

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 MARATHON OIL PERMIAN,                   CASE NOS. 15906  
LLC FOR A NONSTANDARD SPACING AND                   and 15907  
PRORATION UNIT, NONSTANDARD LOCATIONS  
AND COMPULSORY POOLING, LEA COUNTY,  
NEW MEXICO.

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

January 25, 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, January 25, 2018, at the New Mexico Energy, Minerals and Natural Resources Department, Wendell Chino Building, 1220 South St. Francis Drive, Porter Hall, Room 102, Santa Fe, New Mexico.

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APPEARANCES

FOR APPLICANT MARATHON OIL PERMIAN, LLC:

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1	INDEX	
2		PAGE
3	Case Numbers 15906 and 15907 Called	4
4	Marathon Oil Permian, LLC's Case-in-Chief:	
5	Witnesses:	
6	Ryan Gyllenband:	
7	Direct Examination by Ms. Bradfute	6
	Cross-Examination by Examiner Brooks	21
8	Cross-Examination by Examiner Jones	22
9	Ethan Perry:	
10	Direct Examination by Ms. Bradfute	25
	Cross-Examination by Examiner Jones	34
11	Lane Neal:	
12	Direct Examination by Ms. Bradfute	37
13	Cross-Examination by Examiner Jones	43
14	Proceedings Conclude	48
15	Certificate of Court Reporter	49
16		
17		
18	EXHIBITS OFFERED AND ADMITTED	
19	Marathon Oil Permian, LLC Exhibit Numbers 1 through 7	(attached)
20	Marathon Oil Permian, LLC Exhibit Numbers 8 through 10	34
21	Marathon Oil Permian, LLC Exhibit Number 11	43
22		
23		
24		
25		

1 (2:40 p.m.)

2 EXAMINER JONES: Let's go back on the  
3 record. This is Case Numbers 15906 and 15907,  
4 application of Marathon Oil Permian, LLC for a  
5 nonstandard spacing and proration unit, nonstandard  
6 locations and compulsory pooling in Lea County, New  
7 Mexico.

8 Call for appearances.

9 MS. BRADFUTE: Jennifer Bradfute, with the  
10 Modrall Sperling Law Firm, on behalf of Marathon Oil  
11 Permian, LLC.

12 MR. HALL: Scott Hall on behalf of Advance  
13 Energy Partners. No witnesses, likely no questions.

14 MR. RANKIN: Adam Rankin, with Holland &  
15 Hart, appearing on behalf of EOG Y Resources and EOG  
16 Resources. No witnesses and likely no questions.

17 EXAMINER JONES: All right. We've evolved.  
18 (Laughter.)

19 EXAMINER JONES: I guess there are no other  
20 appearances.

21 Will the witnesses please stand?

22 And will the court reporter swear in the  
23 witnesses?

24 (Mr. Gyllenband, Mr. Perry and Mr. Neal  
25 sworn.)

1 MS. BRADFUTE: Mr. Examiners, I'll start  
2 out briefly explaining the two applications to be heard  
3 in this matter. I'm going to start in numerical order.  
4 Case Number 15907 is a very straightforward pooling case  
5 involving the Bone Spring well that will develop 160  
6 acres approximately. Case Number 15906 is an  
7 application to create a 320-acre spacing and proration  
8 unit within the Wolfcamp, but this Wolfcamp Pool is an  
9 oil pool that's at issue. And then it will include the  
10 development of three different wells within that pool,  
11 and we're asking for compulsory pooling as well.

12 MR. RANKIN: Before we get started, I'd  
13 like to make a quick statement for the record. EOG is  
14 anticipating working out an agreement with Marathon, so  
15 we're just entering an appearance today just to preserve  
16 our interest and rights. So with that, nothing further.

17 MR. HALL: And that's the same for Advance.

18 EXAMINER JONES: Okay.

19 MS. BRADFUTE: And I'd like to call my  
20 first witness.

21 EXAMINER JONES: Are we going to start with  
22 one case before the other or both together?

23 MS. BRADFUTE: Both together. It will be a  
24 little more efficient. I tried to include number and  
25 letter tabs to try to help distinguish between the two.

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RYAN GYLLENBAND,

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

DIRECT EXAMINATION

BY MS. BRADFUTE:

**Q. State your name for the record.**

A. Ryan Gyllenband.

**Q. And, Mr. Gyllenband, who do you work for?**

A. Marathon Oil Company.

**Q. And what is your position there?**

A. Land professional.

**Q. And, Mr. Gyllenband, what are your responsibilities as a land professional?**

A. Preparing wells for drilling, running title, curing title in Lea County, New Mexico.

**Q. And have you previously testified before the Division?**

A. Yes.

**Q. And were your credentials accepted and made part of the record?**

A. Yes.

**Q. And does your area of responsibility at Marathon include the area of Lea County in New Mexico?**

A. Yes.

**Q. And are you familiar with the applications that**

1 have been filed by Marathon in Case Numbers 15906 and  
2 15907?

3 A. Yes.

4 Q. And are you familiar with the status of the  
5 lands which are the subject matter of those  
6 applications?

7 A. Yes.

8 MS. BRADFUTE: I'd like to tender  
9 Mr. Gyllenband as an expert in land matters.

10 EXAMINER JONES: No objections?

11 MR. HALL: No objection.

12 MR. RANKIN: No objection.

13 EXAMINER JONES: So qualified.

14 Q. (BY MS. BRADFUTE) Mr. Gyllenband, if you could  
15 please turn to Tab 1 and then go to Tab A in the  
16 notebook that's in front of you. And could you please  
17 identify what this document is for the Hearing  
18 Examiners?

19 A. This is an application creating a nonstandard  
20 160-acre spacing and proration unit in the Bone Spring  
21 Formation comprised of the east half-east half of  
22 Section 26, 24 South, Range 34 East in Lea County, New  
23 Mexico approving nonstandard locations and pooling all  
24 the mineral interests in the Bone Spring Formation  
25 underlying this proposed standard and nonspacing

1 proration unit.

2 Q. Application for Case Number 15907, correct?

3 A. Yes.

4 Q. And it pertains to the Bone Spring Formation,  
5 correct?

6 A. Yes.

7 Q. Could you please turn to what's been marked as  
8 Tab B in Exhibit Number 1 and identify what this  
9 document is for the Hearing Examiners?

10 A. This is an application creating a nonstandard  
11 320-acre spacing and proration unit in the Wolfcamp  
12 Formation, comprised of the east half of Section 26, the  
13 24 South, 34 East, Lea County, New Mexico, approving  
14 nonstandard locations and pooling all mineral interests  
15 in the Wolfcamp underlying this proposed nonstandard  
16 spacing and proration unit.

17 Q. And this is Marathon Oil Company's application  
18 in Case Number 15906, correct?

19 A. Correct.

20 Q. And this application pertains to the Wolfcamp  
21 Formation?

22 A. That's right.

23 Q. Could you please turn to what's been marked as  
24 Exhibit Number 2 in the notebook that's in front of you?  
25 And this exhibit has two letter tabs again, so I want to

1     **turn first to Tab A. And could you please identify what**  
2     **this document is for the Hearing Examiners?**

3           A.     This is the Form C-102 for the Knife Fight 7H  
4     well, which is the Bone Spring well that's going to be  
5     drilled in the east half-east half of Section 26.

6           **Q.     Now, which pool will this well develop?**

7           A.     The Red Hills; Bone Spring, North Pool.

8           **Q.     And what is the pool code?**

9           A.     It is 96434.

10          **Q.     And Marathon seeks to create a nonstandard**  
11     **proration unit for this well?**

12          A.     That's correct.

13          **Q.     And is the Red Hills; Bone Spring, North Pool**  
14     **an oil pool that's governed by the Division statewide**  
15     **rules?**

16          A.     Yes.

17          **Q.     And you mentioned before that you're seeking a**  
18     **nonstandard location approval in your application,**  
19     **correct?**

20          A.     That's right.

21          **Q.     What are the nonstandard locations that**  
22     **Marathon is requesting?**

23          A.     The only nonstandard locations are the first  
24     take and the last take, which will be -- the first take  
25     will be 150 feet from the north line of the section, and

1 the last take point will be 150 feet from the south line  
2 of the section.

3 Q. And the remaining portions of the lateral will  
4 comply with the setback requirements?

5 A. That's correct.

6 Q. Okay. Could you please turn to Exhibit -- or  
7 Tab B within this exhibit? And this tab contains three  
8 pages of materials. I want to start with the first  
9 page. Could you please identify what this document is  
10 for the Hearing Examiners?

11 A. This is a C-102 for the Knife Fight 3H well.

12 Q. Okay. And which pool does this well develop?

13 A. The Antelope Ridge; Wolfcamp Pool.

14 Q. What is the pool code?

15 A. 2220.

16 Q. And is Marathon also seeking a nonstandard  
17 location approval for this well?

18 A. Yes. Just like with the 7H, 150 feet from the  
19 north line for the first take point and 150 feet from  
20 the south line for the last take point. But other than  
21 that, they all fall within the pool rules.

22 Q. Okay. And could you turn to the next page of  
23 this exhibit and identify what this document has for the  
24 Hearing Examiners?

25 A. This is the Form C-102 for Knife Fight 19H

1 well.

2 Q. And which pool will this well develop?

3 A. The Antelope Ridge; Wolfcamp Pool, Pool Code  
4 2220.

5 Q. So it is the same Wolfcamp pool as the previous  
6 well, correct?

7 A. Yes.

8 Q. And then this well will also have nonstandard  
9 locations of 150 feet off of the north and south lines?

10 A. That's correct.

11 Q. And could you please turn to the last page of  
12 this exhibit and identify what this document is?

13 A. This is the Form C-102 for the Knife Fight 6H  
14 well.

15 Q. Okay. And, again, Marathon is seeking  
16 nonstandard locations off of the north and south line  
17 for this well, correct?

18 A. Correct. 150 feet from the north and south  
19 line.

20 Q. Has Marathon notified affected parties that  
21 these wells are going to encroach towards about its  
22 application in this hearing today?

23 A. Yes, we have.

24 Q. In both cases?

25 A. Yes.

1 Q. And has Marathon notified parties of its  
2 request to create nonstandard proration units for both  
3 the Bone Spring and the Wolfcamp Formations?

4 A. Yes.

5 Q. I want to focus on the C-102 for the 6H well,  
6 which should be the document that's right in front of  
7 you. This well is proposed as an oil well that's going  
8 to develop the Wolfcamp Formation, correct?

9 A. Correct.

10 Q. So this formation is subject to the statewide  
11 rules for oilwell spacing?

12 A. Yes.

13 Q. But Marathon is seeking to create a nonstandard  
14 proration unit?

15 A. Yes.

16 Q. Which consists of 320 acres, correct?

17 A. Correct.

18 Q. Where will this well be located within that  
19 proposed proration unit?

20 A. Right down the centerline of the proposed  
21 320-acre unit.

22 Q. And why is Marathon proposing to locate this  
23 well near the centerline of this half section?

24 A. Because of our planned optimal spacing for this  
25 half section, it requires a well right down the middle,

1 and so to move it either side of that line, it would  
2 create an NSL and potentially leave out some people in  
3 either side of this line. So we thought the fairest and  
4 most equitable way to develop it would be to drill it  
5 right down the line and form a joint 320-acre spacing  
6 unit.

7 Q. And the interest owners from each of the  
8 160-acre areas within this proposed unit would benefit  
9 economically on this well?

10 A. Correct.

11 Q. Could you please -- oh, and Marathon does  
12 propose to drill two other wells within this 320-acre  
13 spacing unit, correct?

14 A. Yes, the 3H and the 19H wells.

15 Q. Okay. And could you point out to the Hearing  
16 Examiners approximately where those wells will be  
17 located in connection with this 6H?

18 A. The 3H will be 990 -- approximately 990 feet  
19 west of this. And the 19H will be approximately 990  
20 feet east of this, so 330 off of the east side, and then  
21 the 3H, 330 feet off of the west line of -- section.

22 Q. Great.

23 Could you please turn to what has been  
24 marked as Tab 3 in the notebook that's in front of you?  
25 And this exhibit has two different pages. I wanted to

1 start with the first page. Could you please walk the  
2 Hearing Examiners through this diagram?

3 A. This is showing the proposed spacing unit for  
4 the 7H well, and it's identifying each of the tracts  
5 that we are proposing to pool there covering the east  
6 half of the east half in Section 26. Each one of these  
7 is fee interest.

8 Q. Okay. So these are all fee leases that are at  
9 issue?

10 A. Correct.

11 Q. Okay. Great.

12 Could you please turn to the next page and  
13 explain what this diagram shows to the Hearing  
14 Examiners?

15 A. This is the same thing but for the 3H, 6H and  
16 19H. It's showing all of the proposed tracts that we're  
17 proposing to pool there in the east half of Section 26.

18 Q. And, again, does this acreage consist solely of  
19 fee acreage?

20 A. Yes.

21 Q. Could you please turn to what's been marked as  
22 Exhibit Number 4 within your notebook in front of you  
23 and identify what the first page of this exhibit  
24 contains?

25 A. This is showing the committed working interests

1 and then also the uncommitted interests in the east half  
2 of Section 26 for the 3H, the 6H and the 19H Wolfcamp  
3 Pool that we're proposing to pool.

4 **Q. And who are the parties that Marathon is**  
5 **seeking to pool in its application for the Wolfcamp**  
6 **wells?**

7 A. All the uncommitted interests in the pool.

8 **Q. Okay. And could you please turn to the second**  
9 **page of this exhibit and kind of walk the Hearing**  
10 **Examiners through this document?**

11 A. This is showing the committed working interests  
12 and the uncommitted owners in the east half of the east  
13 half of Section 26 which is subject to the 7H Bone  
14 Spring well that we're planning to drill.

15 **Q. And who are the parties that Marathon seeks to**  
16 **pool in the application related to the Bone Spring 7H**  
17 **well?**

18 A. All the uncommitted owners in this east  
19 half-east half spacing unit.

20 **Q. Can you please summarize to the Hearing**  
21 **Examiners what efforts Marathon has made to obtain**  
22 **voluntary joinder of interest in both of the proposed**  
23 **project areas?**

24 A. Initially, we sent out well proposals and AFEs,  
25 followed up with JOAs or offers to lease, and then

1 continued with phone calls trying to get joinder of all  
2 the parties.

3 Q. Could you please turn to Tab Number 5 in the  
4 notebook in front of you and identify what these  
5 documents are to the Hearing Examiners?

6 A. The first two pages there is a sample letter  
7 that was sent to the working owners in -- the  
8 uncommitted working -- the uncommitted working interest  
9 owners in the sections that we're proposing to pool.  
10 And then the next two pages is the sample letter we sent  
11 to the unleased mineral interest owners.

12 Q. And these letters both contain a separate  
13 election for each of the wells that have been proposed  
14 so the affected interest owners could elect for each  
15 separate well whether or not they wanted to participate?

16 A. Correct.

17 Q. In your opinion, has Marathon made a good-faith  
18 effort to obtain voluntary joinder in the wells?

19 A. Yes, we have.

20 Q. And did each of the well-proposal letters  
21 include an AFE for each of the wells that's being  
22 proposed as well?

23 A. Yes.

24 Q. Could you please turn to Tab Number 6? And  
25 this, again, has several letter tabs within this

1 **Exhibit. I want to first turn to Tab A within Exhibit**  
2 **6. Is this one of the AFEs that Marathon sent out to**  
3 **interest owners?**

4 A. Yes.

5 **Q. And which well is this AFE for?**

6 A. This is for the Knife Fight 7H well.

7 **Q. And could you please describe the cost for**  
8 **drilling and completing the well?**

9 A. The overall cost is \$7,397,073. The total  
10 drilling cost is \$2,576,155, and the total completion  
11 cost is \$3,797,896.

12 **Q. And could you please turn to Tab B of Exhibit 6**  
13 **and identify what that document is?**

14 A. This is the AFE for the Knife Fight 3H with an  
15 overall cost for the well of \$7,350,667, the drilling  
16 cost of \$2,586,489, and with a completion cost of  
17 \$3,797,896.

18 **Q. Could you please turn to Tab C and identify**  
19 **what that document is for the Hearing Examiners?**

20 A. This is the AFE for the Knife Fight 19H, with a  
21 total cost of \$7,350,666, a total drilling cost of  
22 \$2,286,489, and a total completion cost of \$3,797,896.

23 **Q. And could you please turn to Tab D of Exhibit 6**  
24 **and identify what this document is?**

25 A. This is the AFE for the Knife Fight 6H well,

1 with a total cost of \$9,441,096, a total drilling cost  
2 of \$4,676,918, and a total completion cost of  
3 \$3,797,896.

4 Q. Now, the costs for the 6H well are higher than  
5 the costs for some of the other wells that are being  
6 proposed. Why is that?

7 A. We're planning to drill a pilot hole on this  
8 well to run some advanced logs and also take some cores.

9 Q. And are the costs for the pilot hole identified  
10 on the AFE?

11 A. Yes, they were.

12 Q. And could you point out where those are  
13 identified for the Hearing Examiners?

14 A. It's on the drilling side. It's \$460,000 for  
15 the well-logging service and some other associated  
16 charges, but they're all listed out there separately.

17 Q. Okay. Thank you.

18 And are the costs for each of these wells  
19 in line with the cost to drill other horizontal wells  
20 drilled to these depths and these lengths within this  
21 area of New Mexico?

22 A. Yes.

23 Q. And who, in your opinion, should be appointed  
24 as the operator of these wells?

25 A. Marathon Oil Permian, LLC.

1           Q.    And do you have a recommendation for the  
2 amounts that Marathon should be paid for supervision and  
3 administrative expenses?

4           A.    Yes, \$7,000 per month while drilling and \$700  
5 per month while producing.

6           Q.    And are these amounts equivalent to those  
7 normally charged by Marathon and other operators in this  
8 area for horizontal wells that are drilled to these  
9 lengths and depths?

10          A.    Yes.

11          Q.    And do you request that these rates be adjusted  
12 periodically as provided for under the COPAS accounting  
13 procedure?

14          A.    Yes.

15          Q.    Does Marathon request the maximum cost plus 200  
16 percent risk charge if any pooled working interest owner  
17 fails to pay its share of costs for drilling, completing  
18 and equipping the wells?

19          A.    Yes.

20          Q.    And were the parties that you're seeking to  
21 pool notified of this hearing?

22          A.    Yes.

23          Q.    Could you please turn to what's been marked as  
24 Tab 7? And this is set out in two different letter  
25 tabs, first Tab A and then Tab B. I want to first look

1 at Tab A. Does Tab A contain an affidavit that your  
2 counsel prepared confirming that notice was sent to all  
3 affected parties of Marathon's application in Case  
4 Number 15906?

5 A. Yes.

6 Q. And if you look at the very last page contained  
7 in Tab A, is it an Affidavit of Publication from a  
8 newspaper of general circulation located in Lea County?

9 A. Yes.

10 Q. Could you please turn to Tab B? Does Tab B  
11 contain an Affidavit of Notice prepared by your attorney  
12 in this case for Case Number 15907 confirming that  
13 notice has been provided to all affected parties of that  
14 application?

15 A. Yes.

16 Q. And could you please turn to the last page of  
17 Tab B? Is this document an Affidavit of Publication  
18 from a newspaper confirming that notice was published?

19 A. Yes.

20 MS. BRADFUTE: That concludes my questions  
21 for this witness.

22 EXAMINER JONES: Mr. Rankin?

23 MR. RANKIN: No questions.

24 MR. HALL: No questions.

25 EXAMINER JONES: Mr. Brooks?

CROSS-EXAMINATION

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BY EXAMINER BROOKS:

**Q. Have you got any overrides, and were they notified?**

A. There are some overrides. Their -- the leases have pooling clauses and also the assignments.

**Q. So there -- there is no question about notice to them because there are pooling clauses in the assignments, as well as in the leases --**

A. Correct.

**Q. -- the assignments of the overrides?**

A. Correct.

**Q. Okay. That's good.**

**The people that -- there were some people that you were unable to get addresses for, correct?**

A. Correct.

**Q. And did you notify those people -- did you make a diligent effort to locate correct addresses for those people?**

A. That's right. The only ones that I -- the only one that I think actually didn't get notice was Mr. Curtis Taylor, who is deceased. We talked to --

**Q. It's kind of hard to give notice to deceased persons.**

A. Yes, sir.

1                   We talked to his brother, and he was not  
2     able to give us any information on where his heirs went.  
3     He said he has not talked to his nephew or niece in  
4     several years.

5                   MS. BRADFUTE: But he was listed by name in  
6     the publication.

7                   EXAMINER BROOKS: Very good. I think  
8     that's all I have.

9                   CROSS-EXAMINATION

10                  BY EXAMINER JONES:

11                  **Q. What about the surface location? It's all fee,**  
12     **isn't it? Did you have to actually get a use agreement**  
13     **with --**

14                  A. Yes, sir. We're currently negotiating a  
15     surface-use agreement with the surface owner.

16                  **Q. And you're anticipating joinder by some more of**  
17     **the working interests?**

18                  A. Yes. We're currently negotiating with Matador  
19     a JOA, several other parties, and then we're working on  
20     a trade with EOG.

21                  **Q. Oh, okay.**

22                  EXAMINER JONES: Chuck is sitting back in  
23     the back, I noticed. Working in the back, I should say.

24                  MS. BRADFUTE: My understanding,  
25     Mr. Examiner, the parties reached a deal in principle.

1           **Q.    (BY EXAMINER JONES) Okay.  And Advance, they're**  
2 **a party to a working interest?**

3           A.    Yes.  We provided them with a JOA, and I've  
4 talked to Mr. Scott several times.

5           **Q.    He disappeared.**

6           A.    David -- David Scott is their landman, and then  
7 Scott is their attorney.  He does have our JOA, and I  
8 think he's reviewing it.

9           **Q.    Okay.  So it's pretty much -- it's all fee, but**  
10 **you've got some working -- you're pooling working**  
11 **interest owners, and you're pooling unleased mineral**  
12 **owners?**

13          A.    Yes, sir.

14          **Q.    So some pooling parties are not located, is**  
15 **that correct, or not even known about?  You were talking**  
16 **about somebody's --**

17          A.    The only one is Curtis Robert Taylor that we  
18 were not able to get in touch with, at least over the  
19 phone.

20          **Q.    Okay.  And you provided notice all the way**  
21 **around for the nonstandard proration unit and --**

22                   MS. BRADFUTE:  In the Bone Spring, that is  
23 correct, to all offsets.

24                   EXAMINER JONES:  To all offsets.

25                   MS. BRADFUTE:  Yes.  Yeah.

1           Q.    (BY EXAMINER JONES) And as far as the NSL goes,  
2   you're just NSL on the toe and the heel; is that  
3   correct?

4           A.    Yes, sir.

5           Q.    So did you have any issues with parties there  
6   that you were applying --

7           A.    We didn't, no.

8           Q.    -- for?

9                         So you provided notice to all affected  
10   parties?

11          A.    Yes, sir.

12          Q.    To the north and to the south?

13                        MS. BRADFUTE:  Yes.  And we looked at  
14   diagonal, if there were any instance that needed to go  
15   diagonal.

16                        EXAMINER JONES:  Okay.  That was the  
17   Brooks' quarrel.

18                        And we don't have APIs on these yet?

19                        MS. BRADFUTE:  That is correct.

20                        And I guess one point we should clarify is  
21   that these C-102s, these exhibits, have not been  
22   submitted yet to the district office because the  
23   nonstandard locations haven't been approved yet.  So  
24   these are not as-filed plats, but we thought they would  
25   be easier for you to use.

1 EXAMINER JONES: Okay.

2 THE WITNESS: But we have some submitted  
3 permits just with a 330 offset, and we're waiting on the  
4 order to change the plats --

5 Q. (BY EXAMINER JONES) Okay. There shouldn't be  
6 any issues with locations changing, should there?

7 A. No, sir.

8 Q. The fee owners are okay with you putting the  
9 locations where you're proposing?

10 A. So far they've -- they've been fine. We're  
11 working on an SUA, so I don't -- I don't think that they  
12 will have us move it because it's been staked.

13 EXAMINER JONES: Okay. Any other  
14 questions?

15 MR. RANKIN: Not from me.

16 EXAMINER JONES: Thanks very much.

17 MS. BRADFUTE: I'd like to call my second  
18 witness.

19 ETHAN PERRY,  
20 after having been previously sworn under oath, was  
21 questioned and testified as follows:

22 DIRECT EXAMINATION

23 BY MS. BRADFUTE:

24 Q. Could you please state your name for the  
25 record?

1           A.    Ethan Perry.

2           **Q.    And, Mr. Perry, who do you work for?**

3           A.    Marathon Oil.

4           **Q.    And what are your responsibilities at Marathon?**

5           A.    I'm a geologist.

6           **Q.    And what do you do regularly as a geologist?**

7           A.    My responsibilities include conducting  
8 geological studies and well planning in Eddy and Lea  
9 Counties, New Mexico.

10          **Q.    And have you previously testified before the**  
11 **Division?**

12          A.    Yes, I have.

13          **Q.    And were your credentials accepted and made a**  
14 **part of the record?**

15          A.    Yes, they were.

16          **Q.    Are you familiar with the applications that**  
17 **have been filed by Marathon in these matters?**

18          A.    Yes.

19          **Q.    And are you familiar with the status of the**  
20 **lands which are the subject matter of these**  
21 **applications?**

22          A.    Yes, ma'am.

23          **Q.    And are you familiar with the drilling plans**  
24 **for the wells?**

25          A.    Yes, ma'am.

1           **Q.    And have you conducted a geologic study of the**  
2 **areas embracing the proposed spacing units for the**  
3 **wells?**

4           A.    Yes, I have.

5                   MS. BRADFUTE:  I'd like to tender Mr. Perry  
6 as an expert witness in geology matters.

7                   EXAMINER JONES:  Any objection?

8                   MR. RANKIN:  No objection.

9                   EXAMINER JONES:  He is so qualified.

10           **Q.    (BY MS. BRADFUTE) Mr. Perry, what is the**  
11 **targeted interval for the Wolfcamp wells, which consist**  
12 **of the 3H, the 6H and the 19H?**

13           A.    Those three wells will be targeting the Upper  
14 Wolfcamp.

15           **Q.    And what is the targeted interval for the 7H**  
16 **well?**

17           A.    The 3rd Bone Spring Sand.

18           **Q.    Could you please turn to Exhibit 8?  And I want**  
19 **to first focus on Tab A in that exhibit.  Could you**  
20 **please identify what this exhibit is for the Hearing**  
21 **Examiners?**

22           A.    This exhibit contains a structure map on the  
23 top of the Wolfcamp.  The Wolfcamp is the surface  
24 immediately underlying the producing interval that we're  
25 proposing for the 3rd Bone Sand.  You can see from the

1 structural contours that the structure dips from  
2 northwest to southeast -- down to the southeast. The  
3 Marathon acreage is shown in yellow. The project area  
4 is shown in the dashed black rectangle in the east half  
5 of Section 28 -- or 26. I'm sorry. I've also included  
6 three-well cross section, A to A prime, which we'll look  
7 at it in a subsequent exhibit. I've also included  
8 offsetting 3rd Bone Spring Sand producers, and the four  
9 subject wells are annotated with 1 through 4.

10 **Q. Could you please turn to Exhibit -- or Tab B**  
11 **within this exhibit and explain what this document is to**  
12 **the Hearing Examiners?**

13 A. This is a stratigraphic cross section hung on  
14 the Wolfcamp datum, and the producing zone, the 3rd Bone  
15 Spring interval, is shown -- or highlighted in green.  
16 This is the A to A prime cross section. The log tracks  
17 on this three-well cross section are -- gamma ray is on  
18 the left, the depth track. The resistivity is the next  
19 track over. The green shading is density porosity  
20 greater than 6 percent, and the rightmost track contains  
21 the caliper and then the neutron-density porosity logs.

22 **Q. And are the wells that you've selected for this**  
23 **cross section representative of wells within the area?**

24 A. Yes, they are.

25 **Q. And what does this cross section show you about**

1    **the acreage within the Bone Spring Formation in the**  
2    **area?**

3           A.    It shows that the gross interval is relatively  
4    consistent across the area.

5           **Q.    Could you please turn to Tab C within this**  
6    **exhibit and explain what this document is to the Hearing**  
7    **Examiners?**

8           A.    This is a net sand isochore for the 3rd Bone  
9    Spring interval.  Marathon acreage is again shown in  
10   yellow.  The project area is the dashed rectangle, and  
11   the offsetting 3rd Bone Spring producers in the  
12   red-black circles -- red-and-black circles.  The same  
13   three-well cross section shows that the net sand  
14   thickness for the 3rd Bone Spring interval is roughly  
15   consistent, 250 to 300 foot thick across the project  
16   area.

17          **Q.    And what conclusions can you draw from your**  
18    **study of the Bone Spring Formation within this area?**

19          A.    Based on the available data, we expect the  
20    reservoir thickness and continuity is relatively  
21    consistent across the project area.

22          **Q.    And did you notice any impediments to**  
23    **horizontal development within this area?**

24          A.    No.

25          **Q.    Did you notice any faults or pinch-outs?**

1           A.    No.

2           Q.    Will the Bone Spring well, the 7H well, be  
3 productive in each 40-acre tract that contributes to the  
4 well?

5           A.    Yes.

6           Q.    And will each quarter-quarter tract contribute  
7 approximately equally to production from the well?

8           A.    Yes.

9           Q.    Could you please turn to Exhibit 9?  And,  
10 again, this has several letter tabs under it, and I want  
11 to first look at Tab A.  Could you please identify what  
12 the document is under Tab A for the Hearing Examiners?

13          A.    This is a structure map on the top of the  
14 Wolfcamp showing the same Marathon acreage and project  
15 area, with the Knife Fight wells straight [sic] 1  
16 through 4.  Again, the structure of the Wolfcamp dips  
17 northwest to southeast.  In this instance, I've shown  
18 the Upper Wolfcamp offset producers with the  
19 black-and-red circles.

20          Q.    And did you also prepare a cross section of  
21 logs when you were putting together this structure map  
22 for the Wolfcamp Formation?

23          A.    Yes.

24          Q.    Could you please turn to Tab B?  And is the  
25 document in Tab B the cross section that you put

1     **together for the Wolfcamp Formation?**

2           A.     Yes, ma'am.

3           **Q.     And could you please walk the Examiners through**  
4 **this document?**

5           A.     This is the A to A prime cross section shown on  
6 the previous plat.  Again, a stratigraphic cross section  
7 hung on the Wolfcamp surface, with the producing Upper  
8 Wolfcamp zones -- Wolfcamp marker down to the Wolfcamp B  
9 highlighted in green.

10          **Q.     And could you please turn to Tab C in this**  
11 **exhibit and identify what this document is for the**  
12 **Hearing Examiners?**

13          A.     This is a gross interval isochore using the  
14 surface as the Wolfcamp to the Wolfcamp B, and it  
15 illustrates that the gross interval thickness is  
16 relatively consistent across the project area.  Again,  
17 we're showing the Knife Fight unit in the dashed  
18 rectangle.

19          **Q.     And what conclusions have you drawn from your**  
20 **geologic study of the Wolfcamp Formation within this**  
21 **area?**

22          A.     We expect the reservoir thickness and the  
23 quality to remain fairly consistent across the project  
24 area.

25          **Q.     And did you notice any impediments to**

1 horizontal development within this proposed project for  
2 the horizontal -- or for the Wolfcamp wells?

3 A. No, ma'am.

4 Q. Did you notice any faults or pinch-outs?

5 A. No.

6 Q. And in your opinion, will each of the  
7 horizontal wells contribute approximately equal to the  
8 320-acre unit that's being proposed?

9 A. Yes.

10 Q. And will each of the horizontal wells be  
11 productive in the Wolfcamp Formation?

12 A. Yes.

13 Q. Could you please turn to what's been marked as  
14 Exhibit Number 10 and identify what this exhibit  
15 contains for the Hearing Examiners?

16 A. This exhibit shows a wellbore schematic for the  
17 WXY 3H well showing a back-build from the surface-hole  
18 location to the north section line of Section 26 and  
19 with the first and last take points no closer than 150  
20 foot from the north and south line, targeting the Upper  
21 Wolfcamp.

22 Q. And can you turn to the next page and walk the  
23 Examiner through that page?

24 A. This wellbore schematic is for the WA 6H  
25 wellbore, again a back-build to the north section line

1 and landing in the Upper Wolfcamp. In this case this is  
2 a pilot well, so we'll be taking this -- drilling a  
3 pilot hole down to the Lower Wolfcamp in this instance.

4 **Q. And could you please turn to the next page and**  
5 **identify this document?**

6 A. A wellbore schematic for the TB 7H well, again  
7 a back-build to the Section 26 line, and the first and  
8 last take points no closer than 150 foot from the north  
9 and south line.

10 **Q. And could you turn to the next page of this**  
11 **exhibit and identify what this document is?**

12 A. This is a wellbore schematic for the WXY 19H  
13 showing a similar back-build to the north section line  
14 of 26, and the first and last take points no closer than  
15 150 foot from the section lines.

16 **Q. In your opinion, would the granting of**  
17 **Marathon's applications in these cases be in the best**  
18 **interest of conservation, the prevention of waste and**  
19 **the protection of correlative rights?**

20 A. Yes.

21 **Q. And were Exhibits 8 through 10 prepared by you**  
22 **or compiled under your direction and supervision?**

23 A. Yes, they were.

24 MS. BRADFUTE: I'd like to move to admit  
25 Exhibits 8 through 10 into the record.

1 MR. RANKIN: No objection.

2 EXAMINER JONES: 8 through 10 are admitted.  
3 (Marathon Oil Permian, LLC Exhibit Numbers  
4 8 through 10 are offered and admitted into  
5 evidence.)

6 EXAMINER JONES: Questions, Mr. Rankin?

7 MR. RANKIN: No questions.

8 EXAMINER BROOKS: No questions.

9 CROSS-EXAMINATION

10 BY EXAMINER JONES:

11 Q. Well, it just seems like you're going through  
12 the 3rd Bone Spring and then the Upper Wolfcamp, so  
13 they're reasonably close. But you're wanting to put  
14 that center Wolfcamp well in.

15 A. Uh-huh.

16 Q. And I guess we'll hear some arguments about  
17 that in a few minutes?

18 A. Yes. I'll certainly defer to my reservoir  
19 engineer counterpart to discuss the spacing  
20 considerations.

21 Q. What about fracturing in the Wolfcamp as far as  
22 geologically?

23 A. In terms of natural fracturing?

24 Q. Yeah.

25 A. There certainly can be natural fractures. A

1 lot of times they're heel-cemented up with carbonates --  
2 calcium carbonate cement. In some cases, they can be  
3 open in structurally complex areas. Based on the  
4 available data, we don't see any large structures that  
5 run counter to the regional dip in this particular area.

6 **Q. So it's part of the risk whether these**  
7 **fractures are filled or not?**

8 A. Yes. The nature of the fractures is unknown  
9 unless you run an image log or something along those  
10 lines.

11 **Q. What kind of porosity are you looking for in**  
12 **the Wolfcamp?**

13 A. Generally, us and many operators use sort of a  
14 6 percent -- greater than 6 percent density-porosity  
15 cutoff in terms of producibility.

16 **Q. What about the Bone Spring? What porosity are**  
17 **you looking for there?**

18 A. Currently, we use a similar 6 percent cutoff.  
19 We see porosities higher in some cases in the Bone  
20 Spring interval.

21 **Q. But you see more silts and clays in the**  
22 **Wolfcamp?**

23 A. We do. It's -- the Bone Spring is more sand  
24 prone. Its turbidite expands as you move into the  
25 Basin, and the net sand thickness in the 3rd Bone Spring

1 is perhaps a little bit higher than in the Upper  
2 Wolfcamp where it's more compartmentalized than the  
3 Wolfcamp.

4 **Q. Was it more active in the Bone Spring time than**  
5 **the Wolfcamp time, or was it quieter in the Bone Spring**  
6 **time?**

7 A. It's -- there is unconformity between the  
8 Wolfcamp and so a gap in time.

9 **Q. It's in an unconformity. How many years you**  
10 **think of that?**

11 A. We're talking hundreds of thousands to a  
12 million years, that time frame, fairly short by geologic  
13 standards.

14 **Q. Okay. Does unconformity mean it was there and**  
15 **it was eroded off or --**

16 A. In some cases, you see incision from the Bone  
17 Spring into the Wolfcamp, but it's not a long hiatus.  
18 But yeah, in general, the -- the depositional systems  
19 are actually fairly consistent. You have turbidites.  
20 You have deep-basin sands moving into the system both  
21 from the late Wolfcamp time and up through the Bone  
22 Spring period as well.

23 **Q. Did the unconform- -- I've always heard that**  
24 **unconformities are areas that might be really good**  
25 **producing targets or exploration targets. So is that**

1     **because migration is easier through those intervals**  
2     **or --**

3           A.     You can certainly have a bedding parallel  
4     migration, and unconformity can be a mechanical  
5     interface, as well as a migration pathway in some  
6     instances.    Yes.

7           **Q.     Okay.   Thanks very much.**

8                   MS. BRADFUTE:   Thank you.

9                   I'd like to call my last witness.

10                  EXAMINER JONES:   The rest of you can go  
11     jump on the plane (laughter).

12                                   LANE NEAL,

13                  after having been previously sworn under oath, was  
14                  questioned and testified as follows:

15                                   DIRECT EXAMINATION

16     BY MS. BRADFUTE:

17           **Q.     Could you please state your name for the**  
18     **record?**

19           A.     Lane Neal.

20           **Q.     And, Mr. Neal, who do you work for?**

21           A.     Marathon Oil.

22           **Q.     What is your position at Marathon?**

23           A.     I'm the subsurface manager for Marathon's  
24     Permian asset.   I lead a team of reservoir engineers and  
25     geologists charged with the development of Marathon's

1 Permian assets.

2 Q. And have you previously testified before the  
3 Division?

4 A. No, ma'am.

5 Q. Could you please explain your educational  
6 background to the Examiners?

7 A. Sure. I have a Bachelor of Science degree in  
8 petroleum engineering from Texas A & M University.

9 Q. And could you please explain your professional  
10 background to the Examiners?

11 A. Yes. I've got ten years of experience in  
12 various reservoir, drilling, production, engineering  
13 roles and functions with my previous employer, Hess  
14 Corporation, as well as with Marathon, my current  
15 employer.

16 Q. And are you familiar with the applications that  
17 have been filed by Marathon in these cases?

18 A. Yes, I am.

19 Q. And are you familiar with the status of the  
20 lands which are the subject matter of these  
21 applications?

22 A. Yes, ma'am.

23 Q. And are you familiar with the drilling plans  
24 for the Knife Fight 3H, 6H, 19H and 7H wells?

25 A. I am.

1 MS. BRADFUTE: I'd like to tender Mr. Neal  
2 as an expert in engineering matters.

3 MR. RANKIN: No objection.

4 EXAMINER JONES: So qualified.

5 Q. (BY MS. BRADFUTE) Mr. Neal, could you please  
6 turn to what is marked as Exhibit Number 11 in the  
7 notebook in front of you?

8 A. Yes, ma'am.

9 Q. And could you please identify what this  
10 document is to the Hearing Examiners?

11 A. Sure. What we're showing here is a base map  
12 surface view, as well as a cross-sectional depiction of  
13 the development plan for the four wells that are the  
14 subject of our cases today.

15 Q. Okay. And where will the 6H be located in  
16 relation to the centerline of the east half of Section  
17 26?

18 A. Sure. It's going to be drilled along the  
19 centerline of the -- right down the middle, basically,  
20 of the east half of Section 26.

21 Q. And does Marathon have other acreage within the  
22 vicinity of that proposed project area in the Wolfcamp  
23 Formation?

24 A. Yes, ma'am. We've got approximately 13,000  
25 acres in the area around this immediate vicinity.

1           **Q.    And there's been other testimony. There's**  
2 **going to be two other Wolfcamp wells within the half**  
3 **section well, correct?**

4           A.    Yes, ma'am. As we're depicting on this  
5 picture, you've got the X-Y 3H and the X-Y 19H, as well  
6 as the 6H down the middle.

7           **Q.    And do you believe that developing three**  
8 **Wolfcamp wells across the half section is the most**  
9 **efficient, economical way to develop the Wolfcamp**  
10 **Formation?**

11          A.    Yes, ma'am.

12          **Q.    And why is that?**

13          A.    Yeah. We believe that's the optimal  
14 development density for maximizing recovery while  
15 minimizing waste and preventing any -- and preventing  
16 waste and protecting correlative rights.

17          **Q.    And in your opinion, will the Wolfcamp oil**  
18 **wells develop and drain portions of the lands in each**  
19 **quarter-quarter section within the proposed 320-acre**  
20 **project area?**

21          A.    Yes, ma'am.

22          **Q.    In your opinion, will production from each well**  
23 **be reasonably uniform across the entire length of the**  
24 **laterals?**

25          A.    To the best of our knowledge, yes, we believe

1 that.

2 Q. And in what order does Marathon plan to  
3 complete these wells?

4 A. Our tentative plan right now is to frac the 7H  
5 and 19H together first, followed -- zippered together,  
6 immediately followed by the 3H and 6H zippered as the  
7 second pair, and then they would all be brought online  
8 together.

9 Q. And are similar drilling plans used by Marathon  
10 in other basins?

11 A. Yes, ma'am.

12 Q. And has Marathon found that this development  
13 plan is an effective plan to drain the half section?

14 A. Yes, ma'am, we do.

15 Q. In your opinion, will this plan of development  
16 be successful?

17 A. Yes, ma'am. In our opinion, it will be.

18 Q. And in your opinion, will this plan of  
19 development within this area result in the production of  
20 more oil than would occur if you used less wells within  
21 this half section?

22 A. Yes, ma'am. That's our belief.

23 Q. And do you expect that the EUR from this plan  
24 of development will be greater than if Marathon excluded  
25 the well that will be drilled down the center?

1           A.    Yes.  We absolutely believe that to be the  
2 case.

3           Q.    And by producing more oil using this drilling  
4 pattern, Marathon is preventing waste, correct?

5           A.    Absolutely.

6           Q.    Experts in other cases have testified before  
7 the Division that once horizontal wells have been  
8 drilled in a particular pattern, it's very difficult to  
9 go back in and drill infill wells.

10          A.    That's been our experience across, you know,  
11 many different basins.

12          Q.    So Marathon is incentivized to get the spacing  
13 correct the first time it goes in and drills these  
14 wells?

15          A.    Yes, ma'am.  That's correct.

16          Q.    And did Marathon take that into consideration  
17 when it was locating the 6H well down the center of the  
18 half section?

19          A.    We did.

20          Q.    And in your opinion, would the granting of  
21 Marathon's application be in the best interest of  
22 conservation, the prevention of waste and the protection  
23 of correlative rights?

24          A.    Yes, ma'am.

25          Q.    And was Exhibit 11 prepared by you or compiled

1 under your direction?

2 A. Yes, it was.

3 MS. BRADFUTE: I'd like to move to admit  
4 Exhibit 11 into the record.

5 EXAMINER JONES: Exhibit 11 is admitted.

6 MR. RANKIN: No objections.

7 (Marathon Oil Permian, LLC Exhibit Number  
8 11 is offered and admitted into evidence.)

9 EXAMINER JONES: Any questions?

10 MR. RANKIN: No questions.

11 EXAMINER BROOKS: No questions.

12 CROSS-EXAMINATION

13 BY EXAMINER JONES:

14 Q. Can you -- the 150 feet -- foot for the heel  
15 and the toe, was that something that you guys have  
16 determined scientifically, or was that just a number?

17 A. No. I mean, it allows us to pick up an  
18 additional stage on the toe and heel side, maximizing  
19 lateral lengths and maximizing recovery and the recovery  
20 of minerals. So that's of kind the driver for it.

21 Q. Yeah. It does -- but what about the -- how far  
22 out are you expecting the influence of that last --  
23 first and last frac job to go --

24 A. Yeah, outside to the north and south,  
25 basically. Yeah. I mean, generally speaking, from the

1 modeling work our technical team has done, we're not  
2 seeing significant amounts of drainage outside from sort  
3 of the fracture drilling north-south. We're not  
4 anticipating a significant amount of drainage outside  
5 the unit from that. That's -- that's our current --  
6 we're also not going to protest if anybody comes back  
7 and decides they want to put -- and likes 150-foot  
8 setbacks on the north side from us as well. That would  
9 not be something we would be opposed to.

10 **Q. Okay. What about the well drilled down the**  
11 **center -- the Wolfcamp well drilled down the center?**  
12 **Can you say that well will -- after it's been fractured,**  
13 **will it basically what you could call develop all of the**  
14 **40-acre tracts within the 320-acre proposed unit?**

15 A. I wouldn't say that that the Wolfcamp -- the WA  
16 6H well in isolation will drain that 320-acre unit, but  
17 we believe that the three wells in combination will  
18 drain, you know, all of the 40-acre tracts within the  
19 unit.

20 **Q. Can you say that that center well will drain**  
21 **portions of all of the 40-acre tracts that are in the**  
22 **320-acre unit?**

23 A. I mean, that's one of those -- I would say that  
24 I think that the Wolfcamp A 6H well will drill -- I  
25 mean, will drain portions of a lot of those, but I don't

1 think it will necessarily drain all of them.

2 **Q. Right.**

3 A. Right. That's why we want to form the  
4 proration unit with the three wells. To us that's the  
5 most equitable way to ensure that everybody's  
6 correlative rights are protected.

7 MS. BRADFUTE: And the Division has issued  
8 similar relief involving a multiwell drilling plan in  
9 Order 14261.

10 THE WITNESS: Our anticipation is that  
11 performance of these wells should be relatively  
12 consistent across them. So in our view, it should be  
13 relatively consistent.

14 **Q. (BY EXAMINER JONES) Okay. The effective length**  
15 **of -- the half length of your frac job on the 6H well,**  
16 **is that -- will that extend over into all 40-acre tracts**  
17 **within the 320 acres?**

18 A. No. No. We don't believe that we're going  
19 to -- we don't believe that a single well is going to  
20 have conductive -- although we might -- we might place  
21 fluid, we don't think you're going to have conductive,  
22 long-term fracture drainage from that far of a distance,  
23 like the 1,500 feet half length. It's not -- our model  
24 work would not suggest they be that large.

25 **Q. You won't drain the whole thing --**

1 A. No, sir.

2 Q. -- but you'll drain portions of it?

3 A. Yes, sir.

4 Q. And your half length on your frac job, you  
5 spaced -- you did the 150-foot heel and toe, so you must  
6 have an idea on the -- of the reach of that frac job.  
7 Is there a number you would like to throw out?

8 A. In terms of -- your asking what do we think our  
9 actual half lengths are?

10 Q. Yeah.

11 A. I mean, it depends on the area and -- you know,  
12 so we've seen differences depending on where you are in  
13 the field. I mean, in this area, we're certainly not  
14 expecting, you know, conductive half lengths that exceed  
15 5- or 600 feet. That's probably a very high estimate.

16 Q. Okay.

17 A. But frac modeling's definitely not an exact  
18 science --

19 Q. No.

20 A. -- either by any means.

21 Q. What model do you use?

22 A. We use GOHFER, as well as Mangrove.

23 Q. I've never heard of Mangrove.

24 A. It's a Schlumberger --

25 Q. They don't use Frac Aid [phonetic] anymore?

1           A.    Marathon hasn't used that one since I've been  
2 there, so I'm not familiar with it.

3           **Q.    It's been a while, I guess.**

4                       **But the 6H well is going to be drilled real**  
5 **close to the centerline?**

6           A.    Yes, sir. To the best of our ability, we're  
7 going to basically paint the centerline with the well.

8           **Q.    Do you know -- so is that well going to be**  
9 **drilled and the 19H well going to be drilled and fracked**  
10 **together? You said that earlier.**

11          A.    The way that we're going to do it -- our  
12 current plan with the completion engineers is that the  
13 TV 7H well and the WXY 19H well will be drilled -- will  
14 be fracked together first as a pair, get them fracked,  
15 and then we will come back and frac the WXY 3H and the  
16 WA 6H together as a pair, and then we will bring all  
17 four wells online together.

18          **Q.    Okay. And they're all -- okay. That sounds**  
19 **good. Thank you very much.**

20                       MS. BRADFUTE: We ask this case be taken  
21 under advisement.

22                       EXAMINER JONES: Any reasons not to?

23                       MR. RANKIN: No objection at this point.

24                       EXAMINER JONES: No objections at this  
25 point. Thank you-all.

1 Case Numbers 15906 and 15907 are taken  
2 under advisement.

3 (Case Numbers 15906 and 15907 conclude,  
4 3:26 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 13th day of February 2018.

21

22

23 MARY C. HANKINS, CCR, RPR  
24 Certified Court Reporter  
New Mexico CCR No. 20  
Date of CCR Expiration: 12/31/2018  
Paul Baca Professional Court Reporters

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