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 OXY USA, INC. CASE NO. 15540 FOR APPROVAL OF SURFACE POOL-LEASE COMMINGLING, OFF-LEASE STORAGE, AND OFF-LEASE MEASUREMENT, EDDY COUNTY, NEW MEXICO. REPORTER'S TRANSCRIPT OF PROCEEDINGS EXAMINER HEARING September 15, 2016 Santa Fe, New Mexico BEFORE: WILLIAM V. JONES, CHIEF EXAMINER PHILLIP GOETZE, TECHNICAL EXAMINER GABRIEL WADE, LEGAL EXAMINER This matter came on for hearing before the New Mexico Oil Conservation Division, William V. Jones, Chief Examiner, Phillip Goetze, Technical Examiner, and Gabriel Wade, Legal Examiner, on Thursday, September 15, 2016, 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 Paul Baca Professional Court Reporters 500 4th Street, Northwest, Suite 105 Albuquerque, New Mexico 87102 (505) 843-9241

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                             APPEARANCES
     FOR APPLICANT OXY USA, INC.:
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 3
          JORDAN L. KESSLER, ESO.
          HOLLAND & HART
          110 North Guadalupe, Suite 1
 4
          Santa Fe, New Mexico 87501
          (505) 988-4421
 5
          jlkessler@hollandhart.com
 6
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Page 3 (8:54 a.m.) 1 2 EXAMINER GOETZE: We are back on the record, and this is Case Number 15540, application of 3 4 OXY USA, Inc. for approval of surface pool-lease commingling, off-lease storage and off-lease 5 measurement, Eddy County, New Mexico. 6 Call for appearances. 7 8 MS. KESSLER: Mr. Examiners, Jordan Kessler, from the Santa Fe office of Holland & Hart, on 9 behalf of the Applicant. 10 11 EXAMINER GOETZE: Very good. 12 Any other appearances? At this point we'll make note for the 13 record that Mr. Will Jones has joined us. He heard this 14 case and will be the lead examiner for this case. 15 16 Please proceed. 17 MS. KESSLER: I have three witnesses today, Mr. Examiners. 18 EXAMINER JONES: Will the witnesses please 19 stand? 20 21 And will the court reporter please swear the witnesses? 22 23 (Mr. Murphrey, Mr. Fournier and Mr. Tysor 24 sworn.) 25

	Page 4
1	JEREMY MURPHREY,
2	after having been first duly sworn under oath, was
3	questioned and testified as follows:
4	MS. KESSLER: May I proceed?
5	EXAMINER JONES: Yes.
б	DIRECT EXAMINATION
7	BY MS. KESSLER:
8	Q. Please state your name for the record and tell
9	the Examiners where you're employed and in what
10	capacity.
11	A. My name is Jeremy Murphrey. I'm a senior land
12	negotiator for OXY USA, Inc.
13	Q. Have you previously testified before the
14	Division?
15	A. Yes, I have.
16	Q. Were your credentials as an expert in petroleum
17	land matters accepted and made a matter of record?
18	A. Yes, they were.
19	Q. Are you familiar with the commingling
20	application resulting in this hearing?
21	A. Yes, I am.
22	Q. Are you familiar with the status of the lands
23	in the subject areas?
24	A. Yes, ma'am.
25	MS. KESSLER: Mr. Examiners, I'd tender

Page 5 Mr. Murphrey as an expert in petroleum land matters. 1 2 EXAMINER JONES: He's qualified as an 3 expert in petroleum land matters. (BY MS. KESSLER) Mr. Murphrey, please turn to 4 Ο. Exhibit 1 and briefly summarize what OXY seeks under 5 this application. 6 7 Α. We seek to -- or we're requesting approval for pool and lease commingling of certain leases and spacing 8 units located in Sections 22 and 23 of Township 24 9 South, Range 29 East. That will be in Eddy County, New 10 Additionally, we request approval of 11 Mexico. measurement of well tests -- or based on well tests. 12 Are you also seeking to include future wells 13 0. and leases that have been identified in this 14 application? 15 16 Yes, ma'am. Α. 17 0. And are you requesting approval for off-lease storage and measurement of facilities that would be 18 located in the north half of the south half of Section 19 22? 20 21 Yes, ma'am. Α. Is Exhibit 1 an overview of this area? 22 Q. 23 That's correct. Α. 24 And has OXY brought a facilities engineer and a 0. reservoir engineer to discuss the technical aspects of 25

Page 6 OXY's requested measurement by the well-test method? 1 2 Α. We have. Let's look at Exhibit 2. Does this show, on 3 0. page 1, the leases and wells that are the subject of 4 this application? 5 Yes, it does. 6 Α. 7 It looks like there are seven spacing units 0. identified here. Do four of these spacing units have 8 9 diverse ownership? Yes, they do. 10 Α. We'll discuss that in greater detail. 11 Ο. Does this also show eight wells? 12 Yes, ma'am. 13 Α. 14 And two of those wells, I understand, are Ο. producing; is that correct? 15 That is correct. 16 Α. 17 Q. And six of them are proposed? Yes, ma'am. 18 Α. What two pools are the wells currently 19 0. producing from? 20 The pools will be the Pierce Crossing; Bone 21 Α. Spring East Pool and the Corral Draw Bone Spring Pool. 22 That would be leases -- excuse me -- pools 23 0. 24 96473 and 96238? 25 That's correct. Α.

Page 7 How many federal leases are involved? Ο. 1 There will be four federal leases. 2 Α. And does page 2 of this exhibit contain a legal 3 Ο. 4 description of the proposed spacing units and wells, which I'll refer to as leases pursuant to the 5 6 Division-designated term, that are the subject of this 7 application? Α. It does. 8 9 And does this page reflect that the spacing Ο. unit located in the south half-south half of Section 23 10 or the southwest quarter of Section 24 also be included 11 in this application? 12 We do. 13 Α. 14 Ο. Is Exhibit 3 a C-107B for diverse ownership that was filed administratively on June 30th of 2016? 15 That's correct. 16 Α. 17 EXAMINER JONES: I'm sorry. Can you go back? You said -- you asked for something to also be 18 included in this application. Is that not listed in the 19 application? 20 MS. KESSLER: It is listed in this 21 22 application. It just doesn't have any produced or 23 proposed wells, so I wanted to draw attention --24 EXAMINER JONES: But the acreage is described? 25

	Page 8
1	MS. KESSLER: That's correct.
2	EXAMINER JONES: Okay.
3	Q. (BY MS. KESSLER) So does Exhibit 3, the C-107B,
4	describe OXY's proposal to do the well-test method to
5	measurement?
6	A. Yes, it does.
7	Q. Were any protests received for this
8	application?
9	A. No, ma'am.
10	Q. And why was this application set for hearing?
11	A. Due to the well-test method, it was requested
12	that our application come up for hearing.
13	Q. Does this C-107B include C-102s for either of
14	the wells either producing or proposed?
15	A. Yes, it does.
16	Q. Turning to Exhibit 4, does this exhibit show
17	ownership broken down by lease?
18	A. It does. It shows the working interest
19	override and the royalty interest of the leases, as well
20	as the well names.
21	Q. And you mention that ownership between each of
22	the four leases is diverse, is that correct
23	A. Correct.
24	Q of the different ownership?
25	A. Yes, ma'am.

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1	Q. Were each of the interest owners provided	
2	notice of the administrative application that was filed	
3	with the Division?	
4	A. Yes, ma'am.	
5	Q. And were they also provided notice when the	
6	application for hearing was filed with the Division?	
7	A. Yes, ma'am.	
8	Q. And no protests were received, correct?	
9	A. No protests were received.	
10	Q. And Exhibit 5, is this a list showing the	
11	federal lease API number and the locations of the	
12	producing and proposed wells?	
13	A. Yes, ma'am.	
14	Q. It also shows the producing pool?	
15	A. That's correct.	
16	Q. And for wells that have been drilled, this also	
17	shows production information, correct?	
18	A. Yes, ma'am.	
19	Q. Is Exhibit 6 an affidavit from Holland & Hart	
20	with attached letter providing notice for all of the	
21	interest owners in each of the leases?	
22	A. Yes, ma'am.	
23	Q. And that would be notice of this hearing,	
24	correct?	
25	A. That's correct.	

Page 10 And is Exhibit 7 a Notice of Publication Ο. 1 2 directed to these same interest owners, providing them notice of this hearing? 3 Α. Yes, it is. 4 5 Were Exhibits 1 through 5 prepared by you or 0. compiled under your direction and supervision? 6 7 Α. Yes, ma'am. MS. KESSLER: Mr. Examiners, I'd move 8 admission of Exhibits 1 through 7, which includes our 9 affidavits. 10 EXAMINER JONES: Exhibits 1 through 7 are 11 admitted. 12 (OXY USA, Inc. Exhibit Numbers 1 through 7 13 14 are offered and admitted into evidence.) 15 CROSS-EXAMINATION BY EXAMINER JONES: 16 17 0. So there are seven -- seven drilling units involved? 18 Yes, sir. 19 Α. And they're roughly 160 acres? 20 Q. 160 with, I believe, two 40s. 21 Α. Okay. So two of them are mile-and-a-half 22 Q. wells? 23 24 Α. That's correct. 25 And four of them are diverse. Are you Q.

Page 11 estimating four of them will be diverse, or you already 1 2 know they're going to be diverse? Yes, sir, either diverse by working interest or 3 Α. by the NRIs -- or overrides. I'm sorry. 4 Okay. Are any of them going to be subject to 5 0. compulsory pooling? 6 7 Α. No, sir. Everybody signed up --8 Ο. 9 Yes, sir. Α. 10 -- already? Ο. You'll be making an application to the 11 Feds, too, or are you going to just go by the onshore 12 orders in effect for the Feds for service commingling 13 here? In other words, the Feds didn't object to this 14 proceeding at all? 15 That's correct, Mr. Examiner. 16 MS. KESSLER: I believe the concurrent application will be -- has or 17 will be made with the BLM, and they --18 EXAMINER JONES: Chose not to participate 19 in this? 20 21 MS. KESSLER: (Indicating.) 22 Q. (BY EXAMINER JONES) So we're looking at all the 23 Bone Spring, just two different pools? 24 Yes, sir. Α. 25 And one of them has a bigger gravity -- higher Q.

Page 12 gravity, but that's a question for the other witness. 1 What's the nature of the land involved? 2 You probably went over this already, but is it -- some 3 4 federal lands, obviously? 5 Α. Yes, sir. And state lands and fee lands? 6 0. 7 Α. Just fee and federal. There won't be any state leases, about four federal leases. If you kind of look 8 at our Exhibit 2, of our map there, the fee lease 9 located on this tract will be the south half of the 10 southeast quarter and the southwest -- I'm sorry --11 12 southeast of the southwest quarter of Section 22. The rest of our lands there, we've kind of notated with the 13 federal serial numbers, so the rest of it will all be 14 federal. 15 The Federal royalty rates are just 16 Q. Okay. 17 burdens of one-eighth? Yes, sir, that's correct. All the federal 18 Α. leases will be 12-and-a-half percent one-eighth. 19 No overrides? No federal --20 Q. There will be overrides on all the federal 21 Α. leases, and that's kind of where some of our diversified 22 ownership is coming from as well. 23 And what about the fee leases? Are they a 24 Ο. variety of royalty rates? 25

Page 13 The fee leases, I believe one of them is 20 1 Α. 2 percent, with the rest of them being 25 percent. 3 Ο. Oh, boy. Α. The actual 20 percent lease didn't -- it's an 4 older lease that didn't have a clause. 5 Okay. So it didn't contract in the past? 6 0. 7 Α. Correct. Yes, sir. 8 Ο. Wow. 9 So you have -- the lease was actually written with one-quarter royalty rate? 10 Α. 11 At 25 percent. 12 Ο. 25 percent? Uh-huh. 13 Α. 14 So what about overrides on the fee leases? Ο. No overrides on the fee leases. They were? 15 Α. The new leases were taken by OXY USA, Inc. 16 The older 17 lease was taken by a predecessor, Pogo, which, in turn, was purchased by OXY. 18 OXY purchased the lease? 19 Ο. Actually purchased the assets of Pogo, so 20 Α. 21 that's right. Okay. So you transferred the lease -- the 22 Q. 23 lease has actually been transferred into the name of 24 OXY? 25 Yes, sir, probably maybe about ten years ago. Α.

It's been a while. 1 Let's see here. What about working interests? 2 Ο. Is it all OXY in this whole seven units? 3 4 Α. The Section 23 wells will be 100 percent OXY. Our Section 22 wells, we'll have partners 5 6 in there. We're at about 95 percent interest with, sort 7 of, partners below us. But you're also including that acreage -- some 8 Ο. acreages in 27 and 26; is that correct? 9 10 I think what we were trying to show there is Α. the layout of the extent of the federal lease and fee 11 12 lease. Okay. But it's not included in this 13 0. application? 14 15 Α. That's correct. Okay. As far as future expansion, was this an 16 Q. 17 application that was made with specified acreage and two pools so that you could expand in the future into that 18 acreage, or are you just going for these seven units 19 right now? 20 21 MS. KESSLER: Mr. Examiner, the existing units have been identified. And if you look at -- I 22 believe it's the south half of 23 and the southwest 23 24 quarter of 24, those are the areas of the anticipated 25 development. So they have also been included in this

Page 15 lease as potential commingling --1 2 EXAMINER JONES: Okay. MS. KESSLER: -- for future. And also we 3 requested in this application any future wells or 4 spacing units that would be within the existing --5 EXAMINER JONES: Within the seven. 6 7 Ο. (BY EXAMINER JONES) And if someone goes nonconsent or something in those seven -- the infill 8 wells within the seven, they would be diversely owned at 9 that point, correct? 10 Yes, sir. That would be correct. It would be 11 Α. 12 a different -- I quess before payout working interest. Okay. And before penalty, too, then? 13 0. Α. Yes, sir. 14 So you would ask for those to be done with well 15 0. tests also? In other words --16 Since it's diversified --17 Α. -- any well in this case? 18 Q. Yes, sir. And, actually, the nonconsent 19 Α. penalties and partners will all come into effect for 20 wells drilled in Section 22. Section 23 and that little 21 22 portion in 24, that's lease owned 100 percent by OXY. 23 Okay. Nobody can go nonconsent there, then? 0. 24 No. Α. 25 And the OXY unit you were talking about here Q.

Page 16 is --1 OXY USA, Inc. 2 Α. 3 Ο. -- OXY USA? 4 You'd only have 5 percent other working 5 interest, and that's in Section 22. So have any of those people -- did you talk to any of those people 6 7 about -- did they call you about this application? No, they haven't. 8 Α. Haven't had any --9 Ο. I've talked to them about the actual well 10 Α. 11 proposals and just generally how we were going to work 12 the facilities, but they haven't inquired further about 13 our application. Okay. But I've seen your name on several 14 Ο. applications coming in here. So you provide input or 15 submit service commingle applications; do you not? 16 I will actually provide our ownership, and I 17 Α. will work with our regulatory group as far as compiling 18 the actual application. 19 20 Q. Okay. So in some cases, you're going to have a 21 lot more partners than this; is that correct? 22 Α. (No response.) 23 Have you had other -- I guess you might not be 0. 24 the one to ask. But if you've had inquiries in other applications where you've asked for well testing when 25

1 you've had less of an OXY percentage, can you think of 2 anything like that?

A. I cannot. At least for this area on the map, we're pre -- our working interest, and I believe this will be the first application I was involved in from this standpoint.

Q. What about surface -- surface ownership? Are you -- are you in tune with who owns surfaces in these sections?

I'm familiar. Actually, our surface 10 Α. operations, we have surface landmen that work this area 11 12 as far as rights-of-way damage and negotiations. I do know where our facility is located in the north half of 13 the south half. It's actually going to be located on 14 fee surface. And we have a surface-use agreement with 15 those owners, and they've been notified of the 16 17 construction and pay damages.

If this were not approved for well testing and 18 0. you had to put in separate facilities, would that impact 19 some surface lands or -- not just cost for OXY, but 20 21 where would you put your facilities? Would you have to go -- you or the landman in charge of negotiations have 22 23 to negotiate a surface-use agreement? 24 Yeah. It would actually be our surface landman Α. that would go to the surface owners. I actually deal 25

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Page 18 more with working interests in the mineral side, but 1 2 having previously worked in the surface division for our 3 company, yes, we would have to go to the surface owners 4 or the BLM, both BLM and fee owners on surface in this 5 area. Would it be sometimes hard to obtain an 6 Ο. 7 agreement for additional surface facilities? Actually, for this area in 24, this township, 8 Α. we have a large surface-use agreement from one of the 9 main surface owners. So it's under a surface-use 10 agreement for use. There is one more other smaller 11 12 landowner that we actually have a smaller agreement So from a fee standpoint, we have SUAs in place, 13 with. surface-use agreements. 14 So even though you'd only do the minerals, 15 0. you're aware of all the surface issues, it sounds like? 16 17 Α. Yes, sir. So the tank battery will be located where at? 18 Q. I believe that it'll be located on the 19 Α. northwest quarter of the southwest quarter. 20 Of Section 22? 21 Ο. 22 Α. That's correct. Northwest-southwest? 23 0. 24 Yes, sir, Exhibit 2. It's pretty small, but Α. they have a purple block there in the corner. 25

Q. Okay. And so if you had to put a facility for
wells over in Section 23 well, these wells are being
drilled from the from the drilled from the surface
side?
A. Common pad.
Q. Common pad?
A. Yes, sir.
Q. Okay. So it's not like you would have to put
facilities a long ways away from each other, but it
would just be a bigger facility; is that correct?
A. I would really want to check with our
facilities engineer because I also know the Pecos
River I'm not sure if it winds through this section.
So that would probably also have an effect on how far
away or how close we could have separate facilities.
EXAMINER JONES: Questions for this
witness?
EXAMINER WADE: I have no questions.
EXAMINER GOETZE: I have no questions for
this witness.
EXAMINER JONES: Thank you very much.
TREY A. FOURNIER,
after having been previously sworn under oath, was
questioned and testified as follows:

	Page 20
1	DIRECT EXAMINATION
2	BY MS. KESSLER:
3	Q. Please state your name for the record and tell
4	the Examiners by whom you're employed and in what
5	capacity.
6	A. My name is Trey Fournier. I'm employed by
7	Occidental Petroleum, and I am the facility engineer
8	coordinator for our New Mexico assets.
9	Q. Have you previously testified before the
10	Division?
11	A. I have not.
12	Q. Can you please outline your educational
13	background?
14	A. I have a bachelor of science from Texas A & M
15	University that I received in 2012.
16	Q. And can you please outline your work history?
17	A. I began working for OXY in January of 2013.
18	Q. Have your responsibilities since joining OXY
19	included the Permian Basin?
20	A. Yes. I've worked exclusively for OXY in the
21	Permian Basin in New Mexico.
22	Q. As a facility engineer?
23	A. Correct, as a facility engineer and a facility
24	engineering coordinator.
25	Q. Do you have any professional certifications?

	Page 21
1	A. I have passed the fundamentals exam in 2012.
2	Q. Are you familiar with the commingling
3	application in this area?
4	A. I am.
5	Q. And did you participate in designing the
6	surface facilities that will be utilized for storage and
7	allocation for the subject wells?
8	A. I did.
9	MS. KESSLER: Mr. Examiners, I would tender
10	Mr. Fournier as an expert petroleum engineer.
11	EXAMINER JONES: Mr. Fournier is so
12	qualified.
13	Q. (BY MS. KESSLER) Turn to Exhibit 8. You said
14	that you supervised the draft of facility plans for
15	these wells; is that correct?
16	A. That's correct.
17	Q. Can you please explain OXY's proposed
18	facilities diagram?
19	A. So shown here is a process flow diagram of the
20	Cedar Canyon 23-3H satellite facility and the Cedar
21	Canyon 22 satellite. On the left-hand side, you have a
22	list of all the wells that go through the $23-3H$
23	satellite. Some are drilled. Some are proposed.
24	All those wells go through inlet manifold,
25	and from there, they will either go to a 6-by-20

production separator or to a test separator. The gas streams from both of these -- from -- off both of these separators go through an orifice meter, where they're metered. After they're metered, they're then combined into a gas stream. They go to our low-pressure gathering system that eventually goes to sales.

7 The oil and water are both measured with turbine meters. The oil downstream to the oil meter, we 8 have a proving line used to get the repeatability factor 9 10 for the turbine meter. Downstream at the meters, the oil and water do come into a common water and oil line, 11 12 respectively. The oil then goes to the 22 satellite where it is stored in common oil tanks before going 13 through a coiless meter for custody transfer. 14

Q. So the off-lease storage and measurement
location is noted on this diagram; is that correct?
A. That's correct.

Q. Can you please briefly discuss cost savingsassociated with this facility setup?

A. So if we were to have continuous measurement on all of the wells for various interests, we would require an additional five-test separators in this location. Install costs on the test separators is around \$200,000. So by doing allocation by well test here, we'd see a saving of a million dollars for the wells listed, shown.

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Page 23 Turning to Exhibit 9, is this a written 1 0. 2 description of the process that you just described? That's correct. 3 Α. And this description was also contained in the 4 Ο. C-107B submitted to the Division? 5 6 Α. That's correct. 7 In your opinion, will approval of this Ο. application allow OXY to efficiently and effectively 8 transport, store and market production from the subject 9 10 acreage? Yes, it would. 11 Α. 12 Ο. What does OXY propose as an allocation method? OXY proposed allocation by well test. 13 Α. Looking at Exhibit 10, if you could please walk 14 Ο. us through this exhibit and explain how production will 15 be allocated. 16 17 Α. So looking at Exhibit 10, if you look at the chart on the left-hand side, your y-axis is the rate for 18 barrels of oil per day --19 (The court reporter requested the witness 20 speak louder.) 21 So on the y-axis on the chart on the left-hand 22 Α. 23 side, we show a rate in barrels of oil per day, and time 24 on the x-axis. So the black line shown is -- would be the rate of the well on a daily basis; whereas, the red 25

bar shown there would be a series of well tests. 1 So the well -- the well volumes are 2 3 allocated according to most recent well tests. And so 4 if you have four well tests in a given month, that 5 results in a step function of well tests where every allocation is based off the most recent well tests. 6 7 So at the end of each month, you take a look at the well-test volumes that you have for that 8 particular well, and you sum all those preshrunk volumes 9 up for that given well on a monthly basis. And you do 10 the same for all other wells that go through that 11 custody transfer point end of the month. 12 So then using a part of the whole 13 relationship, you can multiply that part of the whole 14 relationship of the preshrunk volume for that well over 15 the total preshrunk volume for all wells, multiplying 16 that by the total volume that's actually sold at the end 17 of each month, and that is the allocated volume that has 18 been allocated back to that particular well. And all 19 this is done per Chapter 20 of the API. 20 Looking at Exhibit 11, could you please explain 21 Ο. OXY's proposed testing plan? 22 23 So OXY is proposing a testing plan that looks Α. at and accounts for the anticipated and actual 24 25 production decline of the wells to help dictate the

Page 24

number of well tests required. So what we've shown here 1 2 is four different, you could say, life cycles of a well. We have flowback to pre-peak. 3 We have 4 Range I, we're calling, which would be peak to two months after peak; Range II, 3 to 12 months; and then 5 6 Range III, 12 months after peak production. 7 And in each of these life cycles, you have a very -- very unique characteristics of the well. 8 You see dramatic declines in the early portions of the well. 9 And as a result, in order to properly characterize the 10 well's actual production, you do need a different 11 frequency of well tests during those times. 12 However, as a well begins to decline, as 13 you can see in Range III showing decline rates of less 14 than 5 percent on a month-to-month basis, there are 15 fewer well tests that are needed to characterize what 16 17 that well is doing on a day-to-day basis. So OXY is proposing taking a look at both our type curves and our 18 actual production and seeing where a well is in its life 19 and looking at the -- whether that dictates the number 20 of well tests we would need to characterize, how many 21 tests that well would need for proper allocation. 22 23 Why has OXY proposed allocation by well-test Q. 24 method? 25 So allocation by well-test method is -- it's in Α.

Page 26 API Chapter 20, and it's an acceptable allocation 1 2 method. And it allows us to go in and more effectively build these facilities for all of these wells, as well 3 as to more economically justify the facilities we have 4 for these wells. Due to the high -- high decline of 5 these wells from the very beginning, it's very difficult 6 7 to justify a large number of testers when they'll be underutilized in several months. 8 9 You mentioned the high decline of these wells. Ο. Will the following witness present decline curves for 10 the producing wells to illustrate the expected decline? 11 Yes, he will. 12 Α. Were Exhibits 8 through 11 prepared by you or 13 0. compiled under your direction and supervision? 14 Yes, they were. 15 Α. MS. KESSLER: Mr. Examiner, I'd move 16 admission of Exhibits 8 through 11. 17 EXAMINER JONES: Exhibits 8 through 11 are 18 admitted. 19 (OXY USA, Inc. Exhibit Numbers 8 through 11 20 are offered and admitted into evidence.) 21 22 CROSS-EXAMINATION 23 BY EXAMINER JONES: 24 I want to thank you-all for coming up here and Q. 25 presenting this case because we've had the movement to

Page 27 just include broad stretches of land into one property 1 2 and take care of it that way. 3 Α. Right. Ο. But this seems -- this seems more versatile and 4 5 accurate for recordkeeping of the wells. 6 Α. Absolutely. So in Chapter 20 of the API, they describe well 7 0. tests and how it should be done? 8 9 Correct. Yes. Chapter 20.1 is allocation Α. measurement. I mean, it goes through all of the 10 different allocation methods of how you can allocate 11 production back to the wells. The well-testing method 12 is the most common allocation method that I have seen in 13 14 Permian Basin. So as far as implementing in the old days, it 15 0. required pumpers to change the valves and everything. 16 17 Do you still do that, or do you have automated equipment? 18 So we -- in portions of New Mexico, we do have 19 Α. automatic well testing. I can say that specifically in 20 21 the Cedar Canyon area, we currently don't have automatic well testing. So a pumper actually goes to the well, 22 and he turns a valve to take it from production into 23 24 And that was due to we were having some issues test. with our automated well-testing valves. They were 25

1 imposing back pressure on the wells, which is not -- not 2 ideal from a production scenario.

Looking into the future, as we get more and more wells into these facilities, I do see that we'll probably go back to automated well testing, but it will be a different implementation than we've had in -- in the 2012 time frame that we had had. But now it's manually done by pumpers.

9 Q. The application you've got here is for all Bone 10 Spring wells, and so -- we're going to talk about the 11 decline rate in a minute. But as far as the difficulty 12 in splitting out the gas from the oil and the oil from 13 the water, what can you tell us about that?

14 Α. What we have seen is -- especially as the wells come on initially, the larger -- larger testing 15 equipment is definitely required in order to get 16 adequate -- adequate separation. That's due mostly --17 due to slug flow as they flow initially when they come 18 So in order to do that, if you were to go 19 online. through sizing calculations per GPSA or ASEA {phonetic], 20 21 any separator sizing, they would say we need a much smaller -- however, due to slug flow, all that is 22 involved with that, you're actually going to need a much 23 24 larger vessel initially.

25

Once the wells start to go -- they go off

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decline and they go off lift, you get a more predictable 1 2 flow than going through the facilities, but we've 3 seen -- at least when they are initially on flowback at 4 their peak, it is -- it's not -- you know, if you're talking about 1,000 barrels a day, it's not broken out 5 over nice even increments. You get big spikes and then 6 7 nothing and big spikes and nothing. So it requires much larger equipment for the initial portion. 8 Are you talking retention time? 9 0. Retention time, yes. We have not seen -- as 10 Α.

11 long as we're getting adequate retention time, 12 especially in the summer months in Carlsbad, we don't 13 have much issue separating oil, water and gas.

Q. So not emulsions?

14

15 A. Once you get to the winter, that becomes -- we 16 start to see paraffin issues and a few other things, but 17 right now we're getting adequate separation with just 18 ensuring we have sufficient retention time on our 19 vessels.

20 Q. Sand flowback, does that hurt your vessels? 21 A. Yes, it is. Sand is an issue. And that's just 22 a result of the that move to larger fracs. The sands 23 are going to come along with it. So we're periodically 24 monitoring -- we do use sand traps upstream at the 25 eddies [sic; phonetic] of the wells as they come, before

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they come into our facilities. But we still have to monitor the sands within the facility itself just to make sure that we're not seeing so much -- strain to our pumps.

5 Q. How much backflow pressure you got on your 6 wells? What's the wellhead pressure that you are 7 charged with reducing it to?

Α. I would say it definitely depends on the lift 8 if we're flowing. I would say we can keep our 9 operating -- we keep our gathering system relatively low 10 pressure and try and operate somewhere around 60 pounds. 11 12 And so with that being at such a low pressure, we go through our wellhead choke, so we're artificially 13 holding pressure off the wellhead right there for 14 different reasons, for flowback and sand control and 15 reservoir integrity and everything else. But we try and 16 17 operate facilities at 60 to 70 pounds.

Q. Okay. So what about -- if this were a Bone Spring Wolfcamp combination, would that -- what's the difference in the gravities there and if we see some of these applications come through with variety?

A. Right. Right. I would see very little difference, especially if you're looking at the upper portion of the Wolfcamp. The gravity seems to be very similar to what we see in the Bone Spring 2nd and 3rd.

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Page 31 As you move to lower depths of the Wolfcamp, you might 1 get a little bit higher gravity, but I wouldn't see 2 substantial issues from a facilities side, other than it 3 should actually be easier to separate. 4 5 I had a little bit of experience working in the Marcellus Shale prior to working for OXY, and we 6 7 deal with much lighter condensate. And it's typically easier to separate that out for API or crude. 8 Okay. Before I forget, one of these units had 9 Ο. projected 46 gravity? 10 11 Α. Yes. 12 Ο. Was that -- was that you that put that down? 13 That was not me, no. Α. Okay. So that was from -- from your 14 Ο. experience, it was Sales? 15 Α. I don't know who put the API gravity 16 Yes. 17 there. Well, speaking of that, your sales agreements, 18 0. are they -- you sell the volume per month, or you sell 19 it every day? In other words, are you talking about a 20 21 monthly thing --22 Α. Correct. 23 -- in number ten here, as far as well tests? 0. 24 And I guess you're talking about just taking a certain period of time and deciding how to split it up? 25

A. Yeah. It's typically drawn on a monthly basis
 because you're required to close out the custody
 transfer meter on a monthly basis.

Q. Okay.

4

5 And so when you're looking at the open and Α. close of that particular custody transfer meter on a 6 7 month-to-month basis, that's typically how it's always back-allocated as opposed to doing it on a day-by-day 8 basis. Otherwise, you'd have to have allotted run 9 tickets and a lot of -- there would just be a lot of 10 more or less -- there is no way it could be done with as 11 12 much paperwork and run tickets that are required. So 13 it's typically done on a month-to-month basis so you can close out your meters. 14

Okay. I'm sorry to drone on and on here, but 15 0. the Coriolis meters, can you explain those? 16 17 Α. Yes. It's a long topic of conversation. So the Coriolis meters recently became 18 accepted by Onshore Order 4 per the BLM for 19 custody-quality level -- custody-quality level 20 21 measurement. So the Coriolis meter is typically the U-shaped meter that you would see off of most LACTs. 22 23 Some LACTs are -- displacing LACTs. But most of them 24 the newer LACTs have Coriolis meters. 25 And they are meters that look at -- using

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Page 33 the Coriolis effect, looking at flow through density and 1 2 flow through that meter, and it's able to give very, 3 very accurate custody-quality measurement. Ο. So it's better than the older way of doing it? 4 5 Yes. Yes. Α. Has it got a range of efficiencies that are 6 Ο. 7 wider? No, because it's typically fed by a pump. 8 Α. 9 Ο. Okay. So you're going to be limited by what size 10 Α. meter you have. There are 2-, 3, or 4-inch. 11 But there 12 are very wide ranges in between. But it's mostly set by -- you have a back-pressure valve on the outlet, and 13 you're feeding that meter with a pump because upstream 14 that pump is fed by a tank head. 15 Is it sensor -- is it sensor density? 16 Ο. 17 Α. Yes. Yes. So it actually goes through -there's a lot it goes through that's actually measuring 18 You can actually do transient vapor analysis, 19 on it. which goes and shows very detailed the changes in 20 21 density and everything as it goes through. You get average densities, flow rates, all of that through the 22 Coriolis meter. And it takes all of that into account 23 24 as it goes through and calculates the total volume. 25 Q. Okay.

Page 34 It's been industry accepted for many years now, 1 Α. 2 and I'm very glad to see the BLM now accepting it. We saw that in the BLM. 3 0. Α. Yes. 4 5 0. Now, as far as proving it -- proving the meter, how do you do that? 6 7 Α. So we prove our Coriolis meters per -obviously for our federal leases. But as far as the 8 actual proving, we have third-party provers come in that 9 use a Master Meter. And essentially a Master Meter is a 10 meter that has been proved by a -- like, literally 11 12 measuring in, measuring out. So your -- it's being proved by a meter that is the benchmark for -- it knows 13 it's correct. And it's done on either -- at minimum on 14 a quarterly basis. But if you have high flows going 15 through it, it can be done on a greater time. 16 17 0. Okay. We've talked about well tests here, but if you go through the -- one well going through a test 18 separator, you'll design that separator for your average 19 well? 20 You design it for the best well. 21 Α. Best well? 22 Q. 23 Correct. Α. 24 So it has to be big enough to handle every one 0. of those wells accurately? 25

Page 35 That's correct. That's correct. 1 Α. 2 And a facilities engineer would be the one who 0. would know about that --3 4 Α. That's right. 5 -- in conjunction with the reservoir engineer? Ο. 6 That's correct. Α. 7 We work very closely with the reservoir engineers to look at the peaks of the wells, because if 8 it can't measure the peaks, then it's not really doing 9 much. 10 So if it's hyperbolic, the decline is going to 11 Ο. 12 change a lot and rapidly? 13 Correct. Yes. But separators have a Α. turned-down ratio that will separate -- high end is 14 15 there. 16 Ο. Okay. So your actual production separator --17 if you had to put in separate production separators, they would be typically the size of these test 18 separators, then; is that correct? 19 Depending on the number of wells that would be 20 Α. going through them, it could be variable. If you get to 21 multiple wells going through each production separator, 22 23 you would obviously want a larger pool separator. But 24 if it's just one to maybe two wells, the test separator 25 will almost be the same size as the production separator

Page 36

1 if it's handling two wells.

2	Q. Okay. The production separators would what
3	is the what is the I mean, I guess we often assume
4	that they are if you have a separator on every well
5	that you're exactly measuring everything. But is that
6	correct? In other words, is there some weaknesses in
7	that assumption?
8	A. The weaknesses in that assumption would be
9	is you will have what you're measuring at the
10	separator is a preshrunk volume.
11	Q. Okay.
12	A. So you will have weathering as it goes through
13	and it sits goes from you know, if you're
14	operating at 70 pounds, you go to atmospheric pressure,
15	you will have some shrinkage in that regard, as well as
16	difference in ambient temperature, et cetera.
17	And so by looking at the total sold volume
18	at the end of the month or whenever you look at that
19	volume, it then allows you to take that volume. And
20	then if you look at your total preshrunk volume as a sum
21	of all the wells going into that facility and into a
22	part of the whole relationship and then back-allocating,
23	you get an accurate number of what was actually sold
24	from that well due to losses.
25	Q. Because you're actually metering through

Page 37 sales -- the sales meter as the total volume --1 2 Α. That's correct. 3 Ο. -- going through, but --The gas meters are -- are they --4 5 They're orifice meters per Onshore Order 5. Α. 6 Just like they always were, but they're 0. 7 electronically integrated? Α. We'll have an electronic flow computer on 8 the -- off the head of each one of them that does all 9 the flow calculation and all of that per Onshore Order 5 10 and the American Gas Association. 11 In this particular application, what would be 12 Ο. your percentage of adding up all the well tests versus 13 the actual sales? In other words, is it 95 percent or 14 105 percent? What's the deviation between adding up all 15 your well tests, and what do you --16 17 Α. From a preshrunk -- from a preshrunk perspective to a sold perspective? 18 19 Ο. Yes. I would say 85 percent. 20 Α. 21 Okay. So 15 percent inaccuracy there? 0. And I wouldn't call it inaccuracy. I would 22 Α. just call it -- because if it's -- if you're still 23 looking at the volumes as a whole, everything is off 15 24 percent. So if you normalize for that 15 percent, it 25

wouldn't -- I wouldn't call it inaccuracy. It's just -unless you're looking at -- you know, if you want to pay their step turbine meter versus paying for a Coriolis meter, yes. But as far as if you're normalizing across all the wells, then you shouldn't get any inaccuracies. A turbine meter typically has a less than one percent -meter associated with it.

Q. So you're using the turbine meters upstream of9 the Coriolis meter?

10 A. Yes, sir. Yes, sir.

Q. And those Coriolis meters, do they get them cheap enough you could actually use them on your -- with the well test someday?

A. They are considerably expensive in comparison to turbine meters. They also have some limitations in regard to gas breakout that -- turbine meters are still somewhat affected by it, but Coriolis meters are MORE affected by gas breakout than turbine meters are.

Q. Okay. Okay. I'm not sure every company's going to have a facilities engineer as experienced as you, but we have to look at applications from, you know, a whole range of situations -- not just companies but situations.

24 A. Yes, sir.

25

Q. And so, in general, what can you tell us about

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well testing versus continuous metering? I mean, if you 1 2 were in our situation, what would you want to look at? In my opinion, I think the most critical thing 3 Α. 4 is looking at where a well is in its life and using that 5 to help judge the number of well tests to help characterize it. I believe allocation by well test is 6 an accurate method and is a fair method for allocation 7 of production. But I do think the key is looking at 8 where a well is in its life. 9 A well that has not been online in three 10 years, you'll see very little variability in it day to 11 day. However, a well that's been online for a month, 12 you can see much more variability, you know, within a 13 five-day stretch. And so on -- when a well is brought 14 online, I would tend to say the more well tests you can 15

Page 39

16 get in that earlier portion of the well will help 17 characterize and help better allocate.

Q. So if you design your test separator for the biggest well and you actually design it correctly, which is probably kind of a stretch sometimes, but -- so -- so the inaccuracies would arrive early in the life of the hyperbolic wells?

A. That's correct.

Q. Okay. Thank you very much.

25 EXAMINER WADE: No questions.

Page 40 EXAMINER GOETZE: No questions for you. 1 2 CROSS-EXAMINATION 3 BY EXAMINER GOETZE: Ο. Yes, sir. Has OXY had a similar configuration 4 like this at any of its other facilities? 5 6 We have done allocation by well tests at other Α. 7 facilities. I do not know -- I don't think that they were, like in this case particular case, where we have 8 9 different interests. In general, what were the biggest 10 0. Yeah. problems with its operation when you initially started 11 12 up? Was it just frequency and measurement? I would just say frequency and measurement. 13 Α. Yes, sir. 14 As far as calibration of everything other than 15 0. what we've talked about, what's the frequency for those? 16 17 Α. So the turbine meters have -- they've proven So you can come in and do proving on those, 18 themselves. establish a meter factor on the turbine meters. 19 I do not know the frequency of turbine metering, of proving 20 on those -- custody transfer measurement. We do have 21 measurement techs to go out, and they do what is called 22 23 a calibration on them. But I do not know off the top of 24 my head. 25 And as far as disposal, are these going through Q.

Page 41 OXY's wells, or is this to an agreement put together? 1 2 Α. For water? 3 Ο. Yeah. 4 I would say -- we have a gathering system in Α. 5 this particular area. I would say the vast majority of the water goes to OXY's own SWDs, although we are 6 7 working to get some third-party disposals. 0. Very good. No further questions. 8 9 MS. KESSLER: And, Mr. Examiner, the following witness will be able to discuss the 10 oil-gravity issue. 11 12 EXAMINER JONES: Okay. 13 ROBERT C. TYSOR III, 14 after having been previously sworn under oath, was 15 questioned and testified as follows: DIRECT EXAMINATION 16 17 BY MS. KESSLER: Please state your name for the record and tell 18 Ο. the Examiners by whom you're employed and in what 19 capacity. 20 21 Yes. My name is Robert Chan Tysor. I'm Α. employed by OXY USA, Inc. as a reservoir engineer. 22 Have you previously testified before the 23 0. 24 Division? 25 Α. No.

Can you please outline your educational Ο. 1 2 background? I graduated from the University of Texas 3 Α. Yes. at Austin in May of 2012 with a bachelor of science in 4 petroleum engineering. 5 6 And please describe your work history. 0. 7 Α. I started full time working for OXY in July of 2012, and I worked as a drilling engineer solely in our 8 New Mexico assets for three-and-a-half years after that. 9 And I've been working as a reservoir engineer for the 10 past year. 11 And that would be in the Permian Basin as well? 12 Ο. 13 Correct. Α. 14 Do you have any professional certifications? Ο. 15 I passed my Fundamentals of Engineering Exam in Α. March of 2012. 16 You're familiar with the commingling 17 0. application as it relates to this hearing? 18 Α. 19 Yes. And have you conducted a review of the subject 20 Q. reservoir in the area? 21 22 Α. Yes. 23 MS. KESSLER: Mr. Examiners, I would tender 24 Mr. Tysor as an expert in petroleum engineering. 25 EXAMINER JONES: He's an expert in

1 petroleum engineering and so qualified.

2 Q. (BY MS. KESSLER) If you can turn to Exhibit 12, 3 please, is this the production information for wells 4 that are currently producing?

A. Yes.

5

Q. And looking at this chart, did the 4H well
briefly hit the top of the allowable for a short period
of time?

9 On the average month of February of this Α. Yes. year, the Cedar Canyon 23 Federal 4H produced over the 10 top allowable. However, due to the decline, it did not 11 12 produce over the top allowable. After that month, we do not expect the well to produce over the top allowable. 13 14 For other wells, do you believe that they're Ο. also capable of producing top allowable? 15

16 A. We expect that the wells are capable of 17 producing over top allowable. However, we do not 18 anticipate they will produce over top allowable for 19 longer than three months.

20 Q. You believe that they'll decline quickly,21 correct?

22 A. Yes.

Q. Have you brought a series of declines toillustrate that point?

25 A. Yes.

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Q. If you could turn to Exhibit 13, please, and
 identify this exhibit.

Exhibit 13 shows a map of our Cedar Canyon 3 Α. 4 acreage, as well as several wells identified and drilled 5 into the 2nd Bone Spring over the past several years. Ι wanted to describe how we created our decline curve for 6 7 the wells that are not yet producing in this application. 8 9 For the Cedar Canyon 2nd Bone Spring

10 5,000-foot laterals, we have looked at the offset 11 production of four wells just to the south of the 12 proposed laterals, the Cedar Canyon 28-6, 28-7, 27-6 and 13 27-7, and performed an RTA analysis on those wells, 14 which is basically a reservoir simulation.

We also have looked at the volumetric 15 analysis of the oil in place based on the petrophysics 16 17 in Cedar Canyon, and we've created a production profile based on the simulation, as well as the historical 18 production of the Cedar Canyon 27 State Com 4H. 19 We also have a proposed 7,500-foot 2nd Bone 20 21 Spring lateral, and that type curve is based on a similar RTA simulation analysis, volumetric analysis, as 22 well as a decline curve analysis of the Cedar Canyon 23 24 23-4 and 5.

If you go to Exhibit 15, this graph on the

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25

Page 45 left axis shows our daily anticipated production rate 1 2 plotted against our -- against time and months. And the black curve shows the anticipated production of the 3 4 Cedar Canyon 5,000-foot 2nd Bone Spring laterals. We anticipate they will come online between 1300 and 1500 5 barrels of oil per day. 6 7 Let me turn you back. Ο. MS. KESSLER: I think we're actually 8 9 looking at Exhibit 14, Mr. Examiners, for the 5,000-foot. 10 11 Ο. (BY MS. KESSLER) Correct? 12 Α. Yes. I apologize. Exhibit 14 is the graph 13 that we're looking at. 14 As I was mentioning, we expect these wells will come online somewhere between 1300 and 1500 barrels 15 of oil per day. But during the first few months, there 16 17 is a relatively high decline, and we do not anticipate that the wells will produce above top allowable for more 18 than three months. 19 And you'll notice the four wells that I 20 21 mentioned that were previously drilled just south of the wells in this application are plotted against -- their 22 23 production is plotted against the proposed type curve 24 and match fairly closely. 25 Now we can turn to Exhibit 15, and this

exhibit shows our anticipated type curve for the Cedar
 Canyon 7,500-foot laterals. Again, it's plotted in
 black against the historical production in the blue and
 purple of the Cedar Canyon 23 4H and 23 5H.

5 The 2nd Bone Spring is an unconventional 6 reservoir that in order to drill and produce economic 7 wells, it requires hydraulic fracture stimulation, and the type curve exhibits are relatively high decline due 8 to the unconventional nature. And the initial 9 production period is from the rock that is stimulated 10 during our fracture stimulation. However, as we move 11 later on in life, the well is producing from 12 under-stimulated rock or a nonstimulated reservoir, 13 which delivers much lower rates. That's why the well 14 exhibits the high decline. 15

We move to Exhibit 16. It shows a similar 16 17 map on the right of our Cedar Canyon 3rd Bone Spring wells that have been previously drilled. 18 The Cedar Canyon 16 9H and the Cedar Canyon 10H. We do a have a 19 one-mile n the proposed 3rd Bone Spring lateral in this 20 application. And the type curve process follows a 21 similar RTA simulation, volumetric analysis of oil in 22 23 place and decline curve analysis on those wells to create our type curve, which is shown in Exhibit 17. 24 25 The anticipated production for our 3rd Bone

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Page 47 Spring one-mile type curve is shown in red, and we 1 2 anticipate that will come on most likely below top allowable and exhibit the same similar shallow -- or 3 4 steep decline during the initial few months of 5 production. 6 Mr. Tysor, in your opinion, is the well-test Ο. 7 method an efficient and appropriate means by which to allocate production from the subject spacing units? 8 9 Yes. Α. And in your opinion, will allocation on a 10 0. well-test method impair correlative rights? 11 12 Α. No. Were Exhibits 12 through 17 prepared by you or 13 0. compiled under your direction and supervision? 14 15 Α. Yes. MS. KESSLER: Mr. Examiners, I'd move 16 17 admission of Exhibits 12 through 17. EXAMINER JONES: Exhibits 12 through 17 are 18 admitted. 19 20 (OXY USA, Inc. Exhibit Numbers 12 through 17 are offered and admitted into evidence.) 21 22 CROSS-EXAMINATION 23 BY EXAMINER JONES: 24 You're kind of unusual because of your drilling 0. 25 experience and you're a reservoir engineer.

1 A. Yes.

4

5

2 Q. That's kind of like two ends of the spectrum3 there.

A. Definitely.

Q. So most of these wells are drilled similarly?

A. We have a similar casing design for all of
these wells. Even between the one-mile laterals and the
mile-and-a-half laterals, in between 2nd and 3rd Bone
Spring, they all have the same casing design, just
different laying depths and lateral lengths.

Q. Okay. And the completions are similar?
A. Similar frac size between both the 2nd Bone
Spring and the 3rd Bone Spring, and our proppant
concentration in each stage is relatively similar,
somewhere around 1,500 pounds per foot of proppant in
the wells that we drill.

17 Q. The water-oil ratio is -- carries between
18 these?

A. We anticipate the 2nd Bone Spring wells will
come on with a water-oil ratio somewhere around 1.
We've seen slightly lower, somewhat slightly higher.
The 3rd Bone Spring wells, we do see a higher water-oil
ratio.
Q. The 3rd has got more water -- pre-water --

A. Yes. Yes.

Page 49 -- that comes in? 1 Q. 2 So you have to deal with the water Boy. So your economic limit oil production? 3 issues. 4 Α. I don't know -- I don't know exactly at what point in time these wells, you know, reach their 5 economic limit. The majority of our economics is during 6 7 the initial two to three years of production. I mean, there is a lot of remaining reserves after that first 8 three years, but the majority of our return is recovered 9 10 during the first three years of production. What about production equipment? 11 Ο. 12 Α. So I work pretty closely with Mr. Fournier, the previous witness, to design and, you know, get the 13 proper funding for the required production equipment, 14 but he knows much more about that than I do. 15 Okay. What I meant was the surface --16 Q. 17 Α. Ah, lift. -- the pumping units or gas lifts. 18 Q. So we anticipate these wells will flow 19 Α. naturally during the first few months of production. 20 21 However, for our 2nd Bone Spring wells, we do plan to install gas lift mandrels in the vertical portion of the 22 well, and we'll have surface compression to inject gas 23 to lift the oil column, in the 2nd Bone Spring. 24 25 In the 3rd Bone Spring, we're evaluating an

Page 50 option between a gas lift injection or electrical 1 2 submersible pump. So that gas lift that you're using in the 3 0. second, has that got a packer, or is it an open gas 4 lift? 5 6 We're trialing both. We have one well that has Α. 7 an open annulus, no packer installed. We're trying to inject at a higher rate with the gas lift, but the 8 majority of the gas lift installations have a packer. 9 You did a great job on the matching. 10 Ο. Yeah. Is this Dr. Crafton's RTA --11 I'm not familiar with that particular 12 Α. 13 methodology. We have some other RTA experts that have 14 helped us. But you've got the software and you used it? 15 0. Yes. The software is made by Fekete. 16 Α. It's 17 called Harmony. Oh, okay. Fekete was bought by somebody else, 18 Q. I believe. 19 I believe by his, yes. 20 Α. Okay. I don't have any more questions. 21 Thank Ο. 22 you very much. 23 Α. Okay. 24 EXAMINER WADE: I have no questions. 25 I have no questions for EXAMINER GOETZE:

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     this witness.
 1
                   MS. KESSLER: Thank you, Mr. Examiner.
 2
                    I'd ask this case be taken under
 3
 4
     advisement.
 5
                   EXAMINER JONES: Thank you-all for coming.
     We really appreciate it.
 6
                   We'll take Case 15540 under advisement.
 7
                   EXAMINER GOETZE: And seeing what time it
 8
 9
     is and our court reporter is still catching up, let's
     take a 15-minute break and come back at quarter after
10
     and pick up the docket again.
11
                    (Case Number 15540 concludes, 9:57 a.m.)
12
13
                    (Recess 9:57 a.m.)
14
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	Page 52
1	STATE OF NEW MEXICO
2	COUNTY OF BERNALILLO
3	
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5	I, MARY C. HANKINS, Certified Court
6	Reporter, New Mexico Certified Court Reporter No. 20,
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12	ability.
13	I FURTHER CERTIFY that the Reporter's
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16	I FURTHER CERTIFY that I am neither
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18	attorneys in this case and that I have no interest in
19	the final disposition of this case.
20	
21	
22	Certified Court Reporter
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