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, LLC TO RE-OPEN CASE NO. 15594 FOR A NONSTANDARD OIL SPACING AND PRORATION UNIT AND COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 15594 (Re-opened)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

November 30, 2017

Santa Fe, New Mexico

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

This matter came on for hearing before the New Mexico Oil Conservation Division, William V. Jones, Chief Examiner, and David K. Brooks, Legal Examiner, on Thursday, November 30, 2017, at the New Mexico Energy, Minerals and Natural Resources Department, Wendell Chino Building, 1220 South St. Francis Drive, Porter Hall, Room 102, Santa Fe, New Mexico.

REPORTED BY: Mary C. Hankins, CCR, RPR

New Mexico CCR #20

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2	FOR APPLICANT MARATHON OIL PERMIAN, LLC:	
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- 1 (10:37 a.m.)
- 2 EXAMINER JONES: Call Case 15594,
- 3 re-opened, application of Marathon Oil Permian, LLC to
- 4 re-open Case No. 15594 for a nonstandard oil spacing and
- 5 proration unit and compulsory pooling in Eddy County,
- 6 New Mexico.
- 7 Call for appearances.
- 8 MS. BRADFUTE: Mr. Examiner, Jennifer
- 9 Bradfute, with the Modrall Law Firm, on behalf of
- 10 Marathon.
- 11 EXAMINER JONES: Any other appearances?
- 12 There used to be -- there were appearances,
- 13 but they've dropped their --
- 14 MS. BRADFUTE: That's right. The Allar
- 15 Company entered an appearance in the case, A-L-L-A-R,
- 16 and the dispute between the parties was resolved.
- 17 EXAMINER JONES: And they were represented
- 18 by Bardinian -- Rob Bardinian [phonetic]?
- 19 MS. BRADFUTE: Yes. That is correct,
- 20 Thompson & Knight, LLP of Fort Worth. And he had sent
- 21 an email in to the Division previously letting you know
- 22 the dispute had been resolved.
- 23 EXAMINER JONES: Will the witnesses please
- 24 stand and the court reporter swear the witnesses?
- 25 (Mr. Tate and Mr. Keren sworn.)

1 MS. BRADFUTE: Mr. Examiner, I'll call my

- 2 first witness.
- 3 And before I begin questioning, I'd like to
- 4 state why we're re-opening this case.
- 5 EXAMINER BROOKS: I was going to suggest
- 6 you do that.
- 7 MS. BRADFUTE: Thank you, Mr. Brooks.
- 8 Marathon has asked to re-open this case for
- 9 a few different reasons. This matter involves a
- 10 480-acre spacing unit within the Purple Sage; Wolfcamp
- 11 Gas Pool, and we found some notification defects in the
- 12 original order, parties who were left out of one of the
- 13 320 -- well, would have been one of the 320-acre spacing
- 14 units that weren't notified. And so Marathon provided
- 15 notice to all of the mineral interest owners in that
- 16 portion of the spacing unit.
- 17 In addition, we found some additional
- 18 interest owners who had not executed JOAs who needed to
- 19 be notified and pooled. And then there is a
- 20 wellbore-specific JOA that was at issue in the original
- 21 pooling case for the 2H well. There are certain parties
- 22 to a subsequent well that's going to be drilled in the
- 23 spacing unit, the 1H well, who have not signed a JOA for
- 24 that 1H well, so their interests need to be pooled as
- 25 well.

1 At this time I'd like to begin questioning

- 2 of our first witness.
- 3 MATT S. TATE,
- 4 after having been previously sworn under oath, was
- 5 questioned and testified as follows:
- 6 DIRECT EXAMINATION
- 7 BY MS. BRADFUTE:
- 8 Q. Please state your name for the record.
- 9 A. Yes, ma'am. Matt Tate.
- 10 Q. And, Mr. Tate, who do you work for?
- 11 A. I work for Marathon Oil Company as a landman.
- 12 Q. And what are your responsibilities as a
- 13 landman?
- 14 A. My responsibilities include determining mineral
- 15 and working interest ownership under certain lands
- 16 located in Eddy County, New Mexico.
- Q. And, Mr. Tate, have you previously testified
- 18 before the Division?
- 19 A. No, I have not.
- Q. Could you please explain your educational
- 21 background to the Hearing Examiners?
- 22 A. Yes. I attended Texas Tech University and
- 23 received a degree in petroleum land management.
- 24 Q. And could you please explain your professional
- 25 background?

1 A. Yes. I worked for Southwestern Energy for

- 2 seven years as a landman, and I've been with Marathon
- 3 for six years working as a landman.
- 4 Q. And do you hold any professional
- 5 certifications?
- 6 A. I'm a CPL from the AAPL.
- 7 Q. And does your area of responsibility at
- 8 Marathon include the area of Eddy County in New Mexico?
- 9 A. Yes, it does.
- 10 Q. And are you familiar with the application
- 11 that's been filed by Marathon in this case?
- 12 A. Yes, ma'am.
- 13 Q. And are you familiar with the status of the
- 14 lands which are the subject matter of this application?
- 15 A. Yes.
- 16 MS. BRADFUTE: At this point in time, I'd
- 17 like to tender Mr. Tate as an expert in land matters.
- 18 EXAMINER JONES: Do you work with Randy
- 19 Wilson?
- 20 THE WITNESS: Yes, sir. I sure do. Great
- 21 guy.
- 22 EXAMINER JONES: So qualified.
- 23 (Laughter.)
- Q. (BY MS. BRADFUTE) Mr. Tate, could you please
- 25 turn to what's been marked as Exhibit 1 in the notebook

1 in front of you and briefly explain what this document

- is to the Hearing Examiner?
- A. Yes, ma'am. Marathon seeks an order from the
- 4 Division creating a 480-acre nonstandard spacing unit
- 5 covering the southeast quarter of Section 25 in the east
- 6 half of Section 36, Township 24 South, Range 28 East,
- 7 Eddy County, New Mexico, and compulsory pooling of
- 8 certain uncommitted working interests within the spacing
- 9 unit.
- 10 Q. And did Marathon recently acquire this acreage
- 11 from BC Operating?
- 12 A. Yes, we did.
- 13 Q. And had BC Operating previously applied for a
- 14 nonstandard proration unit and compulsory pooling?
- 15 A. Yes. It was originally heard at hearing on
- 16 February 2nd, 2017 and an order was issued on May 15th,
- 17 2017.
- 18 Q. Okay. So why is Marathon seeking to re-open
- 19 this matter?
- 20 A. There were certain working interest owners
- 21 within the spacing unit that did not receive notice of
- 22 the application prior to the hearing. There were also
- 23 interest owners in the offsetting quarter sections
- 24 located in the northeast quarter of Section 25 and the
- 25 southwest quarter of Section 25 that also did not

- 1 receive notice of the application prior to hearing.
- 2 And then after the order was issued in May,
- 3 BC provided a wellbore-specific JOA as to the Southern
- 4 Comfort 2H only, which was signed by certain working
- 5 interest owners within the spacing unit.
- 6 Q. Could you please turn to what's been marked as
- 7 Exhibit Number 2 in your notebook and explain -- this is
- 8 a two-page document. Could you please explain what the
- 9 first page is?
- 10 A. Yes, ma'am. This is the C-102 for the Southern
- 11 Comfort 25-36 State X 2 well with a surface-hole
- 12 location in the northeast quarter of the southeast
- 13 quarter of Section 25 and a bottom-hole location in the
- 14 southeast quarter of the southeast quarter of Section 26
- 15 for development of the 480-acre spacing unit.
- 16 Q. And would you please turn to the second page of
- 17 this exhibit and explain what this document is?
- 18 A. Yes. This is the C-102 for the
- 19 Southern-Comfort 25-36 State X 1H well with a
- 20 surface-hole location in the northwest quarter of the
- 21 southeast quarter of Section 25 and a bottom-hole
- location in the southwest quarter of the southeast
- 23 quarter of Section 36, Township 24 South, Range 28 East,
- 24 Eddy County, New Mexico.
- 25 Q. And have these wells already been drilled by

- 1 Marathon?
- 2 A. Yes, ma'am. They have.
- Q. And has the Division identified a pool and the
- 4 pool code for the wells?
- 5 A. Yes. It's the Purple Sage; Wolfcamp Gas.
- 6 Q. And is that pool governed by special pool rules
- 7 that have been issued by the Division?
- 8 A. Yes, ma'am.
- 9 Q. And do those pool rules provide for 330-foot
- 10 setbacks?
- 11 A. Yes, they do.
- 12 Q. And will each of these wells comply with that
- 13 setback requirements?
- 14 A. Yes, they will.
- 15 Q. Can you please turn to what's been marked as
- 16 Exhibit Number 3 in the notebook in front of you and
- 17 explain what that document is to the Hearing Examiners?
- 18 A. Yes. This is a lease tract map covering the
- 19 480-acre nonstandard spacing unit. It's comprised of
- 20 three separate state leases each covering 160 net acres.
- 21 There are approximately 11 percent uncommitted working
- 22 interests under Tract 1, approximately 1 percent under
- 23 Tract 2, and approximately 13 percent under Tract 3.
- Q. What kind of interests do you seek to pool in
- 25 this case?

1 A. We are seeking to pool uncommitted working

- 2 interests.
- Q. Okay. Can you please turn to Exhibit Number 4
- 4 and walk the Hearing Examiners through this exhibit?
- 5 A. Yes. This is the summary of interests
- 6 identifying the committed working interests at this
- 7 time, as well as the uncommitted working interests
- 8 within the spacing unit, and there are no unleased
- 9 mineral interests within the spacing unit.
- 10 Q. And there is a section on this document called
- "Uncommitted" -- "Uncommitted Working Interest"; is that
- 12 correct?
- 13 A. Yes, ma'am.
- 14 Q. Some of the parties are shown in red font?
- 15 A. Yes.
- 16 Q. Why is the red font being used?
- 17 A. This is identifying the parties that were
- 18 provided a wellbore-specific JOA for the Southern
- 19 Comfort 2H, and those parties did sign and return that
- 20 JOA.
- Q. But just for that particular well, correct?
- 22 A. Yes, ma'am.
- 23 Q. And so their interests need to be pooled for
- 24 the development of the 1H well?
- 25 A. Yes. They sure do.

1 Q. Did Marathon identify affected parties in the

- 2 offset acreage involved?
- 3 A. Yes, we did.
- 4 Q. And was notice provided of this application to
- 5 those parties?
- 6 A. Yes, ma'am. Notice was provided to all working
- 7 interests, unleased interests, mineral interest owners
- 8 and overriding royalty owners.
- 9 Q. And did Marathon identify mineral interest
- 10 owners to be excluded from any proration units created
- 11 through the 480-acre spacing unit?
- 12 A. Yes, we did.
- 13 Q. And was notice provided to those mineral
- 14 interest owners?
- 15 A. Yes, ma'am.
- 16 Q. Could you please summarize to the Hearing
- 17 Examiners what efforts you made to obtain voluntary
- 18 pooling of the interests?
- 19 A. Yes. We have provided a well-proposal letter
- 20 and AFE, along with the JOA covering our 480-acre
- 21 spacing unit to all uncommitted working interest owners.
- 22 In addition, we've made offers to acquire the interest
- of certain uncommitted working interest owners listed on
- 24 Exhibit 4.
- Q. And in your opinion, has Marathon made a

1 good-faith effort to obtain voluntary joinder in the

- 2 unit?
- 3 A. Yes, ma'am.
- 4 Q. Could you please turn to what's been marked as
- 5 Exhibit Number 5? And this exhibit has several pages.
- 6 Could you please explain what the first page -- first
- 7 and second page is to the Hearing Examiners?
- 8 A. The first page is the well-proposal letter that
- 9 was provided for the Southern Comfort 2H.
- 10 Q. If you look at the third page and fourth page,
- 11 could you identify what these documents are?
- 12 A. Yes. This is the AFE provided to those owners
- 13 for the Southern Comfort 2H.
- 14 Q. And if you look at the fifth and sixth pages,
- 15 could you identify what these documents are?
- 16 A. Yes. This is a copy of the well-proposal
- 17 letter provided to the uncommitted and committed working
- interest owners for the Southern Comfort 1H.
- 19 Q. And if you look at the last two pages of this
- 20 exhibit, can you identify what those documents are?
- 21 A. This is the AFE provided to those owners for
- 22 the Southern Comfort 1H.
- Q. Could you please tell the Hearing Examiners
- 24 what the costs for drilling and completing each well
- 25 **are?**

- 1 A. Yes. The total costs on the AFE for the
- 2 Southern Comfort 2H is \$8,699,628. Actual cost to drill
- 3 and complete that well is 8.77 million. The total cost
- 4 to drill and complete the Southern Comfort 1H reflected
- 5 on the AFE is \$8,665,068. The actual cost to drill and
- 6 complete that well was 8.7 million.
- 7 Q. And those wells were only recently completed,
- 8 correct?
- 9 A. Yes, ma'am.
- 10 O. And are those costs in line with the costs for
- 11 other horizontal wells that are drilled to this length
- 12 and this depth within this area of New Mexico?
- 13 A. Yes.
- 14 Q. And who should be appointed operator of both of
- 15 these wells?
- 16 A. Marathon Oil Permian, LLC.
- Q. And do you have a recommendation for the amount
- 18 which Marathon should be paid for supervision and
- 19 administrative expenses?
- A. \$7,000 for a drilling well per month and \$700
- 21 per month for a producing well.
- 22 Q. And are these amounts equivalent to those
- 23 normally charged by Marathon and other operators within
- 24 this area for horizontal wells drilled to this length
- 25 and this depth?

- 1 A. Yes.
- Q. Do you request that these rates be adjusted
- 3 periodically provided for under the COPAS accounting
- 4 procedure?
- 5 A. Yes.
- 6 Q. And does Marathon request a maximum cost plus
- 7 200 percent risk charge if any pooled working interest
- 8 owner fails to pay its share of costs for drilling,
- 9 completing and equipping the wells?
- 10 A. Yes, we do.
- 11 Q. Were the parties that you're seeking to pool
- 12 notified of this hearing?
- 13 A. Yes, ma'am.
- 14 Q. Could you please turn to what's been marked as
- 15 Exhibit Number 6? Is this exhibit an affidavit that was
- 16 completed by your counsel confirming that notification
- was given to affected parties?
- 18 A. Yes, it is.
- 19 Q. And if you look at the very last page of this
- 20 exhibit, is this an Affidavit of Publication showing
- 21 that notice was also published in a newspaper of general
- 22 circulation?
- A. Yes, ma'am.
- Q. Were Exhibits 1 through 6 prepared by you or
- 25 under your supervision or compiled from company business

- 1 records?
- 2 A. Yes.
- MS. BRADFUTE: I'd like to admit Exhibits 1
- 4 through 6 into the record.
- 5 EXAMINER JONES: Exhibits 1 through 6 are
- 6 admitted.
- 7 (Marathon Oil Permian, LLC Exhibit Numbers
- 8 1 through 6 are offered and admitted into
- 9 evidence.)
- 10 Q. (BY MS. BRADFUTE) Mr. Tate, is the granting of
- 11 this application in the interest of conservation and the
- 12 prevention of waste?
- 13 A. Yes.
- 14 Q. Thank you.
- 15 EXAMINER JONES: Okay. Mr. Brooks?
- 16 CROSS-EXAMINATION
- 17 BY EXAMINER BROOKS:
- 18 Q. Are there some parties that you sent notices
- 19 to -- certified-mail notices to from whom you did not
- 20 receive receipts -- return receipts?
- 21 A. Yes, sir. We did receive -- some were
- 22 returned. For those that were returned, we exhausted
- 23 all efforts to locate those either through Internet
- 24 searches, as well as LexisNexis search to try to locate
- 25 any kind of address for those owners.

1 Q. And were those owners that you were not able

- obtain a better address, they were included in the
- 3 publication notice?
- 4 A. Yes, sir.
- 5 Q. Okay. I think that covers all the bases on
- 6 notice. Thank you.
- 7 A. Yes, sir.
- 8 CROSS-EXAMINATION
- 9 BY EXAMINER JONES:
- 10 Q. As far as noticing for the nonstandard
- 11 proration -- actually -- you're actually forming -- for
- 12 the left-out people in the southeast of 25 and the
- 13 northeast of -- southwest of 25, northeast of 25, where
- 14 are those lists of people? You have a list of them,
- 15 don't you?
- 16 A. They would be -- yes, sir.
- 17 Q. Number 9; is that correct? There is a whole
- 18 big list. I assume that's it.
- 19 MS. BRADFUTE: Yes. There is a section,
- 20 Will, that starts with "Offsets" that's listed in that
- 21 chart, and there is a long list of offsets that's going
- 22 to include those mineral interest owners left out of the
- 23 proration unit.
- 24 Q. (BY EXAMINER JONES) Okay. And the red on
- 25 Exhibit 4, one more time -- I'm sorry. You covered it.

1 This is probably the third time, but tell me one more

- 2 time.
- 3 A. The parties identified in red received a
- 4 wellbore-specific JOA and signed and returned that.
- 5 Q. But not -- so they've already --
- 6 MS. BRADFUTE: There are two wells. There
- 7 is the 2H, which was drilled before the 1H. And the 2H,
- 8 people signed a wellbore-specific JOA, but they didn't
- 9 sign any JOA which covers the 1H.
- 10 Q. (BY EXAMINER JONES) Oh. So wellbore-specific
- 11 JOA, they did sign these people in red?
- 12 A. Yes, sir. They originally compulsory pooled
- 13 and executed the wellbore-specific JOA, which would
- 14 cause their interest to fall out of the original pooling
- 15 order.
- 16 Q. Oh, okay.
- 17 So the second well that is going to be
- 18 drilled is the 1H then, correct?
- 19 MS. BRADFUTE: The 1H, yeah. And so those
- 20 interests in red need to be pooled for the 1H.
- 21 EXAMINER JONES: For the 1H. Okay. Still
- 22 poolable.
- Okay. We've got it in the record several
- 24 times here, so I guess that's all I have.

25

1 RECROSS EXAMINATION

- 2 BY EXAMINER BROOKS:
- 3 Q. Let me go back and ask and be sure I've covered
- 4 these things. Mr. Jones asked you a question, and I
- 5 didn't follow the answer. It was a pertinent question.
- 6 That is: Where is your listing of the parties that were
- 7 notified as mineral owners in the offset tracts in the
- 8 section where you include the 160-acre --
- 9 MS. BRADFUTE: David, they're going to be
- 10 listed as offsets. We didn't complete a separate chart,
- 11 but there is a chart of notice.
- 12 EXAMINER BROOKS: Yeah. I saw the chart of
- 13 notice, and I see that it has -- it starts out with --
- 14 well, no. It's pooled parties. Now, why does it --
- 15 MS. BRADFUTE: "Pooled parties and
- 16 offsets." It starts about four pages in. Let me find
- 17 it. It starts on the fourth page, about a quarter of
- 18 the way down right before Judah Oil (indicating).
- 19 EXAMINER BROOKS: Oh, okay. And the
- 20 offsets includes those people in the -- that were left
- 21 out of the half sections?
- MS. BRADFUTE: Uh-huh. Yes, it does.
- 23 EXAMINER BROOKS: Okay. I went through the
- 24 matter of people that did not return return receipts,
- 25 but are there any -- any people whom you -- whom you

1 want to notify for whom you did not have an address at

- 2 all?
- MS. BRADFUTE: No, there wasn't.
- 4 EXAMINER BROOKS: Very good. I think I've
- 5 covered everything. Thank you.
- 6 THE WITNESS: Yes, sir. Thank you.
- 7 MS. BRADFUTE: I would like to call my
- 8 second witness.
- 9 TUCKER KEREN,
- 10 after having been previously sworn under oath, was
- 11 questioned and testified as follows:
- 12 DIRECT EXAMINATION
- 13 BY MS. BRADFUTE:
- Q. Could you please state your name for the
- 15 record?
- 16 A. Tucker Keren.
- 17 Q. Mr. Keren, who do you work for?
- 18 A. I work for Marathon Oil.
- 19 Q. And, Mr. Keren, what are your responsibilities
- 20 at Marathon?
- 21 A. I'm geologist responsible for several
- 22 properties in Eddy County, New Mexico.
- 23 Q. And have you previously testified before the
- 24 Division?
- 25 A. I have not.

1 Q. Could you please explain your educational

- 2 background to the Hearing Examiners?
- A. I have a bachelor's degree from Hamilton
- 4 College and a Master of Science in geoscience from
- 5 Colorado State University.
- 6 Q. And can you please explain your work history?
- 7 A. I've been employed by Marathon as a geologist
- 8 for two-and-a-half years.
- 9 Q. And are you a member of any professional
- 10 organizations?
- 11 A. Yes. I'm a member of the American Association
- 12 of Petroleum Geologists.
- 13 Q. Are you familiar with the application that's
- 14 been filed in this matter?
- 15 A. I am.
- 16 Q. And are you familiar with the status of the
- 17 lands which are the subject matter of the application?
- 18 A. I am.
- 19 Q. Are you familiar with the drilling plan for the
- 20 wells at issue?
- 21 A. Yes.
- 22 Q. And have you conducted a geologic study of the
- area for the proposed spacing for the wells?
- 24 A. Yes.
- 25 MS. BRADFUTE: Mr. Examiner, I'd like to

1 tender Mr. Keren as an expert witness in geology

- 2 matters.
- 3 EXAMINER JONES: He is so qualified.
- We spell his name K-E-R-E-N, correct?
- 5 MS. BRADFUTE: Yes.
- THE WITNESS: (Indicating.)
- 7 Q. (BY MS. BRADFUTE) Mr. Keren, what is the
- 8 targeted interval for the wells?
- 9 A. The targeted interval is the Wolfcamp Formation
- 10 and more specifically the Upper Wolfcamp X and Y sands.
- 11 Q. Could you please turn to what's been marked as
- 12 Exhibit Number 7 in the notebook in front of you and
- explain what this document is to the Hearing Examiners?
- 14 A. This document is a structure map on the top of
- 15 the Wolfcamp. It's in subsea depth, and it is showing
- 16 where the project area and Marathon's acreage sit with
- 17 respect to the Wolfcamp structure in this area.
- 18 As you can see, the project area outlined
- in the dashed black line sits approximately oriented
- 20 along strike of the Wolfcamp Formation here, and the dip
- 21 direction is down to the east, noted by the warmer
- 22 colors increasing towards the east.
- This map is also showing the location of
- 24 adjacent producing wells from the same formation, that
- 25 Upper Wolfcamp X-Y sand zone, as well as the locations

of the Southern Comfort 1H and 2H wells of today's

- 2 hearing.
- Q. And when you were compiling this structure map,
- 4 did you notice anything structurally that would
- 5 interfere with the contribution of the acreage for these
- 6 proposed wells?
- 7 A. I did not.
- 8 Q. Did you also prepare a cross section on the
- 9 logs to determine the relative thickness and porosity of
- 10 the Wolfcamp Formation in the area?
- 11 A. Yes. And that cross section is noted on this
- 12 structure map. It's from A to A prime going from the
- 13 southeast to the northwest and labeled with the three
- 14 wells that I've selected to include in that cross
- 15 section.
- 16 Q. Could you please turn to what's been marked as
- 17 Exhibit Number 8 and explain what this document is to
- 18 the Hearing Examiners and then walk them through that?
- 19 A. This is a stratigraphic cross section showing
- 20 the Upper Wolfcamp zone that we are producing from, and
- 21 it is hung on the datum of the top of the Wolfcamp
- 22 Formation labeled with the alias WFMP. And what this is
- 23 showing is the relative consistency in sand body
- 24 thickness and style in the log character across these
- 25 three wells which bound the project area.

1 You're looking at, on the left, the gamma

- 2 ray, and then as you move right, your total vertical
- depth, then your resistivity logs and then your porosity
- 4 logs on the far right there.
- 5 I've also highlighted the producing zone
- 6 where this -- both Southern Comfort wells were landed.
- 7 Q. And are the wells that you selected to include
- 8 within this cross section representative of the Wolfcamp
- 9 Formation within the area?
- 10 A. Yes, they are.
- 11 Q. And what does your cross section show you about
- 12 the acreage that's proposed to be dedicated to these
- 13 wells?
- 14 A. This shows that there is lateral consistency in
- 15 the character of this Wolfcamp Y Sand as the producing
- 16 zone.
- 17 Q. Could you please turn to what's been marked as
- 18 Exhibit Number 9 and explain what this exhibit is to the
- 19 Hearing Examiners?
- 20 A. This exhibit is a map of the -- isopach map of
- 21 the thickness of that Wolfcamp Y Sand-producing zone,
- 22 and I've labeled 10-foot contours on this map, as well
- as, once again, the adjacent producing wells producing
- 24 from that same zone. What you can see is that in the
- 25 project area for the Southern Comfort wells, we sit

- 1 favorably in a -- in a relatively thick section of
- 2 this -- of this sand body, as well as it is consistent
- 3 across the length of these laterals. We would -- we
- 4 would equate this to something similar to a net pay map,
- 5 as we believe the entire sand is considered pay.
- 6 Q. What conclusions have you drawn from your
- 7 geologic study of the area?
- 8 A. That this Southern Comfort project area and
- 9 these two horizontal wells are sitting favorably in a
- 10 very prospective area for the Wolfcamp Y Sand.
- 11 Q. And did you notice any impediments to
- 12 horizontal development?
- 13 A. I did not, no.
- 14 Q. And will each quarter-quarter section be
- productive in the Wolfcamp Formation?
- 16 A. Yes.
- 17 Q. And will each quarter tract or quarter-quarter
- 18 section contribute approximately equally to the
- 19 production from each well?
- 20 A. Yes.
- 21 Q. Could you please turn to what's been marked as
- 22 Exhibit Number 10? And this is a two-page document, and
- just walk the Hearing Examiners through what each page
- 24 is.
- 25 A. Sure. These are the as-drilled wellbore

1 diagrams for the Southern Comfort 1H and 2H laterals,

- 2 and these were prepared by the directional survey
- 3 companies that were contacted by Marathon on these jobs.
- 4 And there is a lot of information on these figures.
- 5 What I'm really trying to show here is that for the 1H
- 6 well, the well was drilled vertically to a target depth
- 7 of approximately 9,702 TVD and then laterally along
- 8 strike for a mile and a half.
- 9 On the 2H, we drilled vertically down to a
- 10 target TVD of approximately 9,755 feet total vertical
- 11 depth and then, once again, laterally along strike for a
- 12 mile and a half.
- 13 Q. And in your opinion, will the granting of
- 14 Marathon's application be in the best interest of
- 15 conservation, the prevention of waste and the protection
- of correlative rights?
- 17 A. Yes.
- 18 Q. Were Exhibits 7 through 10 prepared by you or
- 19 compiled under your direction and supervision?
- 20 A. Yes.
- MS. BRADFUTE: I'd like to move to admit
- 22 Exhibits 7 through 10 into the record.
- 23 EXAMINER JONES: Exhibits 7 through 10 are
- 24 admitted.
- 25 (Marathon Oil Permian, LLC Exhibit Numbers

1 7 through 10 are offered and admitted into

- 2 evidence.)
- MS. BRADFUTE: Thank you.
- 4 EXAMINER JONES: Mr. Brooks?
- 5 EXAMINER BROOKS: No questions.
- 6 EXAMINER JONES: I probably don't either.
- 7 CROSS-EXAMINATION
- 8 BY EXAMINER JONES:
- 9 Q. You said X-Y sand, but then I see the target is
- 10 the Y.
- 11 A. That's the landing zone, in the Y.
- 12 Q. And the X is above that?
- 13 A. Correct.
- 14 Q. So is that nomenclature that is commonly used
- 15 out here, or is it --
- 16 A. In Eddy County, yes. Some operators choose to
- 17 call X and Y, you know, different than we do. Some will
- 18 call it Y, then X. But it is typically known as the X-Y
- 19 sands.
- Q. Okay. So a lot of -- I've heard geologists say
- 21 there are a lot of things that happened during the
- 22 Wolfcamp time out here. So was there some kind of --
- 23 can you go over it real quickly, just the sequence of
- 24 the stratigraphy here?
- 25 A. Yeah. I mean, this would be late in the -- in

- 1 the Wolfcampian and late in the Wolfcamp Formation
- 2 deposition. But these X and Y sands are -- are record
- 3 of turbidite deposits. That's the common model, that
- 4 they're deposited in channels that are forming off of
- 5 the -- coming off of the Northwest Shelf.
- 6 Q. Okay. Okay. I don't really have any more
- 7 questions.
- 8 You just want to drill it from the north to
- 9 the south, and the drilling direction is favorable
- 10 rather than drilling an east-west well?
- 11 A. In this area, based on the stress orientations,
- 12 we believe that east-west and north-south are equally
- 13 favorable for -- or for completion.
- Q. Oh. So you could have drilled them east-west?
- 15 A. Other operators have drilled east-west in this
- 16 area.
- Q. Okay. So did you pick this zone to drill in?
- 18 A. Yes.
- 19 Q. Okay. And why a mile and a half and not a
- 20 mile-long well?
- 21 A. We've seen better production from
- 22 mile-and-a-half-long laterals and more efficient
- 23 development of the area that way.
- 24 Q. Have you heard any talk about increased risk of
- 25 failure getting out that far?

- 1 A. I have not, no.
- 2 Q. So everybody's pretty confident that they can
- 3 drill and complete 17,000 feet in a well?
- 4 A. Yes.
- 5 Q. Thanks very much.
- 6 MS. BRADFUTE: Mr. Examiner, that concludes
- 7 the witnesses that I have today. I ask this case be
- 8 taken under advisement.
- 9 EXAMINER JONES: Okay. Case Number 15594
- 10 is taken under advisement.
- 11 (Case Number 15594 concludes, 11:05 a.m.)
- 12 EXAMINER JONES: And let's take a
- 13 ten-minute break.
- 14 (Recess, 11:05 a.m. to 11:20 a.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.
- 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.
- I FURTHER CERTIFY that I am neither
- 17 employed by nor related to any of the parties or
- 18 attorneys in this case and that I have no interest in
- 19 the final disposition of this case.

20

21

MARY C. HANKINS, CCR, RPR

22 Certified Court Reporter
New Mexico CCR No. 20

Date of CCR Expiration: 12/31/2017

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