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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:

ORIGINAL

CASE 15412

APPLICATION OF DEVON ENERGY PRODUCTION
COMPANY, L.P., FOR POOL CONTRACTION, POOL
CREATION, AND SPECIAL POOL RULES, EDDY COUNTY,
NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

December 3, 2015

Santa Fe, New Mexico

BEFORE: MICHAEL McMILLAN, CHIEF EXAMINER
WILLIAM V. JONES, EXAMINER
GABRIEL WADE, LEGAL EXAMINER

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This matter came on for hearing before the
New Mexico Oil Conservation Division, Michael McMILLAN,
Chief Examiner, William V. Jones, Examiner, and Gabriel
Wade, Legal Examiner, on December 3, 2015, 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: ELLEN H. ALLANIC
NEW MEXICO CCR 100
CALIFORNIA CSR 8670
PAUL BACA COURT REPORTERS
500 Fourth Street, NW
Suite 105
Albuquerque, New Mexico 87102

1 A P P E A R A N C E S

2 For the Applicant:

3 JAMES G. BRUCE, ESQ.
 4 P.O. Box 1056
 5 Santa Fe, New Mexico 87504
 (505)982-2043
 jamesbruc@aol.com

6

I N D E X

7

8 CASE NUMBER 15412 CALLED

9

10 DEVON ENERGY PRODUCTION COMPANY, L.P.

11

12 CASE-IN-CHIEF:

13 WITNESS JOE HAMMOND

14

	Direct	Redirect	Further
By Mr. Bruce	4		

15

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17 Examiner Jones 15, 19

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19 Examiner McMillan 13

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21 Mr. Wade 18

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23 WITNESS ZACH POLAND

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	Direct	Redirect	Further
By Mr. Bruce	20		

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27 Examiner Jones 28

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31 WITNESS HENRY KONAN

32

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1 (Time noted 8:46 a.m.)

2 EXAMINER McMILLAN: Let's get back on the
3 docket. Let's go ahead and let's get started.

4 I would like to call case No. 15412,
5 Application of Devon Energy Production Company, L.P.,
6 for pool contraction, pool creation, and special pool
7 rules in Eddy County, New Mexico.

8 Call for appearances.

9 MR. BRUCE: Mr. Examiner, Jim Bruce
10 representing the applicant. I have three witnesses.

11 EXAMINER McMILLAN: Any other appearances?

12 (No response

13 EXAMINER McMILLAN: I would like to have the
14 witnesses please be sworn in right now.

15 (WHEREUPON, the presenting witnesses
16 were administered the oath.)

17 MR. BRUCE: Ready.

18 EXAMINER McMILLAN: Please proceed.

19 JOE HAMMOND
20 having been first duly sworn, was examined and testified
21 as follows:

22 DIRECT EXAMINATION

23 BY MR. BRUCE:

24 Q. Would you please state your name and city of
25 residence for the record.

1 A. Joe Hammond, Edmond, Oklahoma.

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

3 A. Devon Energy Corporation in Oklahoma City.

4 Q. Have you previously testified before the
5 Division?

6 A. Yes, I have.

7 Q. And were your credentials as an expert petroleum
8 landman accepted as a matter of record?

9 A. Yes, they were.

10 Q. And are you familiar with the land matters
11 involved in this case?

12 A. Yes, I am.

13 MR. BRUCE: Mr. Examiner, I tender
14 Mr. Hammond as an expert petroleum landman.

15 EXAMINER McMILLAN: So qualified.

16 Q. Briefly, Mr. Hammond, what does Devon seek in
17 this case?

18 A. Devon seeks the creation of a new pool for
19 horizontal Bone Spring development in sections 20, 21,
20 22, and 27, 28, and 29, Township 19 South, Range 29 East
21 in Eddy County.

22 We are asking for 320-acre spacing along with
23 some other special pool rules that will be discussed
24 later in this application.

25 And the pool name that we request is the West

1 Parkway Bone Spring Pool.

2 Q. Are the six sections of land in a unit?

3 A. Yes, they are. It is a state unit that was
4 created back in the 1970s, called the Parkway West Unit.

5 Q. And it is all state land?

6 A. Yes, it is all state land.

7 Q. Why does Devon seek creation of this pool and for
8 the special pool rules?

9 A. We -- Devon has drilled a number of Bone Spring
10 wells in this six-section area. And we plan on drilling
11 additional Bone Spring wells, including infill wells
12 which would otherwise be unorthodox.

13 And by having 320-acre spacing, all interest
14 owners in a 320-acre unit will share in production from
15 three or more wells in a half section of land, thus
16 correlative rights are protected because there will be
17 no unorthodox locations encroaching on offsetting
18 160-acre units.

19 Q. Okay. Now, what is Exhibit 1?

20 A. Exhibit 1 is a plat that was prepared and sent to
21 us by Paul Kautz of the OCD Hobbs Office. And the six
22 sections that are -- that we are talking about today are
23 highlighted in black.

24 And the pools that are represented in this
25 six-section area are called the Scanlon Draw Bone Spring

1 Pool, which covers all of section 20. It also covers
2 the north half and southeast quarter of section 21.

3 And then the southeast -- excuse me -- the
4 southwest quarter of 21 is a different pool. It's
5 called the Rattlesnake Well Bone Spring Gas Pool.

6 Section 22, north half in the southeast quarter
7 is in a pool called the Turkey Tract Bone Spring Pool.
8 And then in the southwest quarter of 22, which is the
9 red, there is no pool associated with that acreage.

10 And then 27, 28, and 29 are all in the Parkway
11 Bone Spring Pool.

12 MR. BRUCE: Mr. Examiner, just so you have
13 it in front of you, this isn't an exhibit, but just a
14 summary of what pools currently cover these six
15 sections.

16 Q. Could you identify Exhibit 2 for the Examiner,
17 Mr. Hammond.

18 A. Exhibit 2 is a land plat which highlights again
19 the six sections. Devon's acreage is highlighted. And
20 the horizontal Bone Springs wells that Devon has drilled
21 in the area are all located on this plat.

22 So these are the wells we drilled. Some of them
23 may be in the completion stage as we speak.

24 Q. And what is Exhibit 3?

25 A. This is a plat, represents future wells planned

1 by Devon, again to be drilled in the Bone Spring.

2 Q. And what is Exhibit 4?

3 A. I guess I kind of went map crazy on this one.

4 This is a combination of the two other plats that
5 I just got through talking about. And I am not sure you
6 need it. But I can't read it, either.

7 Sorry about that.

8 Q. But, Mr. Hammond, when all is said and done, if
9 you are looking at a half section of land, roughly how
10 many wells is Devon planning on having in total, Bone
11 Spring wells in a half section of land?

12 A. Well, we could have up to as many -- in a
13 320-acre unit, we could have as many as nine wells.

14 Q. And these are in multiple Bone Springs --

15 A. We could -- I am not saying we are. I am saying
16 we could have two wells in the First Bone Springs and we
17 could have two wells in the Second Bone Springs and we
18 could have five wells in the Third Bone Springs.

19 Q. And will the technical witnesses explain the
20 development plans later?

21 A. Yes, they will.

22 Q. Now, just for the record, what is the spacing for
23 the existing Bone Spring Pools in the West Parkway Unit?

24 A. Well, the 160-acre spacing is what --

25 Q. Vertical well spacing?

1 A. Forty.

2 Q. Forty acres?

3 A. Yes.

4 Q. And are the Scanlon Draw and Turkey Tract Bone
5 Spring Pools on statewide rules?

6 A. Yes, they are.

7 Q. Does the Parkway Bone Spring Pool have a special
8 GOR?

9 A. It does.

10 Q. And what is that?

11 A. 10,000 to one.

12 Q. And then you already mentioned the Rattlesnake
13 Well Bone Spring Gas Pool is 160-acre spacing for a
14 vertical well?

15 A. It is.

16 Q. Does Devon request that the Scanlon Draw Bone
17 Spring Pool, the Turkey Tract, and the Parkway Bone
18 Spring Pool be contracted so they do not include any
19 acreage in the six section unit?

20 A. Yes. However, we request that the Rattlesnake
21 Well Bone Spring Gas Pool remain in place since it is a
22 gas pool dedicated to an oil well.

23 Q. One well?

24 A. Yes.

25 MR. BRUCE: There's only one well in that

1 pool. And it's the only Bone Spring gas well we know of
2 in this area.

3 Q. And what rules does Devon request for the new
4 pool?

5 A. Well, we request a standard oil spacing and
6 proration unit of 320-acres for horizontal wells and
7 standard oil spacing and proration unit of 40 acres for
8 vertical wells.

9 We request wells to be located no closer than
10 330 feet to the exterior boundary of a standard
11 horizontal well unit, with interior setbacks of 10 feet
12 from a quarter, quarter section line.

13 We request wells to be located no closer than
14 330 feet to the exterior boundary of a standard vertical
15 well unit.

16 We request a special depth bracket allowable of
17 4,500 barrels of oil per day for a standard horizontal
18 320-acre unit well.

19 And then a depth bracket allowable of 230 barrels
20 of oil per day for a standard 40-acre vertical well.

21 Q. Stop there for a second. These vertical pools
22 have different allowables, I believe, because of the
23 initial wells being completed in these pools -- is that
24 correct? -- they were at different depths?

25 A. Yes.

1 Q. So this would just harmonize the vertical well
2 allowable?

3 A. Yes.

4 Q. And do you are request a special GOR?

5 A. Yes. A GOR of 10,000 cubic feet of gas per
6 barrel of oil for vertical and horizontal wells.

7 Q. And, again, will the technical witnesses discuss
8 the need for the pool rules?

9 A. Yes, they will.

10 Q. What is Exhibit 5?

11 A. Exhibit 5 is an entire listing of working
12 interest, override owners, and state royalty owners --
13 state royalty of the owners and of the Parkway West
14 Unit.

15 Q. And what is Exhibit 6?

16 A. Exhibit 6 is a listing of the offsetting owners
17 all the way around the six sections that we've
18 identified here today. These are the offsetting
19 operators.

20 Q. And were the interest owners and the offset
21 operators notified of this application?

22 A. Yes, they were.

23 MR. BRUCE: Mr. Examiner, submitted to you
24 as Exhibit 7 is my affidavit of notice. At the end, I
25 would like this case continued for two weeks because I

1 have not received all the green cards back yet, and so
2 at the next -- if we could continue it at the end of the
3 hearing to the December 17th hearing so that I can
4 verify that all the green cards were --

5 MR. WADE: I had a question on Exhibit 8. I
6 know we are jumping a head a little bit. But that
7 affidavit of notice is not really an affidavit of
8 notice.

9 MR. BRUCE: I haven't received it back. It
10 was published November 9th, and I haven't received the
11 affidavit of publication from the Carlsbad newspaper
12 yet. It will probably be in the mail today.

13 MR. WADE: So you'll get it by that
14 continuance time that you just requested?

15 MR. BRUCE: Yes.

16 MR. WADE: Okay. And while I'm thinking
17 about it, the offset operators, is that within the
18 one-mile boundary --

19 THE WITNESS: Yes.

20 MR. WADE: That is?

21 THE WITNESS: Yes. One mile all the way
22 around the six sections, including diagonals, all the
23 way around.

24 Q. Were Exhibits 1 through 8 either prepared by you
25 or under your supervision or compiled from company

1 business records?

2 A. Yes, they were.

3 Q. And in your opinion, is the granting of this
4 application in the interests of conservation and the
5 prevention of waste?

6 A. Yes.

7 MR. BRUCE: Mr. Examiner, I tender the
8 admission of Exhibits 1 through 8, recognizing that
9 Exhibits 7 and 8 will be supplemented at the next
10 hearing.

11 EXAMINER McMILLAN: Okay. Exhibits 1
12 through 8 may now be accepted as part of the record.

13 (Devon Energy Production Company, LP,
14 Exhibits 1 through 8 were offered and admitted.)

15 MR. BRUCE: And I have no further questions
16 of the witness.

17 EXAMINATION BY EXAMINER McMILLAN

18 EXAMINER McMILLAN: The first question I've
19 got is, you're leaving -- I got two questions. So
20 you're leaving the Rattlesnake alone; why aren't you
21 abolishing it?

22 THE WITNESS: It's a vertical --

23 MR. BRUCE: Is the well still producing,
24 Mr. Hammond?

25 THE WITNESS: It is, yes.

1 EXAMINER McMILLAN: So I am trying to
2 understand. So if you have a horizontal well and that
3 goes through the Rattlesnake, it won't be dedicated to
4 that pool, it will be dedicated to the new pool,
5 correct?

6 THE WITNESS: Yes.

7 EXAMINER McMILLAN: And then a question I
8 got is -- I'm not clear on your setback. Are you asking
9 setbacks from that spacing unit or the boundaries of the
10 unit, because the giant notification (inaudible),
11 doesn't it?

12 MR. BRUCE: That's correct.

13 EXAMINER McMILLAN: So if you got a well
14 2,310 or 2,500 from the north, 330 from the east, and,
15 likewise, 2,310, 330 and then, let's say -- and
16 that's -- going back to that scenario, wouldn't you have
17 to do the diagonal offset? Doesn't it make more sense
18 to say you want the 330s from the unit boundary?

19 MR. BRUCE: I thought that's what was asked
20 for.

21 THE WITNESS: The 320-unit boundary.

22 EXAMINER McMILLAN: Okay. So it's from the
23 unit boundary.

24 MR. BRUCE: Correct.

25 EXAMINER McMILLAN: And also this is going

1 to be a frozen pool, right?

2 MR. BRUCE: Correct.

3 EXAMINER McMILLAN: Okay. Go ahead.

4 EXAMINATION BY EXAMINER JONES

5 EXAMINER JONES: Does each one of these
6 320s, would it have a unit agreement? You would have
7 some kind of an operating agreement or a working
8 interest owners agreement --

9 THE WITNESS: Well, there is currently in
10 place a unit JOA that covers the entire six sections.
11 So as we propose wells, whatever wells we propose,
12 whatever zone it is, we propose it under that 1972 JOA.

13 EXAMINER JONES: And you are the operator of
14 the Parkway?

15 THE WITNESS: We are, the Parkway West Unit.

16 EXAMINER JONES: Okay. So the notice -- the
17 people that were noticed -- because you are proposing
18 these vertical wells be reallocated to the 320; is that
19 correct?

20 THE WITNESS: I don't think that is right.
21 All vertical wells stay on 40 --

22 MR. BRUCE: I think all vertical wells would
23 retain 40-acre spacing other than that one vertical gas
24 well.

25 EXAMINER JONES: What pool will they be, the

1 vertical wells?

2 MR. BRUCE: They would be called the West
3 Parkway Bone Spring Pool.

4 EXAMINER JONES: Okay. So you would have
5 basically statewide rules for the vertical portion --
6 for the vertical wells within that pool. So a new pool
7 for horizontal and vertical wells within the six
8 sections?

9 MR. BRUCE: Correct. Just getting rid of
10 the excess. Rather than dealing with five pools, we're
11 dealing with one plus that one Bone Spring Gas Pool for
12 that one well which -- the completion report on that
13 well back in 2003 shows it produced no oil whatsoever.

14 EXAMINER JONES: Okay. Are you planning on
15 drilling some vertical wells to delineate further?

16 THE WITNESS: No.

17 EXAMINER JONES: So how many exist out there
18 so far?

19 THE WITNESS: I don't have a number with me
20 that I can say.

21 EXAMINER JONES: Is it a small number?

22 THE WITNESS: I would say it is probably a
23 small number, yes.

24 EXAMINER JONES: But you've already drilled
25 quite a few horizontals --

1 THE WITNESS: Yes, we have.

2 EXAMINER JONES: And I guess we can -- you
3 said that one of these pools has a 10,000 to one GOR.
4 Is that -- which one is that? Is it the Scanlon Draw
5 Bone Spring?

6 THE WITNESS: I believe it's the Parkway
7 Bone Spring.

8 EXAMINER JONES: The Parkway. Okay.

9 And the 4,500 barrels of oil per day; you
10 meant that for the 320, didn't you?

11 THE WITNESS: Yes. Did I say --

12 EXAMINER JONES: You said per well.

13 THE WITNESS: I'm sorry. It is per 320-acre
14 unit.

15 EXAMINER JONES: And you are proposing the
16 vertical limits as to top and bottom of the Bone
17 Spring -- I mean of your pool, you will have a type log
18 and all that stuff?

19 THE WITNESS: Yes.

20 EXAMINER JONES: It is not changing; it's
21 standard?

22 THE WITNESS: Yeah, it is the way it is now.

23 EXAMINER JONES: Do you have any protests to
24 this application at all?

25 MR. BRUCE: I haven't made contact with

1 anybody, Mr. Examiner.

2 EXAMINER JONES: We may have questions
3 later.

4 MR. BRUCE: Mr. Examiner, the Parkway Bone
5 Spring Pool, the special pool rules are
6 Order No. R-91.60. And just so you have it, attached is
7 the dedication plat and the completion report for the
8 Parkway Well No. 19, which is the Bone Spring gas well.

9 EXAMINER JONES: Okay. We won't be asking
10 ant questions until the next hearing -- I clarify
11 that -- because you are continuing this?

12 MR. BRUCE: Yes.

13 EXAMINER JONES: Somebody else might show
14 up. It's possible.

15 EXAMINER JONES: I don't have any more
16 questions.

17 EXAMINATION BY MR. WADE

18 MR. WADE: Going back to notice, I don't
19 know if you have the rule in front of you, but the
20 special pool orders rule regarding notice, it looks like
21 you would have to comply with A and B, which is four
22 different separate requirements.

23 MR. BRUCE: Yes.

24 MR. WADE: And the only one I still have a
25 question on is B-2 that says you have to notify Division

1 designated operators of wells within the same formation
2 as the pool and the one-mile outer boundary.

3 The question there is within the same
4 formation, because it is clear you got the same pool.
5 But did you notice everybody within the same formation?

6 MR. BRUCE: Mr. Hammond can confirm this,
7 but it is all operators of all Bone Spring wells within
8 a mile; is that correct?

9 THE WITNESS: It is.

10 MR. WADE: I think that satisfies it.

11 EXAMINER McMILLAN: I have no further
12 questions.

13 FURTHER EXAMINATION BY EXAMINER JONES

14 EXAMINER JONES: Did you -- this is all
15 state, but it is all covered by the Parkway unit, the
16 West Parkway Unit. So the tracts within that are all
17 state?

18 THE WITNESS: Yes, they are.

19 EXAMINER JONES: So within these six square
20 miles, they are all state leases. So did you already do
21 Com agreements?

22 THE WITNESS: We do not.

23 EXAMINER JONES: So it was kind of waiting
24 for this?

25 THE WITNESS: Yes.

1 EXAMINER JONES: Okay. Thank you.

2 THE WITNESS: Yeah, this is a unit agreement
3 so -- and it's been that way for years.

4 MR. BRUCE: And you asked about Bone Spring,
5 and I'm not sure how many Bone Spring wells, but there's
6 been a number of other wells, Mora wells and a number of
7 others.

8 EXAMINER JONES: Okay. You are in your unit
9 so you don't need --

10 THE WITNESS: There is a unit agreement that
11 was done in 1972 which created the unit, and then a
12 separate unit JOA that we operate under.

13 EXAMINER JONES: Okay. Thank you.

14 EXAMINER McMILLAN: No more questions.
15 Thank you.

16 ZACH POLAND
17 having been first duly sworn, was examined and testified
18 as follows:

19 DIRECT EXAMINATION

20 BY MR. BRUCE:

21 Q. Please state your name and city of residence for
22 the record.

23 A. Zach Poland, Guthrie, Oklahoma.

24 Q. And who do you work for?

25 A. I'm a geologist for Devon Energy Corporation.

1 Q. Have you previously testified before the
2 Division?

3 A. I have not.

4 Q. Would you please summarize your educational and
5 employment background for the Examiner.

6 A. I will.

7 I earned my B.S. in geology, with honors, from
8 Wichita State University in 2008. I got my master's in
9 geology from Oklahoma State University in 2011.

10 Since that time, I have been employed at Devon
11 Energy Corporation. I have approximately three years of
12 experience working Lea and Eddy Counties, New Mexico.

13 Q. Are you familiar with the geologic matters
14 involved in this application?

15 A. I am.

16 Q. And does your area of responsibility at Devon
17 include this portion of southeast New Mexico?

18 A. It does.

19 MR. BRUCE: Mr. Examiner, I tender
20 Mr. Poland as an expert petroleum geologist.

21 EXAMINER McMILLAN: So qualified.

22 Q. Mr. Poland, first of all, the wells being -- what
23 Bone Spring zones are being tested at this point or are
24 being planned at this point for wells in the unit?

25 A. In the near future?

1 Q. What wells have be drilled -- what zones have
2 been tested to date and what zones do you in addition
3 plan on testing?

4 A. To date, we've drilled the First Bone Spring
5 Sandstone, the Second Bone Spring Sandstone, based on
6 160-acre spacings, almost over the entire six sections
7 that we are talking about here.

8 In the last year, year 2015, we have started to
9 drill Third Bone Spring Sandstone wells.

10 Q. Would you turn to your exhibits, and without too
11 much interruption from me, would you just run down the
12 first several exhibits which pertain to the various
13 Bone Spring zones and explain to the Examiner what they
14 show.

15 A. Okay. Starting with Exhibit 9 -- I'll just kind
16 of explain what is going on with the maps right now.

17 So Exhibit 9 is the six sections that were --
18 that we are talking about located in 19 South, 29 East
19 in the Parkway West Unit. This is a structure map on
20 the top of the First Bone Spring that's in subC depth.

21 The blue wells, highlighted, are existing First
22 Bone Spring Sandstone horizontal wells. And then the
23 red numbers is just a posted total depth of each well.
24 And then the yellow and greens are Devon leasehold,
25 basically.

1 So you can see this is a 100 feet subC contour
2 interval. The dip is more or less northwest to
3 southeast across the area, relatively uniform dips.

4 Moving on to Exhibit 10, Exhibit 10 is a gross
5 isopach thickness of the First Bone Spring Sandstone
6 over those areas. Again the blue wells are the existing
7 First Bone Spring horizontal wells.

8 The takeaway here is that the First Bone Spring
9 Sandstone is considered to be continuous and generally
10 uniform across the unit.

11 So moving to Exhibit 11, again, that is a
12 structure map on the top of the Second Bone Spring
13 Sandstone, contoured on 100 feet subC contour interval.
14 The blue wells on this map are existing Second Bone
15 Spring Sandstone wells.

16 Again, you can see most of the area is developed
17 on 160-acre spacing in the Second Bone Spring as well.
18 Dips match the First Bone Spring Sandstone, more or
19 less, northwest to southeast.

20 Exhibit 12 is a gross Second Bone Spring
21 Sandstone isopach over the area. Again, you can see
22 that it's pretty continuous or it is continuous and
23 fairly uniform across the unit.

24 Exhibit 13, we are moving to the Third Bone
25 Spring Sandstone now. This is a structure map on the

1 top of the Third Bone Spring Sandstone. The blue wells
2 as shown on the map are existing Third Bone Spring
3 Sandstone horizontals. So this is where a lot of our
4 activity will be focused on in the future.

5 You can see that we have just started to develop
6 the Third Bone Spring Sandstone in this area. Dips,
7 northwest to southeast, pretty uniform. There's not a
8 lot of Third Bone Spring penetrations in here because it
9 is deeper. So that's kind of what is driving kind of
10 the sparsity of data on the map.

11 Exhibit 14 is a gross isopach thickness on the
12 Third Bone Spring Sandstone. The gross interval of the
13 Third Bone Spring is quite a bit thicker than the First
14 and Second in the area. And that is why -- that is one
15 of the reasons why Devon Energy considers it to be a
16 zone that we can stagger laterals in and drill more
17 wells.

18 Q. Internally, does Devon split up the Third Bone
19 Spring into several zones?

20 A. We do. We generally consider it to be about
21 three different units.

22 Q. And is Devon considering drilling -- not just
23 only looking at infill wells, but wells to different --
24 within a 320-acre unit, drilling additional wells to
25 different Third Bone Spring intervals?

1 A. Yes. So if you move to Exhibit 15, so this is a
2 cross section across the area. The location of the
3 cross section is shown in the lower right corner, A to A
4 Prime. The logs, the log data is shaded based on gamma
5 ray. In general, the carbonates, the limestones, and
6 dolomites show up as blues and purples, and the
7 sandstones are generally yellows or browns.

8 So you can see the First Bone Spring interval --
9 if you look, there's a blue kind of horizontal there.
10 That is the general, you know, landing point of our
11 First Bone Spring Sandstone horizontal wells.

12 Then you move down a little deeper, marked with
13 the 2BSS S top, that is the top of the Second Bone
14 Spring Sandstone. And, again, this is a kind of a
15 schematic. And we are showing, you know, the Second
16 Bone Spring horizontal landing points.

17 And if you move to the Third Bone Spring, down at
18 the bottom of the cross section -- I apologize. It's
19 probably pretty small -- but you can see the gross
20 thickness of the Third Bone Spring is almost double the
21 First and Second. And that is illustrated on this cross
22 section with the green and purple, is kind of our
23 development plan, where we're staggering laterals within
24 the Third Bone Spring Sand, and an upper and a lower
25 landing point in the Third Bone Spring Sandstone.

1 Q. Which is why there might be five or so wells in
2 the Third Bone Spring --

3 A. Right.

4 Q. -- in a 320-acre unit?

5 A. Right.

6 So right now our plan moving forward is to
7 stagger these wells, you know, for example, to drill a
8 lower well and then move over one spacing unit and drill
9 an upper and vice versa, and kind of move across this
10 section in that form.

11 Q. Were Exhibits 9 through 15 prepared by you or
12 under your supervision?

13 A. They were.

14 Q. And in your opinion, is the granting of this
15 application in the interests of conservation and the
16 prevention of waste?

17 A. It is.

18 MR. BRUCE: Mr. Examiner, I move the
19 admission of Exhibits 9 through 15.

20 EXAMINER McMILLAN: Exhibits 9 through 15
21 may now be accepted as part of the record.

22 (Devon Energy Production Company, LP,
23 Exhibits 9 through 15 were offered and admitted.)

24 EXAMINATION BY EXAMINER McMILLAN

25 EXAMINER McMILLAN: The question I got is

1 for your defining interval, is that going to be the same
2 as your unit agreement?

3 MR. BRUCE: Mr. Examiner, the West
4 Parkway -- the Parkway West Unit covers all depths. But
5 this pool would cover the entire Bone Spring interval.

6 EXAMINER McMILLAN: Okay. But will that
7 interval be the same as what's in the unit agreement?

8 MR. BRUCE: Yes. It is fully covered by the
9 unit agreement; that interval, yes.

10 EXAMINER McMILLAN: I just wanted for
11 clarity to ask that.

12 And I don't know if you are the correct
13 person, but are any of the existing wells producing
14 above the allowable?

15 THE WITNESS: Today, I would say -- are we
16 talking about a single well?

17 EXAMINER McMILLAN: I am saying per spacing
18 unit, are they above the allowables --

19 MR. BRUCE: We will have an engineer who can
20 answer --

21 EXAMINER McMILLAN: Okay. I am curious,
22 which would have the greatest reserves, the First,
23 Second or --

24 THE WITNESS: I would say the Third. I
25 would consider the Third to have the most reserves,

1 because of the greater gross thickness and -- you know,
2 that's what is driving a lot of the reserves.

3 EXAMINER McMILLAN: I don't have any further
4 questions. Please proceed.

5 EXAMINATION BY EXAMINER JONES

6 EXAMINER JONES: The Third is thicker than I
7 guess -- in places thicker than the Second.

8 THE WITNESS: I would say over this unit it
9 is thicker than the Second by a large margin.

10 EXAMINER JONES: Is that why you would drill
11 maybe three wells per -- the 320 in the Third Bone
12 Spring, because it's thicker? In other words, would you
13 stagger the center well? Would you go up with it or --

14 THE WITNESS: In the 320, the ideal
15 development plan would be three wells in the lower Third
16 Bone Spring target, and then two wells in the upper
17 Third Bone Spring target, for a potential of five wells
18 per 320.

19 EXAMINER JONES: But your Third is maybe
20 250 feet thick, so would you target the exact same
21 interval in the Third Bone Spring with those three wells
22 vertically?

23 THE WITNESS: With the five wells, we would
24 target two different landing targets. Does that answer
25 your question for you?

1 EXAMINER JONES: Actually, I was kind of
2 interested in the Third Bone Spring Sand, the vertical
3 intervals you would target with those three wells you
4 would drill in those.

5 THE WITNESS: Are you asking what is the
6 thickness of the lower target specifically?

7 EXAMINER JONES: Would you land those wells
8 at the same depth?

9 THE WITNESS: Yes. Roughly, the same
10 stratigraphic interval within that lower sand.

11 EXAMINER JONES: Okay.

12 What is different about this than other
13 areas? Why are you concentrating here? Why is Devon
14 concentrating in these? I know the ownership is there
15 with the unit already established, but is there any
16 geologic reason why you need to concentrate right here?

17 THE WITNESS: In the Third Bone Spring Sand?

18 EXAMINER JONES: In this geographic area of
19 Eddy County.

20 THE WITNESS: Well, we have drilled a
21 couple -- the initial results on the first Third Bone
22 Spring Wells that we have drilled in section 20, and,
23 you know, and 22 have been pretty strong.

24 EXAMINER JONES: Okay.

25 THE WITNESS: So right now, obviously, we

1 are focused on best rate of return. And this kind of
2 fits the bill in the area.

3 EXAMINER JONES: So you are kind of higher
4 on structure on 20 than you are in 27 in a sense.

5 But is that affecting anything, the
6 structure? Have you seen any change in --

7 THE WITNESS: I would not consider this to
8 be a conventional-type play and, therefore, I personally
9 don't believe that structure plays much of a role in
10 productivity.

11 EXAMINER JONES: But you are drilling them
12 east, west; is that correct?

13 THE WITNESS: Right. I mean, we have
14 generally focused our drilling east, west, unless we
15 can't get a surface location or something like that,
16 just because, in general, it is perpendicular to sand
17 trend, depositional trend and, also, we have indications
18 that, you know, maximum -- it's closer to be
19 perpendicular to maximum horizontal stress as well.

20 EXAMINER JONES: Is there any stratigraphy
21 issues here? It looks like on your Second Bone Spring
22 on the -- on the second well from the right on your
23 cross section that it's portioning upward; is that
24 right?

25 THE WITNESS: Right.

1 EXAMINER JONES: Is that in the nature of
2 the deposition of these sands?

3 THE WITNESS: That's pretty normal. If you
4 think of these things as being turbinate-type sand
5 deposits, you've got progradation or switching of fan
6 lobes. So you start out shaley and then you move the
7 fan over and then you start dumping sand into the area.

8 EXAMINER JONES: Okay. That's interesting.
9 I should have known that, but it is nice to hear you say
10 it. Mike, he already knows all this stuff.

11 Do you know anything about drainage on these
12 wells? Do you have anything geologically that you would
13 say that they would drain a big area? Is there
14 fractures? Is it matrix-controlled or
15 fracture-controlled?

16 THE WITNESS: If you are asking me
17 personally, I would say that natural open fractures,
18 probably a very minimal-type control. I would say most
19 of it is probably matrix-driven porosity.

20 EXAMINER JONES: But you create the
21 artificial fractures with the fracture --

22 THE WITNESS: Right, right.

23 EXAMINER JONES: But you said the stress,
24 the way the deposition is that you may have some sort of
25 direction of fractures. So that would be north, south;

1 is that correct?

2 THE WITNESS: It is generally oblique,
3 so it's 45 degrees. You know, it's oblique to straight
4 north, south, straight east, west.

5 EXAMINER JONES: That is exactly the worst
6 thing to hear. That is the hardest one to get pumped.
7 So you are saying northeast to southwest?

8 THE WITNESS: Yes.

9 EXAMINER JONES: Okay.

10 THE WITNESS: Well, northwest to southeast,
11 I believe.

12 EXAMINER JONES: Northwest to southeast?

13 THE WITNESS: Yes. It's kind of going --
14 maximum horizontal stress kind of rotates around
15 the basin, so it's generally, if I recall right,
16 northwest to southeast.

17 EXAMINER JONES: Okay. Do you have any FMI
18 logs, any dipole sonics or anything that shows you what
19 the stress direction is?

20 THE WITNESS: I don't know if we have any in
21 this six-section area. I can't speak to that off the
22 top of my head.

23 But we've definitely done basin-wide FMI and
24 dipole sonic type, sonic scanner-type logging to get a
25 handle on, you know, maximum horizontal stress.

1 EXAMINER JONES: So you do have some
2 somewhere --

3 THE WITNESS: Right.

4 EXAMINER JONES: It's a big focus area for
5 Devon -- is that correct? -- the Permian Basin?

6 THE WITNESS: Yes.

7 EXAMINER JONES: That vertical well, with
8 the gas in the Bone Spring, it doesn't seem like that
9 one is relatively high on structure. Can you talk about
10 it a little bit? Where is it completed? Is it in the
11 Second Bone Spring?

12 THE WITNESS: I can't -- off the top of my
13 head -- which well are we talking about?

14 EXAMINER JONES: It's No. 19, Parkway Bone
15 Spring No. 19. It is K of 21. And it looks like, from
16 what you guys gave me here, that the perms are 68- to
17 6,900 feet. So that would put it -- that would put
18 it way up in the --

19 THE WITNESS: If you are just telling me
20 what the depths of the perforations are, I would be
21 convinced that that's in the First Bone Spring
22 carbonate. So it would be different than what we are
23 targeting our horizontal wells in with the sandstones.

24 EXAMINER JONES: Okay.

25 Are you targeting the sands because it is

1 easier to drill in the sands and get your frac off or --
2 you're recovering something with carbonates, aren't you?

3 THE WITNESS: There's a lot of vertical
4 production in the carbonates historically. To my
5 knowledge, not a lot has been tried horizontally in the
6 carbonates. That seems to be less continuous, less
7 unconventional, if you will, and more complicated.

8 So we've kind of chose to focus at this
9 point in time on the sandstones, I guess.

10 EXAMINER JONES: So is this a
11 stratigraphic --

12 THE WITNESS: Right. A lot of those are
13 dolomite-debris flows within the limestone intervals.

14 EXAMINER JONES: Thanks a lot.

15 MR. WADE: I definitely have no questions.

16 EXAMINER McMILLAN: Thank you very much.

17 HENRY KONAN
18 having been first duly sworn, was examined and testified
19 as follows:

20 DIRECT EXAMINATION

21 BY MR. BRUCE:

22 Q. Would you please state your name and city of
23 residence for the record.

24 A. My name is Henry Konan and I live in
25 Edmond/Oklahoma City.

1 Q. And would you spell your last name for the
2 Examiners.

3 A. Konan is K-o-n-a-n.

4 Q. Have you previously testified before the
5 Division?

6 A. No, I have not.

7 Q. Would you please summarize your educational and
8 employment background for the Examiners.

9 A. I have a bachelor degree in petroleum engineering
10 from the University of Tulsa. I graduated in 2003. And
11 since then I have been working as a reservoir engineer
12 for various companies. So I have over ten years of
13 experience in reservoir engineering.

14 Q. Does your area of responsibility at Devon include
15 this portion of southeast New Mexico?

16 A. Yes, it does.

17 Q. And are you familiar with the reservoir
18 engineering matters pertaining to this application?

19 A. Yes, I am.

20 MR. BRUCE: Mr. Examiner, I tender Mr. Konan
21 as an expert reservoir engineer.

22 EXAMINER McMILLAN: So qualified.

23 Q. Mr. Konan, could you identify Exhibit 16 for the
24 Examiner. And why don't you just run through it and
25 discuss what Devon is seeking with respect to allowables

1 and such, and why?

2 A. Okay.

3 Exhibit 16 is a justification for why we want to
4 drill ten well in the Third Bone Spring; some of the
5 justification regarding stagger lateral and also
6 increased spacing.

7 So if you want to go over it. Here on page 2 is
8 a map locator of the area concerned here, from section
9 20 to section 27, including in this section was the
10 existing First and Second Bone Spring producers.

11 Page 3 is an overview of what the existing rules
12 were and what we are requesting right now. We are
13 requesting a 4,500 barrel per day on a 320-acre unit and
14 a 10,000 cubic feet per barrel in a 320-acre unit, so...

15 Q. And in the third line item, when you say 10 Third
16 Bone Spring wells, you are looking at 10 per section or
17 five per half section; is that correct?

18 A. Yes.

19 Q. And let's discuss, let's move on and discuss
20 pages 4 and 5, not only the zones you are looking at but
21 the wells that have been drilled that give you some data
22 for your allowable increase.

23 A. Okay.

24 So on page 4 you have a log here that kind of
25 identified the different sands that Zach just previously

1 talked about.

2 And we are landing on the F sand and also on the
3 G sand. So your lowest sand that we were targeting, the
4 G sand, we are looking at putting six well per section,
5 so three well per half section.

6 And the F sand is a little thinner. We are
7 looking at putting four wells per section or two wells
8 per half section.

9 Your map to your right here kind of describes a
10 little bit the first initial Third Bone Spring well that
11 already been drilled; in production, three well that
12 Devon drilled that you see, and one well that was
13 drilled by Mewbourne.

14 Page 5 kind of gives you a description of the
15 performance of those wells that have been drilled. So
16 if you look at your initial production, on average in 30
17 days, we're looking at about 850 barrels a day for those
18 three Third Bone Spring wells.

19 Your GOR, as we see, initially increases from
20 1.2 million per barrel to 4 million cubic feet per
21 barrel in six months. So that's just for the Third Bone
22 Spring.

23 That's why we are looking to increase, because of
24 the issue of average production for those wells.

25 Q. Looking at the GOR rate on this particular

1 page.

2 A. Yes.

3 Q. Do you foresee any harm to the reservoir in
4 producing at an increased GOR?

5 A. No, I do not, because that's the normal for the
6 reservoir.

7 Q. What about on page 6, please?

8 A. Page 6, as you can see here, our GOR increase
9 rapidly for the First and the Second Bone Spring. So
10 your GOR you can see as you pass your bubble point, you
11 are going -- you see an increase of over 10 million for
12 the First Bone Spring and close to 10 million for the
13 Second Bone Spring. So we anticipate the Third Bone
14 Spring would be probably the same over the long period
15 of time.

16 Q. And what does page 7 reflect?

17 A. It talks a little bit about why we want to do
18 stagger lateral. We drilled -- the three wells that are
19 producing, the first well, the Longboard here was
20 drilled in the upper sand, the F sand. And the well on
21 the bottom was producing in the lower sand.

22 While we were fracking the well at the bottom
23 side here, the Emerald 9, the one that was producing in
24 the lower sand, we shot in the well that was producing
25 in the upper and tried to observe the pressure build up

1 to see if there's any interference between, you know,
2 the two wells.

3 We also did a traced frac, tried to understand if
4 the sand was going in the upper sand. And the pressure
5 buildup didn't show any indication of disturbance while
6 we were fracking the lower well on the upper. And,
7 also, the traced frac showed -- the frac fluid went to
8 the upper sand but we didn't see any sand going to the
9 upper sand, so we anticipate there's no communication
10 while we frac those two.

11 Page 8 is we used a simulation to kind of
12 understand the production of the wells that are
13 producing in the sand. So this is the history match
14 that we've done on the well that is producing -- one of
15 the well that is producing in the lower sand to
16 anticipate how many well we can put within the section.

17 So what it is is you take all your information
18 from the wells and integrate study from the raw
19 properties, the completion data, and you try to history
20 match the existing production. And once you have that.
21 history match, you try to forecast the well to
22 understand the recovery and do some sensitivity
23 regarding the spacing of the well.

24 So that's kind of the model that we -- that we
25 apply to identify -- I mean, how many well we can put

1 within a section.

2 And page 9, that's the history match that we did
3 on one Third Bone Spring well that producing. So we can
4 see we have a pretty good match here with your rates and
5 also your pressure. So that kind of give us some
6 confidence to kind of forecast this well and understand
7 the recovery of that well.

8 One thing, at one point here, the SRV, after we
9 fracked this well, was less than 80 acre. So your
10 property that you -- once you get that history match
11 here show your SRV, your (incomprehensible) of being
12 less than 80 acre on this well here. So that can also
13 give us some confidence of putting more wells in this
14 section.

15 Once we get the history match, we want to also
16 kind of combine into an economic package to see what
17 going to give us the most -- the better MPV and the rate
18 of return while we recover more reserve.

19 And if you look at the two graph here, it showed
20 six well per section, and this is where you see the
21 hump. And that is why we kind of determined for the
22 lowest landing zone, six well per section was the
23 optimum based on NPV.

24 Q. If you could turn to page 11 and summarize the
25 engineering study.

1 A. So page 11, pretty much, based on the history
2 match, the SRV was less than 80 acre. So if we do not
3 put more wells, we are going to leave a lot of residual
4 oil underground. So we determined that the optimal well
5 spacing in the thickest sand was six well per section.

6 We did the top frac, and the additional pressure
7 build up also indicated there is no communication
8 between the two different sands. So that push us also
9 to continue to do the stagger lateral within the
10 section.

11 The peak rate for those wells that are producing
12 was about 850 in depth. And that is the rate that we
13 utilized to kind of base on the new (incomprehensible)
14 that we are requesting. And you also see the GOR for
15 the existing producing well. And we anticipate that we
16 are going to see the same thing for the Third Bone
17 Spring, so we are requesting an increase on the GOR
18 also.

19 Q. Was Exhibit 16 prepared by you?

20 A. Yes.

21 Q. And in your opinion, is the granting of this
22 application in the interests of conservation and the
23 prevention of waste?

24 A. Yes, it is.

25 MR. BRUCE: Mr. Examiner, I move the

1 admission of Exhibit 16.

2 EXAMINER McMILLAN: Exhibit 16 is now part
3 of the record.

4 (Devon Energy Production Company, LP,
5 Exhibit 16 was offered and admitted.)

6 EXAMINATION BY EXAMINER JONES

7 EXAMINER JONES: Thank you very much for
8 this. This is a great job here. I know it is all in a
9 unit, but it is still -- the science you guys did and
10 the history match is really nice. I like that.

11 So adding the third well to the Third Bone
12 Spring Sand is needed for the optimal well density and
13 the third well would be located pretty much on the line
14 if you didn't have the 320; is that correct?

15 THE WITNESS: Yes.

16 EXAMINER JONES: On the line between the 216
17 and --

18 THE WITNESS: Yes.

19 EXAMINER JONES: So it would be draining
20 both sides.

21 Now, and you said that your vertical -- I
22 heard you say that your vertical influence is contained
23 by the carbonates. Did you build that into your layers,
24 the different strengths, stresses, and everything?

25 THE WITNESS: Yes, we add that to our

1 layers.

2 EXAMINER JONES: You said you have stress
3 tests. Is that an open hole stress or did you --

4 THE WITNESS: No, it's case. It's not open
5 hole.

6 EXAMINER JONES: So you did some pre-frac
7 stress closure testing?

8 THE WITNESS: Yes, we did some frac
9 modeling. That was built in in our model.

10 EXAMINER JONES: Your model, did it include
11 all the way from the reservoir into the tanks; in other
12 words, you have a nodal analysis built into it?

13 THE WITNESS: Yes.

14 EXAMINER JONES: So what would be your
15 abandonment pressure in this reservoir?

16 THE WITNESS: Based on the existing well,
17 because we don't have any well producing at Devon for a
18 long time, so we were kind of assuming a minimum
19 pressure of about 250.

20 EXAMINER JONES: Okay.

21 Your IPR plot that you would look at -- I
22 know this is kind of a production engineering-type
23 thing -- it slopes over like a normal oil well; is that
24 correct? In other words, have you looked at the wells
25 under different --

1 THE WITNESS: Those wells are producing
2 ESPs, so we do not build the IPR --

3 EXAMINER JONES: Okay. And your bubble
4 point in the reservoir, did you have that in there
5 somewhere?

6 THE WITNESS: We did. The PVT test and the
7 bubble point for this particular year, but it was 2,600
8 psi. That was the bubble point versus the initial
9 reservoir that was around 4,000.

10 EXAMINER JONES: So you did an initial PVT?

11 THE WITNESS: Yes.

12 EXAMINER JONES: Was it a reconstituted PVT?

13 THE WITNESS: Yes.

14 EXAMINER JONES: So I guess one of the big
15 questions is, talking about your matrix versus your
16 fractures.

17 THE WITNESS: Yes.

18 EXAMINER JONES: I know your previous
19 colleague said matrix control, but, you know, you got
20 horizontal; you got your big frac jobs that you're
21 pumping with your 100 mesh or smaller sand maybe.

22 THE WITNESS: We use 100 mesh.

23 EXAMINER JONES: So where are those fracs
24 going? I mean, are they going -- in the vertical sense,
25 they are being contained, correct?

1 THE WITNESS: Yes, yes.

2 EXAMINER JONES: So in a horizontal sense,
3 which direction are they going -- or azimuth? Does it
4 have a stress direction?

5 THE WITNESS: See, we got to decrease a
6 little bit of water in our frac. So we see that we have
7 more kind of -- the frac is a little more contained
8 around the wellbores now, not having those long frac.
9 And we also utilized the ibery type of frac, to kind of
10 have a longer frac. We're trying to kind of stay within
11 the wellbore.

12 EXAMINER JONES: Okay. Because once you
13 start producing these wells -- they are producing
14 through the fractures, right?

15 THE WITNESS: Yes.

16 EXAMINER JONES: Maybe horizontally -- or
17 artificially created, but, still, there's got to be some
18 natural fracturing going on and the artificial
19 fractures. So how far laterally would one well drain --
20 influence -- in other words, if you drill one well in a
21 160 in the center, would it eventually influence the
22 areas outside the 160?

23 THE WITNESS: I think that is going to be
24 maybe over a long period of time.

25 EXAMINER JONES: But it would?

1 THE WITNESS: It could, yes. When we look
2 at our pressure depletion profile, this was maybe over
3 30 years that you start to see maybe some type of
4 interference. And we think that if they don't see each
5 other at all, we think we're leaving a lot of oil
6 underground. So you have to at least see some, but it
7 was minimum.

8 EXAMINER JONES: I see, and you're in a unit
9 and everything. But let's say that you owned a well
10 that is in the 160 over from where Devon is doing this
11 development and that Devon drilled a well in the middle
12 and they fractured it, would you want to be in on that
13 well? Would you want it to be 320 spacing?

14 In other words, you are the one that knows
15 about how far that well would eventually influence, even
16 though the actual drainage area that you calculate might
17 be real small, but, still, as far as the influencing, so
18 it would influence outside the 160?

19 THE WITNESS: It could, but I would say it's
20 really minimum. It was minimum from what we were seeing
21 from our pressure profile.

22 EXAMINER JONES: You guys just need it
23 because of optimal drainage?

24 THE WITNESS: Yes.

25 EXAMINER JONES: Okay. Now, that vertical

1 well, did you look at that any or --

2 THE WITNESS: No. That just kind of
3 surprised all of us.

4 EXAMINER JONES: Okay. And you actually
5 think you are going to need the limiting GOR of 10,000
6 to one?

7 THE WITNESS: (Witness nodding head up and
8 down.)

9 EXAMINER JONES: Your producing GOR is one
10 thing, but your limiting GOR is just the limit times the
11 maximum of the oil flow.

12 THE WITNESS: Yes.

13 EXAMINER JONES: But do you still need that?

14 THE WITNESS: Yes, I think we need it.

15 Because we may drill some more even First and Second
16 Bone Spring, surrounding that area, so we want to kind
17 of be safe and request it now.

18 EXAMINER JONES: Okay. Thank you.

19 EXAMINER McMILLAN: Are you currently
20 producing over the allowables now?

21 THE WITNESS: For the well that we have --
22 when we are going to put more well, we will do that.

23 MR. BRUCE: Mr. Konan, if you put more wells
24 online, you would be producing above the current
25 allowable, not the 4,500 per day that you're requesting?

1 THE WITNESS: Yes, we will.

2 EXAMINER McMILLAN: Go ahead.

3 MR. WADE: I have no questions.

4 EXAMINER McMILLAN: Very nice presentation.

5 EXAMINER JONES: Yes, very nice.

6 EXAMINER McMILLAN: Thank you.

7 So case No. 15412 will be continued until
8 December the 17th.

9 Let's take an eight-minute break and come
10 back at five till. Thank you very much.

11 Excuse me for a second. I need to make an
12 announcement.

13 MR. WADE: I believe there are some people
14 who wish to make comments on certain cases that are
15 coming up within the docket. And if that's the case, we
16 do have a sign-up sheet over on the desk for making
17 comments. So if you do, put your name and the case
18 number you would like to make comments on. It would be
19 appreciated.

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. _____,
heard by me on _____.

(Time noted 9:48 a.m.), Examiner
Oil Conservation Division

22
23
24
25

1 STATE OF NEW MEXICO)
2) ss.
3 COUNTY OF BERNALILLO)
4
5
6

7 REPORTER'S CERTIFICATE

8
9 I, ELLEN H. ALLANIC, New Mexico Reporter CCR
10 No. 100, DO HEREBY CERTIFY that on Thursday, December 3,
11 2015, the proceedings in the above-captioned matter were
12 taken before me, that I did report in stenographic
13 shorthand the proceedings set forth herein, and the
14 foregoing pages are a true and correct transcription to
15 the best of my ability and control.

16
17 I FURTHER CERTIFY that I am neither employed by
18 nor related to nor contracted with (unless excepted by
19 the rules) any of the parties or attorneys in this case,
20 and that I have no interest whatsoever in the final
21 disposition of this case in any court.

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