells, you
17 know, right across the lease line.

18 Q. What about your AFE? It would change that a
19 little bit, right? You'd have more frac stages, a
20 little bit more length to the well?

21 A. It would. It would add a little bit. But
22 once -- the lateral drilling is your cheapest drilling.
23 So, you know, surrounding operators in the 2nd Bone
24 Spring are drilling 2,000 feet a day. So adding 300
25 feet, 400 feet is just not that -- wouldn't make that

1 big of a difference.

2 Q. How do you keep your drilling costs down? Is
3 it negotiating with these drilling companies as far as
4 getting a good contract, or is it -- you got pipe -- I
5 mean, how is your pipe cost going to be between now and
6 six or eight months from now when the tariffs happen or
7 whatever?

8 A. What I'm seeing is that vendor costs are going
9 up. Their proposals to me have gone up, but people are
10 getting better at drilling, and so the days are coming
11 down.

12 Q. Do you do a day contract or a --

13 A. With the rig?

14 Q. -- or a footage contract?

15 A. It would be a day contract.

16 Q. Day contract.

17 Okay. So you have to have somebody out
18 there monitoring it pretty close?

19 A. That's correct.

20 Q. Now, who would sit on your frac jobs? Who
21 would be the person deciding when to cut -- when to cut
22 pressure and everything?

23 A. Well, our VP of completions, he's very
24 hands-on, so he would go out for our first few fracs for
25 sure. And he has a few consultants that he's worked

1 with quite a bit in the past, including our last
2 company, and that he trusts and that have -- you know,
3 our last company, we drilled two Eagle Ford -- two Eagle
4 Ford wells in east Texas, and those frac designs were
5 very similar to what these would be, except at a higher
6 pressure.

7 Q. Okay. And then once you frac your wells --
8 what's the latest thinking on flowback, and do you
9 flowback immediately or --

10 A. That's a good question, because you've got EOG
11 that's ripping open these wells and not even increasing
12 the tubing, and then you've Concho that kind of babies
13 them. I think they're hoping that they're looking at a
14 better long-term EUR. I think we'd be more on the
15 babying-them side.

16 Q. Are you looking at slickwater fracs like they
17 were talking about?

18 A. Yes. Yes. It would be slickwater.

19 Q. So a little bit of heavier -- bigger sand to
20 tail in with and --

21 A. That's right. We'd frac with 100 mesh and then
22 tail in with 30/50.

23 Q. Hopefully it wouldn't come back too much.

24 A. Right, which is another reason not to rip them
25 open. But then again, EOG has had a lot of success,

1 so -- you see these 4,000-barrel-a-day wells, and it's
2 enticing. But, you know, I don't think -- I don't think
3 that's the way we would go. We would be a little more
4 careful with it.

5 **Q. Okay.**

6 EXAMINER JONES: Any more questions for
7 this witness?

8 MR. FELDEWERT: No, sir.

9 MR. BRUCE: (Indicating.)

10 EXAMINER JONES: Thank you, Mr. Robins.
11 Closing statements?

12 MR. BRUCE: Well, I can.

13 EXAMINER JONES: You want write it up?

14 MR. BRUCE: I would rather write it because
15 my voice is ready to collapse.

16 EXAMINER BROOKS: I would rather you submit
17 them in writing also.

18 EXAMINER JONES: Mr. Feldewert?

19 MR. FELDEWERT: I'm outvoted. I think
20 written closing statements is fine with me. Jim and I
21 can work out a time schedule.

22 EXAMINER BROOKS: I can't blame
23 Mr. Feldewert for being on the other side of that,
24 rhetorical abilities, but it's awfully late and --

25 EXAMINER JONES: Somebody is sucking on

1 something over there to keep his voice going.

2 MR. BRUCE: Halls cough drops.

3 EXAMINER BROOKS: If we have closing
4 statements this afternoon, I might doze in the middle of
5 them, and that would not be good.

6 MR. FELDEWERT: I'm fine with written
7 statements. Maybe Jim and I can work on a schedule.

8 MR. BRUCE: We'll just -- yeah.

9 EXAMINER JONES: Okay. Ms. Bradfute, any
10 last words, or do you want to say something in a closing
11 statement, too?

12 MS. BRADFUTE: I don't believe that Cimarex
13 needs to do a closing statement. I think we reserved
14 our rights throughout the hearing.

15 EXAMINER JONES: Okay. Thank you very
16 much.

17 MR. FELDEWERT: Thank you for your time.

18 EXAMINER BROOKS: Oh, I have a question.
19 This says "Exhibit A," and we weren't using letters.

20 MR. BRUCE: It was introduced and accepted
21 into the record.

22 EXAMINER JONES: Yeah, it was.

23 The record will reflect that all cases in
24 this docket are taken under advisement. Or do I need to
25 read every one of them?

1 Okay. Docket's closed.
2 (Case Numbers 15992, 15993, 15994, 15995,
3 15996, 15988, 16016, 16017 and 16018
4 conclude, 5:46 p.m.)
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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.

20 DATED THIS 8th day of April 2018.

21

22 MARY C. HANKINS, CCR, RPR
23 Certified Court Reporter
24 New Mexico CCR No. 20
Date of CCR Expiration: 12/31/2018
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