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STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

ORIGINAL

APPLICATION OF OCCIDENTAL PERMIAN
LTD TO AMEND ORDER R-6199-B Case No. 15103
TO EXPAND THE NORTH HOBBS
GRAYBURG-SAN ANDRES UNIT PHASE I
TERTIARY RECOVERY PROJECT, TO
MODIFY CERTAIN OPERATING REQUIREMENTS
AND TO CERTIFY THIS EXPANSION FOR
THE RECOVERED OIL TAX RATE PURSUANT
TO THE NEW MEXICO ENHANCED OIL
RECOVERY ACT, LEA COUNTY, NEW MEXICO

TRANSCRIPT OF PROCEEDINGS
EXAMINER HEARING

BEFORE: CHAIRWOMAN JAMI BAILEY

March 13, 2014
Santa Fe, New Mexico

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This matter came on for hearing before the New
Mexico Oil Conservation Division, JAMI BAILEY,
Chairwoman; TERRY WARNELL, Designee of the
Commissioner of Public Lands; and ROBERT S. BALCH,
Designee of the Secretary of Energy, Minerals, and
Natural Resources Department, on Thursday, March 13,
2014, in Porter Hall, Santa Fe, New Mexico.

REPORTED BY: PAUL BACA, CCR #112
PAUL BACA COURT REPORTERS
500 4th Street, NW, Suite 105
Albuquerque, New Mexico 87102

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1 MADAM CHAIR BAILEY: I will call Case
 2 15103, which is the application of Occidental
 3 Permian, Limited, to amend Order R-6199-B, to expand
 4 the North Hobbs Grayburg-San Andres Unit Phase I
 5 tertiary recovery project, to modify certain
 6 operating requirements, and to certify this
 7 expansion for the recovered oil tax rate pursuant to
 8 the New Mexico Enhanced Oil Recovery Act, Lea
 9 County, New Mexico.

10 Appearances?

11 MR. FELDEWERT: Madam Chair, members of
 12 the commission, Michael Feldewert, with the Santa Fe
 13 office of the law firm of Holland & Hart, appearing
 14 on behalf of the applicant.

15 MADAM CHAIR BAILEY: Counsel, do we have
 16 other appearances?

17 MR. BRANCARD: We have at least two
 18 parties who sent notices to the commission for
 19 entries of appearance. These were parties that
 20 received the notice that was required by the
 21 company.

22 And we have an entry of appearance by
 23 David Ellison, personal representative of the estate
 24 of George Rittenhouse Ellison.

25 And then we have an entry of appearance by

1 Tom Mehs, if that's how you pronounce his name,
2 M-E-H-S, on behalf of Cornelia England, Gerald Carl
3 Golden, Sharon Aileen Mehs, and Thomas Mehs.

4 These are done strictly for the purpose of
5 establishing themselves as a party of record. They
6 do not express an opposition or support for the
7 application at this time.

8 MADAM CHAIR BAILEY: Mr. Feldewert, do you
9 have an opening statement?

10 MR. FELDEWERT: I do, Madam Chair.

11 OPENING STATEMENT

12 BY MR. FELDEWERT:

13 I have up on the screen what is actually
14 Slide 1 of Exhibit 4. And the reason I have that up
15 there now is because last May we were before this
16 same commission on an application involving the
17 South Hobbs Unit, which is outlined in red.

18 And at that time you may recall we sought
19 approval to convert the South Hobbs Unit from a
20 waterflood to a tertiary recovery project in the
21 Grayburg-San Andres formation.

22 And actually, Exhibit 3 in our exhibit
23 notebook is the order that was entered by the
24 commission approving the injection of CO2-produced
25 gas and produced water into the South Hobbs Unit for

1 that tertiary recovery project.

2 I have many of the same witnesses back
3 here today as testified in May. But today our
4 subject is the North Hobbs Unit, which is outlined
5 in black on that Slide 1 of Exhibit Number 4.

6 Within the North Hobbs Unit there's an
7 area called the Phase I area. And that was approved
8 for a tertiary recovery project, the injection of
9 CO2, the injection of produced gas, and the
10 injection of produced water.

11 Back under Division Order 6199-B, which is
12 actually Exhibit 2 in our notebook -- and that was,
13 at that time, entered by the division in 2001. It
14 covered the Phase I area.

15 So the rest of the North Hobbs Unit was
16 operating as -- and is still operating -- as a
17 waterflood.

18 So I think the first point I want to make
19 is what we're seeking here today is really not
20 anything new with respect to that North Hobbs Unit.
21 We are seeking to expand the current tertiary
22 recovery project geographically to include most, but
23 not all, of the North Hobbs Unit. And the remainder
24 of that North Hobbs Unit will continue to operate as
25 a waterflood.

1 The other thing that we're seeking here is
2 to change a few of the operating requirements, many
3 of which you are familiar with from your decision in
4 the South Hobbs Unit.

5 As a matter of housekeeping, we've
6 provided two notebooks. And unfortunately, they're
7 both white. I think next time I'm going to make one
8 black and one white.

9 But we have -- the first white notebook is
10 entitled Application Form C-108. That, we would
11 submit as Oxy Exhibit Number 1. It contains the
12 application, it contains the exhibits, it contains
13 the C-108, it contains the area review information.

14 The second notebook is really our notebook
15 of the additional exhibits which start as Exhibit
16 Number 2. So the first notebook being Exhibit
17 Number 1, the second notebook containing what is now
18 Exhibits 2 through 15.

19 Before we move through the -- you know,
20 before our presentation here today and move through
21 the witnesses and the exhibits, I thought it might
22 be helpful to just kind of walk through the relief
23 that we requested.

24 And for ease of the commission, it's
25 actually in that white notebook in our application,

1 starting on the first page. And I thought it might
2 be helpful just to walk through it, to give you an
3 idea of what we're looking at. And so it would be
4 the notebook that has the C-108 application.

5 On the first -- the first page of that
6 should be our ap- -- in that notebook -- should be
7 our application. And there's going to be a series
8 of paragraphs A through J. That comprises the
9 relief that we seek.

10 And the first one is fairly
11 straightforward.

12 The first relief that we seek, as
13 reflected on the first page of the application in
14 the front of that first notebook, we seek to expand
15 the geographic area of the North Hobbs Unit. And
16 the acreage that we -- which we seek to expand is
17 identified in paragraph A of that application.

18 The second relief that we seek is
19 paragraph B. And it is to add -- I guess no
20 surprise -- additional injection wells. And that
21 would be additional injection wells in the current
22 Phase I area as well as the expanded geographic
23 area.

24 The -- and those are actually listed as
25 Exhibits A and B to the application.

1 Exhibit A, we identify those injection
2 wells by quarter-quarter section, because those will
3 be new drills. We're not exactly sure where we're
4 going to put them.

5 And then Exhibit B identifies the wells
6 that are going to be converted from producing wells
7 to injection wells.

8 The third relief we seek is really -- I
9 put it in here only because there's some confusion
10 in -- I believe in the rules.

11 We just want to confirm that for a
12 tertiary recovery project you can have more than
13 four wells per 40.

14 The reason there's some confusion is
15 because Rule 19.15.15.9(A) currently states that you
16 can have more than four wells -- and I quote -- for
17 secondary recovery projects.

18 I think the division meant to include
19 tertiary, but the word tertiary is not in there,
20 although in another rule you will see that they
21 differentiate between secondary recovery projects
22 and tertiary recovery projects. So we're asking the
23 commission to clarify that. Like secondary recovery
24 projects, you can have more than four wells in a
25 40-acre spacing unit for a tertiary recovery

1 project.

2 The fourth relief that we seek in
3 paragraph B of our application is we ask for
4 authority to locate wells closer than 10 feet to the
5 quarter-quarter section lines within the expanded
6 Phase I area.

7 The unorthodox well rule currently states
8 that in -- and it says secondary recovery and
9 tertiary recovery projects -- wells are to remain
10 10 feet from the quarter-quarter line.

11 Now, I'm not quite sure of the origin of
12 that requirement. I don't quite understand it.
13 And -- but it seems rather odd to me, when we're
14 dealing with that kind of a -- this kind of a
15 project, that you have to maintain that distance.

16 But Oxy's working with existing wells.
17 They want to keep their 5-spot pattern. And there's
18 going to be -- they believe there's going to be
19 circumstances where, because of the location of
20 wells and in order to keep that 5-spot pattern, they
21 may need to encroach on closer than 10 feet to the
22 quarter-quarter line. So we ask for some relief
23 there with the location of the wells.

24 We -- on -- in paragraph E we ask for an
25 exception to the notice requirements for the

1 approval of any additional injection wells as this
2 project moves forward.

3 We attempted, in Exhibits A and B, to
4 identify what they are going to need on a go-forward
5 basis, but this project is going to be a long-term
6 project. And we may -- there may be instances where
7 they need to locate injection wells that are not set
8 forth in Exhibit A and Exhibit B.

9 And so we ask for the ability, if that
10 occurs, to ask for administrative approval without
11 notice and hearing, because we've already done an
12 extensive study.

13 And if you look -- if I may indulge you to
14 take a look at Exhibit 3 in the notebook.

15 And I'm actually going to start kind of
16 flipping back and forth here in that
17 exhibit notebook for the remainder of the relief.

18 But if you will turn to Exhibit E, that is
19 the order that you entered last year for the South
20 Hobbs Unit.

21 And if you'll turn to page 11 of that
22 order, paragraph -- page 11, paragraph 3, the last
23 sentence is what -- last year you authorized the
24 administrative approval of additional injection
25 wells without notice and hearing for the unit.

1 That's -- we seek the same type of relief
2 now for this expanded area in the North Hobbs Unit.

3 The next item of relief we seek is,
4 because there is a long lead time in this project --
5 it's very capital intensive, it's going to take a
6 long time to put in. They are still going to be
7 working on wells, they project, into the year 2020.
8 Some of these wells may not commence injection
9 for -- until two years from now.

10 And so we are essentially asking for a
11 five-year grace period on the extensive area of
12 review analysis that has been done and which we are
13 going to go over with you today. It took a lot of
14 time and a lot of effort.

15 And what you will find out from the
16 witnesses, that much of this area that they had to
17 review has been reviewed over and over again in
18 connection with South Hobbs Unit, North Hobbs Unit
19 expansions, et cetera. So it's had a lot of
20 analysis. And there have been very few changes,
21 because Oxy is the only operator.

22 And so because of this work that's already
23 been done, we would ask for that five-year grace
24 period.

25 And if you stay with Exhibit Number 3 and

1 if you will go to page 11 where you're at and you
2 look at paragraph 5, that I call the five-year grace
3 period that you entered for the South Hobbs Unit,
4 we're just asking for the same language, the same
5 relief as is in paragraph 5 now for the North Hobbs
6 Unit. We'll just need to change the description
7 from south -- the statement from South Hobbs to
8 North Hobbs.

9 If you then turn to Exhibit Number 2,
10 which is Order 6199-B.

11 So Exhibit 2 in our notebook is the order
12 that was entered by the division back in 2001
13 governing the North Hobbs Unit, the current Phase I
14 area.

15 And we were -- what -- when we were going
16 through that, what surprised me is -- if you go to
17 page 12 of that order that was entered back in 2001.

18 If you go to page 12, paragraph 17, the
19 order in paragraph 17, it has a limiting gas/oil
20 ratio.

21 I think the division and the commission
22 have recognized that, really, that doesn't make a
23 lot of sense in any gas injection project like this.
24 And so we ask that that GOR limitation be
25 eliminated. And if -- actually, if you look at --

1 back at your order from last year, Exhibit 3,
2 paragraph -- ordering paragraph 21.

3 For the South Hobbs Unit it's on page 13
4 of your order from last year, paragraph 21. It says
5 that no limiting gas/oil ratio or oil allowable
6 applies to this enhanced oil recovery project.

7 We just ask for the similar statement in
8 the North Hobbs Unit, so that we don't have this
9 restriction that really should not apply to a -- at
10 least in our opinion -- to a tertiary recovery
11 project like this.

12 Staying with that -- with that order where
13 you're at now on Exhibit Number 3, if you go to
14 page -- you're on page 13. If you go to paragraph
15 16 of that order, you provided the relief that for
16 TA wells that are equipped with those realtime
17 pressure monitoring divisions that Oxy has, that are
18 connected to their SCADA system, that you provided
19 that for those -- only for those wells that are
20 equipped with that realtime pressure monitoring
21 device, you said that they could have -- granted the
22 five-year period before there has to be another
23 mechanical integrity test.

24 We ask for that same kind of relief for
25 the expanded area of the North Hobbs Unit. And we

1 will have a witness who will again talk about that
2 SCADA system, about those realtime monitors, and why
3 that makes just as much sense for the North Hobbs
4 Unit as it does for the South Hobbs Unit.

5 Finally, the final aspect of the relief
6 that we request is really something that Oxy hopes
7 it never has to use. But that would be to certify
8 this expanded area for the tax -- the recovered oil
9 tax rate under the New Mexico Enhanced Oil Recovery
10 Act. And we will have a witness who will hit all
11 the touchstones necessary to certify this expansion
12 for that tax rate.

13 So that's the universe of relief that we
14 seek under this application. As you'll see, much of
15 that was addressed by the commission last year. And
16 in fact, since we have the same commission and no
17 other parties here today, I -- and because we
18 referenced this actually as an option in our
19 application, I think it might be helpful to
20 incorporate the record from Case Number 14981
21 involving the South Hobbs Unit into the record of
22 this case, because I didn't bring all of the
23 witnesses. You know, we had that testimony.

24 We have five witnesses here today, but we
25 didn't bring all of them because -- only because we

1 wanted to be as efficient as possible. We think we
2 can cover what they covered last year. But also, if
3 we incorporate that record we have that additional
4 backup.

5 And now that the commission has a better
6 understanding of what -- of what Oxy is doing out
7 there, I guess, you know, I just felt like we could
8 cut down on some time and take less of your time,
9 and I brought five witnesses here today.

10 It's still going to take us about three
11 hours, at least for my portion is what I estimate,
12 to get through what they have to say.

13 But we're confident -- I'm going to move
14 along as efficiently as possible, but at the same
15 time provide you all the information that I think
16 you need to make an informed decision on this
17 matter.

18 So with that said, I think we're ready to
19 proceed with our first witnesses -- our first
20 witness. I don't know if you want them all to be
21 sworn at the same time or individually.

22 MADAM CHAIR BAILEY: Individually works.

23 MR. FELDEWERT: Then at this point with
24 your permission, unless you have any questions about
25 the relief we seek, I can start with our first

1 witness.

2 MADAM CHAIR BAILEY: Commissioners, do you
3 have any objection to incorporating the record of
4 the South Hobbs?

5 COMMISSIONER BALCH: I have no objection.

6 COMMISSIONER WARNELL: No objection.

7 MADAM CHAIR BAILEY: Then that will be
8 accepted.

9 MR. FELDEWERT: I guess the second thing,
10 as a matter of housekeeping at this point if I
11 could, I would introduce Oxy Exhibit Number 1, which
12 is the notebook containing the application and the
13 Form C-108 in the area of review.

14 Oxy exhibit -- and then Oxy Exhibits 2 and
15 3, which are the orders that we just reviewed.

16 MADAM CHAIR BAILEY: Those exhibits are
17 admitted.

18 MR. FELDEWERT: Madam Chair, with your
19 permission, we will call our first witness.

20 MADAM CHAIR BAILEY: Please do.

21

22

23

24

25

1 JERAD BROCKMAN,

2 after having been first duly sworn under oath,
3 was questioned and testified as follows:

4 EXAMINATION

5 BY MR. FELDEWERT:

6 Q. Would you please state your name, identify
7 by whom you are employed, and in what capacity?

8 A. My name is Jerad Brockman. I'm employed
9 by Oxy as a production engineer.

10 Q. And how long have you been a production
11 engineer for Oxy?

12 A. Four years -- just over.

13 Q. Do your employment responsibilities
14 include the North Hobbs Unit and the South Hobbs
15 Unit?

16 A. Yes, they do.

17 Q. Are you actually the project manager for
18 those units?

19 A. Yes.

20 Q. Okay. And involved in the -- and
21 operating as a production engineer for those two
22 units?

23 A. Yes. I've been the production engineer
24 for the South Hobbs Unit since January of 2010, and
25 then for the North Hobbs Unit since August of 2010.

1 Q. And, Mr. Brockman, did you have the
2 opportunity to testify before this commission with
3 respect to the application that resulted in the
4 approval of a tertiary recovery project for the
5 South Hobbs Unit?

6 A. Yes, I did.

7 Q. Were your credentials at that time as an
8 expert in petroleum and production engineering
9 accepted and made a matter of public record?

10 A. Yes, they were.

11 Q. Are you familiar with Oxy's application in
12 this case?

13 A. Yes, I am.

14 MR. FELDEWERT: Madam Chair, at this point
15 I would re-tender Mr. Brockman as an expert witness
16 in oil and gas petroleum and production engineering.

17 MADAM CHAIR BAILEY: He's accepted.

18 Q. (By Mr. Feldewert) Mr. Brockman, I want
19 to turn to the notebook that has Oxy's exhibits.

20 I want to go to exhibit number -- Oxy
21 Exhibit Number 4.

22 Does this Exhibit Number 4 contain the
23 slides that you prepared in your presentation to the
24 commission here today?

25 A. Yes, it does.

1 Q. And it consists of a total of 10 slides.

2 Is that correct?

3 A. Yes.

4 Q. If I turn to Slide 1 of Exhibit 4, would
5 you please discuss with the commission the location
6 of these units and then what you're showing here on
7 this first slide?

8 A. Sure. Slide 1, there are two maps on it.
9 The smaller map off to the right is the Permian
10 Basin.

11 So the smaller map to the right is the
12 Permian Basin.

13 This is the state line between Texas and
14 New Mexico. New Mexico is to the northwest, and
15 then Texas everywhere else.

16 All of these green little blobs on this
17 map are major Permian fields that Oxy operates.

18 This field in Lea County with the red
19 square around it is the Hobbs field.

20 A blowup of the Hobbs is shown in the
21 larger map to the left.

22 The Hobbs reservoir is actually made up of
23 two units, the North Hobbs Unit and the South Hobbs
24 Unit.

25 The South Hobbs Unit is shown here in red,

1 and then the North Hobbs Unit is shown in the black
2 outline.

3 Also shown in here is an approximation of
4 the Hobbs city limits. This is in green. You can
5 see that a portion of both the North Hobbs Unit and
6 South Hobbs Unit are inside of the city limits of
7 Hobbs.

8 Q. Now, in -- what's the formation into which
9 you are conducting -- or engaged in your waterflood
10 operations?

11 A. The Grayburg-San Andres formation.

12 Q. And is that the same formation that is
13 currently subject also to the tertiary recovery
14 project in both the North Hobbs and the South Hobbs
15 Units?

16 A. That's correct.

17 Q. Then today, our focus now is on the North
18 Hobbs Unit, correct?

19 A. Correct.

20 Q. Why don't you turn, then, to what's been
21 marked as Slide Number 2 of Exhibit 4.

22 And will that assist you in discussing
23 with the commission what is the current operations
24 in the North Hobbs Unit?

25 A. Yes. So I'll walk through this slide

1 also.

2 Shown again in black is the outline of the
3 North Hobbs Unit.

4 This red outline inside of it is the
5 current Phase I injection area. In the Phase I area
6 we have CO2 and produced gas injection. The
7 produced gas injection wells are shown as the red
8 triangles kind of off towards the northwest.

9 And then the orange triangles, as you move
10 farther southeast, are the purchased CO2 injection
11 wells.

12 The green dots located around all of the
13 injection wells are our producers.

14 The blue triangles farther southeast are
15 the current water injection wells. And you can see
16 that a portion of those are actually inside of the
17 Phase I area and a portion of them are outside of
18 the Phase I area.

19 All of the gray circles I have labeled as
20 inactive wells. Looking at it now, I probably
21 should have relabeled that. Those are either
22 temporary abandoned or plugged and abandoned
23 wellbores. I made no distinction between the two on
24 this map.

25 Q. And with respect to the waterflood

1 operations in the North Hobbs Unit, when did they
2 first commence in the Grayburg-San Andres formation?

3 A. The waterflood in North Hobbs started in
4 1980.

5 Q. Okay. So you've had, roughly, almost 35
6 years of development as a waterflood?

7 A. That's correct.

8 Q. At what time frame, then, did the Phase I
9 area of the North Hobbs Unit move to a gas injection
10 project, a tertiary recovery project?

11 A. The order was adopted or approved in 2001,
12 and then the first injection started a couple of
13 years later, in 2003.

14 Q. Okay. So we've had more than ten years of
15 gas injection within the Phase I area of the North
16 Hobbs Unit?

17 A. That's correct.

18 Q. Let's turn, then, to Slide 3 and discuss
19 what the company -- what you are going to address
20 with the division -- or with the commission -- with
21 respect to the relief that is sought under this
22 application.

23 A. Sure. So the first thing I will testify
24 to is the expanded Phase I geographic area.

25 As part of that, I would like to testify

1 to the -- to expand the injection authority to
2 include new wells on a quarter-quarter section or
3 the conversion of existing wells to CO2 or produced
4 gas injection wells.

5 We would like the grant exception to allow
6 wells to be closer than 10-foot to the interior
7 quarter-quarter section.

8 We would also like to confirm that the
9 well limitation for quarter-quarter sections does
10 not apply to a tertiary recovery project.

11 And then finally, to modify the packer
12 setting depth requirement to allow the injection
13 packer to be set anywhere within the top of the
14 Grayburg formation.

15 Q. With that in mind, let's turn to a
16 discussion of the geographic expansion of the
17 Phase I area and the new injection authority.

18 And I think it would be of assistance to
19 turn to Slide 4.

20 A. Okay.

21 Q. And is an animation, at least on the
22 screen, associated with Slide 4?

23 A. Yes, sir, it is.

24 Q. Okay. What are we showing in the first
25 animation?

1 A. Sure. So in purple this time is the --
2 again, the North Hobbs Unit outline.

3 Each of these boxes is a section line, so
4 it's a mile east and west and a mile north and
5 south.

6 Shown in this dashed line is an
7 orientation, just the difference between Township
8 38S, Range 37E and 38E. That's what this dashed
9 line depicts.

10 If you'll click.

11 So this green shaded area is the current
12 Phase I geographic area.

13 Click again.

14 This blue portion is the geographic
15 expansion that we're asking for.

16 Q. Now -- so you're not seeking to expand the
17 gas injection for the entire North Hobbs Unit, but a
18 larger portion of it, correct?

19 A. That's correct.

20 Q. What will happen with respect to the
21 remaining aspect of the Hobbs Unit to the east --
22 North Hobbs Unit to the east?

23 A. It will continue to operate as the
24 waterflood with the wells that we have left in that
25 part of the field.

1 Q. Okay. What's this next animation?

2 A. Sure. So shown here in triangles are all
3 of the additional wells that we have asked for in
4 the authority to inject into.

5 The same color scheme as before. The
6 orange triangles are purchased CO2 injection wells.
7 And the red triangles off to the northwest are
8 produced gas injection wells.

9 You can see on the northwest, where these
10 patterns are a lot more regular, these are the
11 quarter-quarters that we have asked for.

12 And then as you move towards the
13 southeast, where our current waterflood operations
14 are, these are the conversions of existing wells
15 that we're talking about predominantly.

16 Q. And why do you identify certain locations
17 by simply quarter-quarter sections?

18 A. Sure. There are a lot of existing wells
19 there. That's where our current flood is.

20 And to -- we're going to be targeting a
21 deeper portion of the San Andres with this project.
22 And to realize a better suite efficiency, we're
23 going to have to drill additional injection wells.

24 We're not sure where exactly we could put
25 those wells, just because there are so many wells

1 out there. So we want the flexibility to be able to
2 stick them -- or place them within that
3 quarter-quarter.

4 Q. Now with respect to the bottom right-hand
5 corner of this depiction, the -- there's a number of
6 wells that don't follow that pattern.

7 Are those specific wells?

8 A. Yes, those are existing wells.

9 Q. With API numbers?

10 A. Yes.

11 Q. Okay. And if I look at the application
12 that was filed by Oxy, there is an Exhibit A of that
13 application which is actually in the -- Oxy's
14 Exhibit Number 1.

15 Under the tab "Application," there should
16 be an Exhibit A. So if you would turn to that book,
17 Mr. Brockman, and go to the tab under "Application."
18 It should be the first tab. There's an Exhibit A.

19 A. Okay.

20 Q. And does that list all of the wells of the
21 injection authority that you seek by quarter-quarter
22 section?

23 A. Yes, it does.

24 Q. And does that correspond with the -- a
25 number of the triangles, then, that are shown on

1 Slide 4?

2 A. Yes.

3 Q. And if I page through that, at -- after
4 the fourth page there is an Exhibit B, correct?

5 A. Correct.

6 Q. And that is entitled "List of proposed
7 project injectors, existing wells"?

8 A. That is correct.

9 Q. And it provides the API number of those
10 wells?

11 A. Yes.

12 Q. And is that -- are those the wells that
13 you know that you're going to convert to -- or that
14 you hope to convert to injection wells?

15 A. That's correct.

16 Q. All right. And again, then, those
17 correspond to -- most likely, I guess it would be
18 the orange triangles more towards the bottom
19 right-hand corner of the Slide Number 4?

20 A. That's correct.

21 Q. All right.

22 Will some of the proposed wells be
23 directionally drilled?

24 A. Yes, they will.

25 Q. On this particular exhibit, did you then

1 identify the surface locations of those wells?

2 A. Yes.

3 Q. And I believe there's one more piece of
4 animation on this slide.

5 A. Yes, one more.

6 Q. With that said, let's go to the last...

7 A. Click one more time.

8 So my map is kind of busy here, so I
9 didn't depict this on the actual map. I had this
10 depiction to the right instead.

11 So each one of these injection wells will
12 be surrounded by four producers in our 40-acre
13 5-spot pattern. So if you can imagine throughout
14 this map there will be a producer here and a
15 producer here.

16 As part of this project, a majority of
17 these producers already exist. We're going to
18 deepen them or convert them and, you know, get them
19 ready for CO2 injection.

20 At other points we're going to have to
21 drill new producers as well.

22 But you can imagine that along this map
23 there will be a corresponding core of producers
24 around every triangle.

25 Q. Now, will the -- this 40-acre 5-spot

1 pattern, in your opinion, will that assist in
2 confining the horizontal migration of the injection?

3 A. Yes.

4 Q. And allow the company to reuse the
5 produced gas -- or capture and reuse the produced --
6 the injected gas and the injected water?

7 A. Yes.

8 Q. All right. I want to talk about, then,
9 the next topic. And that is the number of wells per
10 40 acres.

11 In your opinion, Mr. Brockman, in order to
12 properly implement this 40-acre 5-spot pattern,
13 given the number of wells that currently exist, is
14 it going to be necessary at times to have more than
15 four wells per 40 acres?

16 A. Yes, it will.

17 Q. And so do you seek to confirm the
18 authority to exceed the four-well limitation for
19 tertiary recovery projects?

20 A. Yes.

21 Q. The other aspect of the relief that you
22 seek is you ask that they allow the company to, as
23 necessary, locate a -- either a producer or an
24 injection well closer than 10 feet to the
25 quarter-quarter line.

1 A. That's correct.

2 Q. Can you discuss the need for that
3 exception?

4 A. Yes. As we're going to be drilling a
5 substantial amount of wells on this part of the
6 field where we already have several wellbores, we're
7 going to need the flexibility to put these wells in
8 unorthodox locations. And we don't want to be
9 drilling the well and run a directional survey and
10 realize that we're going to project our bottom hole
11 location out to 10 -- right on an anterior boundary
12 and have to trip out and go back in with directional
13 tools to move it away from a boundary inside of our
14 own unit.

15 Q. And so in your opinion, do you think
16 that -- are you going to need that flexibility, as
17 you move forward with this project, in order to
18 maintain the integrity of your 5-spot pattern?

19 A. That's correct.

20 Q. Okay. Then I want to move to a new
21 subject.

22 A. Okay.

23 Q. And that is reflected in Oxy Exhibit 4,
24 Slide 5.

25 Now, we are talking about an expansion of

1 an existing tertiary recovery project, correct?

2 A. Correct.

3 Q. Expanding the Phase I area.

4 With the assistance of this exhibit, would
5 you just please orient the commissioners as to what
6 is -- currently occurs with respect to the surface
7 facilities for the existing operation?

8 A. Yes. So this flow diagram is both what we
9 have now and what we'll be adding on as part of this
10 project.

11 If you will start in the top left corner
12 you see producing wells represented by the green
13 circle.

14 At the producing wells we have the flow
15 line to them. At that flow line, the oil, water,
16 and gas produced from the wellbore is transferred to
17 a production satellite.

18 At the production satellite the liquids,
19 the oil and water, are sent to a tank battery, and
20 the produced gas is sent to our existing reinjection
21 compression facility.

22 Q. Okay. Let me stop you right there,
23 because I think we have a picture of one of those
24 satellites. If we just keep a finger on this
25 portion of the notebook and we flip over to

1 Exhibit 6, the first page.

2 A. Yes.

3 Q. Is that a picture of a current -- what you
4 call a satellite?

5 A. Yes, it is.

6 Q. Okay. And that's currently -- that's an
7 existing picture in the North Hobbs Unit?

8 A. Yes.

9 Q. How many of those satellites do you
10 currently have?

11 A. I don't know the exact number. It's six
12 or seven, I believe. But...

13 Q. And this is the -- this is the area where
14 both the produced product comes in and the injection
15 liquids and gas go out?

16 A. That's correct. The production site is a
17 gathering system, which we gather all the production
18 from individual wells. And the injection side of
19 the unit is the distribution center, where we take
20 all of our injection from the RCF or from our
21 produced water, and it's distributed to all of the
22 individual injection wells.

23 Q. Then -- I interrupted you. Would you
24 continue on with your discussion of your surface
25 facilities that are necessary to implement these

1 projects?

2 A. Sure. So after the produced gas is sent
3 to the RCF, or the reinjection compression facility,
4 it's dehydrated and compressed and sent to the
5 injection satellites that we just saw.

6 Also at that satellite, CO2 from the
7 pipeline is sent to those, as well as produced water
8 that is separated at our tank battery.

9 From there the injection satellites -- all
10 of the injected fluids are sent to individual wells
11 to -- which are depicted in the orange triangle
12 there.

13 At the tank battery we separate the oil
14 and water. The oil we sell, and the produced water
15 is sent to the injection satellite.

16 Q. Now these current facilities out there,
17 they allow you to capture and reinject produced
18 water?

19 A. That's correct.

20 Q. They allow you to capture and reinject
21 produced gases?

22 A. That's correct.

23 Q. And then they also, then, allow you to add
24 additional CO2 from other sources when needed?

25 A. That's correct.

1 Q. Would the expansion of the Phase I area
2 require additional facilities?

3 A. Yes. We'll have to add new satellites.
4 We'll expand compressions of the existing rejection
5 compression facility. We have to upgrade our tank
6 batteries and add new injection satellites as well.
7 And then every well will, obviously, need either a
8 producing flow line or an injection line.

9 Q. And is that a substantial capital
10 investment for the company?

11 A. Yes, it is.

12 Q. Does it take a while to get these
13 facilities designed, constructed, and built?

14 A. That's correct.

15 Q. If I turn to what has been marked as Slide
16 6 in Exhibit Number 4, does that -- is that a graph
17 that gives the commissioners at least a depiction,
18 from a graphic standpoint, of the amount of money
19 and the time line that is involved with this
20 expansion project?

21 A. Yes, it does.

22 Q. Okay. Why don't you orient us to the axes
23 and the colors please?

24 A. So on the X axis this time every year is
25 depicted.

1 On the left axis is millions of dollars
2 spent per month.

3 And on the right axis is the total spent.

4 Each of the bars corresponds to the
5 monthly spend. And then if you go to the left axis
6 and then the dark black line is the cumulative
7 spend, and it goes to the right.

8 The bar charts are color coded between
9 well work and drilling in green, and then filled in
10 RCF facilities in red.

11 So you see that our anticipated start of
12 injection for this project is in September of 2016.
13 So you can see that preceding year and a half
14 before, then, we ramp up quite a bit of spending on
15 the facility and just all the construction.

16 And then going forward through the next
17 five years after that we continue to add patterns
18 and wells, which you can see in the green columns
19 going all the way to the right of the graph, and
20 then their associated facilities continue to stretch
21 out until 2020.

22 Q. So you're going to be doing well work
23 past, what, 2021?

24 A. That's correct.

25 Q. And then the dark line is your estimated

1 total capital expenditure?

2 A. That's correct.

3 Q. And that's millions of dollars?

4 A. That's in millions of dollars.

5 Q. Anything else about this exhibit?

6 A. No, that's it.

7 Q. Then let's turn to Slide 7 of Exhibit
8 Number 4.

9 Does this give the commission a projected
10 time line of, really, the major milestones of this
11 expansion project?

12 A. That's correct. In August we plan to
13 begin our detailed design engineering. Once that
14 gets underway we'll be able to start procurement at
15 the end of this year, in December.

16 We'll actually start construction on the
17 field in August of 2015, and then the expansion of
18 the RCF in April of 2015.

19 We expect to start most of our well
20 workovers and drilling the first part of 2016, with
21 the additional compression and first injection of
22 the expansion area ready to go in September of 2016.

23 Q. Then if I move on to Slide 8 of Exhibit 4,
24 what does this show us?

25 A. This is just a production plot of the

1 North Hobbs Unit since discovery, as you go through
2 primary to waterflood to the tertiary.

3 Q. So that first well was sometime back in
4 the 1930s?

5 A. I think the discovery well in the Hobbs
6 field was in 1928.

7 Q. Okay.

8 A. Shown in green is oil. In blue is water
9 production. And in red is gas production.

10 You can see that the waterflood started
11 with this black line in 1980, and you can see the
12 corresponding increase in both water production and
13 oil production.

14 The Phase I CO2 flood started in 2003.
15 Again, you can see that with the large increase in
16 gas production and then the subsequent oil
17 production response as well.

18 The forecast going forward, starting with
19 the Phase I expansion, is shown in this final black
20 vertical line. And again, you can see the large
21 increase in oil production and the increase in
22 compression and gas production also.

23 Q. Why is the gas line in red flat after you
24 start your Phase I -- or shortly before and after
25 you do your Phase I expansion?

1 A. Yes. So our gas production is limited by
2 the amount of compression we have available. And so
3 these patterns are timed in so that we keep -- we
4 don't want to build too many compressors in size for
5 a peak. And so we limit the amount of compression
6 we have and stage these patterns in over time. It
7 becomes more capital efficient.

8 Q. Now, do you require any makeup water for
9 this project?

10 A. Currently, North Hobbs takes in the makeup
11 water.

12 Q. You use all just produced water?

13 A. Produced water. Historically, North Hobbs
14 has taken water from the City of Hobbs, the fluent
15 water, but we don't do that anymore.

16 The South Hobbs takes water from the City
17 of Hobbs.

18 Q. And at some point do you anticipate that
19 you will no longer need to produce -- or purchase
20 CO2 to provide enough gas to keep this project
21 moving forward?

22 A. Eventually it becomes uneconomic to
23 continue to purchase CO2. You just don't get enough
24 oil for the cost of each molecule of CO2 that you
25 are purchasing, so it becomes an economic decision

1 to quit injection -- or quit CO2 purchases.

2 Q. You would just continue to reinject
3 produced gas?

4 A. That's correct.

5 Q. Okay. In your opinion, Mr. Brockman, has
6 this -- speaking a little bit on the tax credit
7 side.

8 In your opinion, has this application been
9 prematurely filed?

10 A. No, it is not. We're about to start
11 spending, you know, all the money going into the
12 detailed design engineering. And it's nice to have
13 the authority to inject already granted at that
14 point.

15 Q. Is -- the area that's subject to the
16 Phase I expansion, has it been depleted to a point
17 where it is prudent to begin moving from a
18 waterflood to a tertiary recovery project?

19 A. Yes, it has.

20 Q. And in your opinion, is this expansion
21 project economically and technically reasonable?

22 A. Yes, it is.

23 Q. And just as a matter of housekeeping here,
24 we've talked about the approval of additional
25 injection wells and the other relief that the

1 company is seeking.

2 Is Oxy in any way seeking to change the
3 maximum surface injection pressures that have been
4 previously approved by the division for the Phase I
5 area?

6 A. No.

7 Q. Okay. Now, the -- those surface injection
8 pressures will allow the company to maintain the
9 reservoir pressure just above the admissibility
10 pressure?

11 A. That's correct.

12 Q. The last topic, Mr. Brockman, I want to
13 talk about is the packer setting depth issue.

14 If you would be so kind as to turn to Oxy
15 Exhibit Number 2, which is the current order
16 governing the North Hobbs operation.

17 And in Exhibit Number 2, if you could flip
18 over, then, to page 9.

19 So if I'm looking at Exhibit Number 2 at
20 page 9, paragraph 3, the first sentence indicates
21 that the -- a packer is to be set within 100 feet of
22 the uppermost injection perforation in each well.

23 Do you see that?

24 A. Yes, I do.

25 Q. Okay. Has that operational restriction

1 caused issues and problems for the company over
2 time, now that we're moving forward with this
3 project?

4 A. Yes. Since the waterflood has been going
5 on since 1980, a number of these injection wells
6 have been worked over several times.

7 Each time you work over an injection well
8 you have to move the packer just a little bit higher
9 up the hole in order to get a good seat on some
10 casing that's not been exposed to injected fluids.

11 Over time you just run out of room between
12 100-foot of your top perforation -- or between your
13 top perforation and 100 feet -- to move up this
14 packer.

15 And so we find situations in wells where
16 we cannot get packer seats within 100 feet, and we
17 have to ask for exceptions to this rule.

18 Q. So you're looking for smooth casings to
19 get good seals.

20 Is that about right?

21 A. That's correct.

22 Q. If I then turn to Oxy Exhibit Number 3,
23 which is the order that was entered by the
24 commission last year, and if I turn to page 9 and I
25 go to paragraph 27 of that order -- and I also note

1 that it's depicted as Slide 9 of Exhibit Number 4.

2 That addressed the -- this packer setting
3 depth issue for the South Hobbs Unit, did it not?

4 A. Yes, it did.

5 Q. And if I look at paragraph 27, it gives
6 you some flexibility in setting the packer so long
7 as it is below the top of the Grayburg formation?

8 A. That's correct.

9 Q. Does Oxy seek the exact same relief here
10 for this phase and expanded Phase I area in the
11 North Hobbs Unit?

12 A. Yes, we do.

13 Q. Now last year, when you were here before
14 the commission, did you testify at the hearing in
15 support of this language?

16 A. Yes, I did.

17 Q. Did you understand, Mr. Brockman, the
18 geologic testimony that supported this particular
19 provision?

20 A. Yes, I did.

21 Q. As part of your work do you routinely
22 realize and analyze pipe -- well pipe logs?

23 A. Yes, I do.

24 Q. Because this particular provision reflects
25 that there was geologic and other evidence presented

1 to indicate that this kind of change would not pose
2 a threat.

3 And are you familiar with that evidence?

4 A. Yes.

5 Q. If I turn to the next slide, which is
6 Slide 10 of Exhibit Number 4, does this contain the
7 same pipe logs that were presented to the commission
8 last year to support the packer setting language
9 that was adopted for the South Hobbs Unit?

10 A. Yes.

11 Q. In fact, the same pipe logs?

12 A. Yes, the same slide.

13 Q. Okay. It shows a well from the North
14 Hobbs Unit and a well from the South Hobbs Unit,
15 correct?

16 A. That's correct. The North Hobbs Unit well
17 is on the left.

18 Q. And the South Hobbs on the right?

19 A. That's correct.

20 Q. Okay. And this is one -- basically, a
21 similar geologic structure?

22 A. Yes.

23 Q. And does the company have a geologist that
24 will testify further in connection with the barriers
25 that exist between the injection interval and the

1 shallower formations?

2 A. Yes.

3 Q. Okay. Based on your understanding of that
4 geologic evidence, will the adoption of a packer
5 setting flexibility that we see in the South Hobbs
6 Unit, if that was applied to the North Hobbs Unit as
7 well, is that going to pose an unreasonable risk to
8 the public health or the environment?

9 A. No.

10 Q. And will it give the company the
11 operational flexibility to set these packers that it
12 needs as it moves forward?

13 A. Yeah. We'll set them as low as
14 practicably possible. But moving forward, it will
15 give us a little more flexibility as we work over
16 these wells into the future.

17 Q. Now, I think you've mentioned that the
18 current Phase I injection in the North Hobbs Unit
19 commenced back in 2003.

20 A. That's correct.

21 Q. Okay. Since that period of time has the
22 company been successful in recovering additional oil
23 without endangering the public health and the
24 environment?

25 A. That's correct.

1 Q. And does Oxy intend to monitor and operate
2 the new facilities necessary for the Phase I
3 expansion in the same fashion as it has for its
4 current facilities over the last ten years?

5 A. Yes.

6 Q. And in your opinion, will the granting of
7 the relief sought in this application allow for the
8 recovery of additional oil that may otherwise be
9 wasted?

10 A. Yes.

11 Q. And will the expansion of the Phase I area
12 and the approval of the relief requested in this
13 expanded Phase I area continue to provide a
14 reasonable level of protection to the public health
15 and the environment?

16 A. Yes.

17 Q. Were the slides that comprise Oxy Exhibit
18 Number 4 compiled by you or under your direction or
19 supervision?

20 A. Yes.

21 MR. FELDEWERT: Madam Chair, at this point
22 I would move the admission into evidence of Oxy
23 Exhibit Number 4.

24 MADAM CHAIR BAILEY: It is admitted.

25 MR. FELDEWERT: That concludes my

1 examination of this witness.

2 MADAM CHAIR BAILEY: Why don't we take a
3 10-minute break before we have commission questions.

4 (A recess was taken from 10:13 a.m. to
5 10:24 a.m.)

6 MADAM CHAIR BAILEY: Mr. Balch, do you
7 have questions of this witness?

8 COMMISSIONER BALCH: I have a couple of
9 questions.

10 Good morning, Mr. Brockman.

11 THE WITNESS: Good morning.

12 COMMISSIONER BALCH: Going back to the
13 10-foot question. It really seems like a very short
14 distance from the line.

15 But are you essentially saying that you
16 want to be able to drill wherever you need to within
17 your unit boundaries? It doesn't matter where the
18 TA is compared to the line, the pattern line?

19 THE WITNESS: That's correct.

20 COMMISSIONER BALCH: And is that pretty
21 typical for flooding operations?

22 THE WITNESS: It doesn't occur very often.
23 You know, usually we can seg these wells off and
24 it's not a problem. It's just a few times it does
25 happen, you know. It requires extra -- you know,

1 extra work on the drilling rig, extra work on us to
2 permit it properly.

3 And we don't -- we don't anticipate a lot
4 of them happening, but when it does happen we don't
5 have to, you know, drop everything to comply with
6 that.

7 COMMISSIONER BALCH: You mentioned you
8 were going to do some deeper portions of the
9 reservoir.

10 THE WITNESS: Yes.

11 COMMISSIONER BALCH: I'm sure I asked you
12 last time about whether or not that incorporated
13 some ROZs, residual oil zones.

14 THE WITNESS: It does, yes.

15 COMMISSIONER BALCH: It does?

16 THE WITNESS: Yes.

17 COMMISSIONER BALCH: Is that part of the
18 official Phase I test as well?

19 THE WITNESS: The initial Phase I did not
20 flood the residual oil zone. It only went down to
21 the water contact.

22 COMMISSIONER BALCH: It just gives you the
23 option to do that going forward?

24 THE WITNESS: That's right down to the
25 base of the unit.

1 COMMISSIONER BALCH: You mentioned at some
2 point at the end of the design you will stop
3 purchasing CO2 and just recycle for some period of
4 time.

5 Kind of my understanding is, on an
6 injection cycle you have a loss of CO2 in every
7 pass. You get oil that goes into the residual water
8 and gets stuck in the core space for the MOIOL,
9 things like that.

10 And initially, that can be around
11 20 percent, but I imagine that pass loss is reduced
12 over time.

13 THE WITNESS: It would measure in our CO2
14 retention, and that's correct. That's an amount of
15 CO2 you inject and you have not recovered.

16 Initially, when we start these provisions
17 it's a very high number and it begins to drop off
18 rapidly, as you start to see right through the
19 response. And then you know over time it, you know,
20 goes away or goes to a certain limiting number.

21 COMMISSIONER BALCH: Okay. So when do you
22 stop purchasing CO2? What's your -- how close to
23 the end of the design line for the field is that?

24 THE WITNESS: Yes. Again, that -- the --
25 you know we initially plan these things for a

1 certain slug size of CO2. And that's going to be
2 the amount of pour volume we're going to inject the
3 CO2. And it's typical to start out with a 60 or
4 80 percent slug, depending on the reservoir.

5 You know, some slugs of greater than that
6 can be economic and some slugs less than that cutoff
7 because they're not economic.

8 And so it really just, you know, depends
9 on whether or not the additional CO2 you're
10 injecting is contacting new portions of rock that
11 you haven't contacted in the past.

12 COMMISSIONER BALCH: All right. On your
13 satellites, the picture you have on Exhibit 6, I
14 think I saw 23 or 24 production wells going into
15 that?

16 THE WITNESS: Yes. So you limit the
17 number of wells based on the test separation you
18 have there. We want to get at least one well test
19 per month per well. And so if you have, you know,
20 24 wells, you can, you know, have a little room to
21 spare.

22 Some of these satellites, you know --
23 North Hobbs, we're actually currently adding test
24 separators to some of our satellites because we want
25 more than one well test per month.

1 COMMISSIONER BALCH: So you just have
2 one-day well tests?

3 THE WITNESS: It depends. In North Hobbs
4 now we don't get very many 24-hour tests. Usually
5 we get 12-hour, 8-hour tests. We think we're at --
6 at that point we can get more frequent tests and
7 actually a better depiction of what the well's
8 doing. We extrapolate three 8-hour tests every
9 month as opposed to one 24-hour test.

10 COMMISSIONER BALCH: I was just curious
11 about that.

12 THE WITNESS: Yeah.

13 COMMISSIONER BALCH: Those are all my
14 questions.

15 MADAM CHAIR BAILEY: Mr. Warnell?

16 COMMISSIONER WARNELL: Thank you.

17 Good morning, Mr. Brockman.

18 THE WITNESS: Good morning.

19 COMMISSIONER WARNELL: Along the lines of
20 the CO2 questions, you've mentioned purchased CO2.

21 Where does the purchased CO2 come from?

22 THE WITNESS: We get it off the Trinity
23 Pipeline. It runs from the Denver City hub into
24 Hobbs.

25 COMMISSIONER WARNELL: We looked at a

1 slide -- I don't recall which slide it was, but of
2 the North Hobbs Unit -- and we talked about a few
3 wells on the eastern side of the unit that were old
4 waterflood wells.

5 THE WITNESS: Yes.

6 COMMISSIONER WARNELL: You've mentioned
7 that there were just a few of them.

8 THE WITNESS: Yeah. On that part of the
9 field, you know, it's the -- the reservoir pinches
10 out considerably. And we have a few active
11 producers left, but we are -- we have a -- I don't
12 think we have any active injection wells on that
13 side of the -- I believe it's Section 34, and I
14 can't think of the section to the north of it -- 27,
15 I believe.

16 COMMISSIONER WARNELL: So could you
17 venture to give us a number as to how many wells,
18 active wells, that are there?

19 THE WITNESS: In those two sections,
20 active wells, it's less -- it's less than 10, but I
21 can't give you the exact number off the top of my
22 read.

23 COMMISSIONER WARNELL: Okay. Thank you.
24 I appreciate it.

25 THE WITNESS: Yeah.

1 COMMISSIONER WARNELL: And then on
2 Exhibit 4, page 5, the field flow diagram, we looked
3 at a nice picture or photograph of the injection
4 satellite.

5 But up where we're -- in the top left-hand
6 corner up there by producing well, we go into the
7 first satellite.

8 Can you tell me what that satellite looks
9 like? I mean you've got -- is that just a -- what I
10 would commonly think of as a separator?

11 THE WITNESS: It's actually on the same
12 picture. We actually locate our injection
13 satellite --

14 COMMISSIONER WARNELL: They are both on
15 that same pad?

16 THE WITNESS: -- on that same pad.

17 And if you look towards the -- on that
18 same picture, the -- I guess the part closer to the
19 bottom is the production header. And you can see
20 the test separator and the actual production
21 separator.

22 MR. FELDEWERT: You're looking at
23 Exhibit 6, page 1?

24 THE WITNESS: Yes.

25 COMMISSIONER WARNELL: We didn't really

1 talk any about pressure. Have you ever done any
2 separate tests?

3 THE WITNESS: Yes. Separate tests were
4 done before -- I don't know when exactly they were
5 done. They were done before the hearing, and
6 initially for the Phase I.

7 And it -- I know South Hobbs did separate
8 tests, several of them, in 2008.

9 COMMISSIONER WARNELL: So you don't have
10 any concerns about reaching too high a pressure and
11 cracking the rock or...

12 THE WITNESS: No. We -- we set our limits
13 below the parting pressure. We give ourselves a
14 couple hundred pounds of cushion to ensure that we
15 don't do that.

16 COMMISSIONER WARNELL: And you feel you've
17 got a good handle on the parting pressure?

18 THE WITNESS: Yes.

19 COMMISSIONER WARNELL: Those are all my
20 questions.

21 MADAM CHAIR BAILEY: Operationally, it
22 would be very convenient to have the same orders for
23 the North Hobbs Unit as for South Hobbs Unit,
24 wouldn't it?

25 THE WITNESS: Absolutely.

1 MADAM CHAIR BAILEY: And you've covered
2 many of the orders -- the ordering paragraphs of
3 Order Number R-4934-F, which was for the South
4 Hobbs, and that you show as Exhibit 3 --

5 THE WITNESS: Yes.

6 MADAM CHAIR BAILEY: -- in your notebook.

7 I just want to go through those ordering
8 paragraphs to ensure that what you have said and
9 what our previous order says are meshed together.

10 THE WITNESS: Okay.

11 MADAM CHAIR BAILEY: The first ordering
12 paragraph, the 4934-F says -- it talks about ongoing
13 waterflood operations in the South Hobbs Unit.

14 You've also talked about ongoing
15 waterflood operations in the North Hobbs Unit.

16 So would you agree that the governing
17 provisions for the waterflood remain in operation
18 for that part that is not being expanded?

19 THE WITNESS: Yes.

20 MADAM CHAIR BAILEY: Then ordering
21 paragraph 2 talks about the acreage, which is
22 obviously very different, and would have to be
23 substituted for what your application covers.

24 The ordering -- let's skip down to
25 ordering paragraph 4. It talks about injection

1 authority for three years after the date of this
2 order because of the scope of the operations that
3 you do intend.

4 Would three years be the same that you are
5 recommending as in paragraph Number 4 for the wells
6 that were shown on Exhibit A?

7 THE WITNESS: Otherwise, they would be
8 administrative approval.

9 Is that correct?

10 MADAM CHAIR BAILEY: Well, injection
11 authority usually terminates after two years if
12 there's not been --

13 THE WITNESS: I'm sorry. Yes. After
14 three years, yes.

15 MADAM CHAIR BAILEY: Okay.

16 And then paragraph 5 you did cover about
17 five years for injection wells in tertiary
18 operations.

19 Do you agree with that, the ordering
20 paragraph Number 5?

21 THE WITNESS: Yes, we would like to be
22 consistent between the two.

23 MADAM CHAIR BAILEY: And in ordering
24 paragraph 6, you said that you do not want to have a
25 change of the injection pressure.

1 But in the -- as I recall, injection
2 pressures are discussed in the C-108.

3 THE WITNESS: Yes, they are.

4 MADAM CHAIR BAILEY: So you would adopt
5 those injection pressures as clarified in the
6 application, C-108?

7 THE WITNESS: Yes.

8 MADAM CHAIR BAILEY: And then, of course,
9 there would be the administrative authorization for
10 any requested increase, which is ordering paragraph
11 Number 7 on the South Hobbs Unit.

12 THE WITNESS: Yes.

13 MADAM CHAIR BAILEY: Okay. We also
14 discussed -- or did we discuss how injection would
15 enter only the Grayburg-San Andres and not permitted
16 to escape to other formations?

17 THE WITNESS: Randy can talk about the
18 geological...

19 MADAM CHAIR BAILEY: Okay. That's not
20 your area, then?

21 THE WITNESS: Correct.

22 MADAM CHAIR BAILEY: Okay.

23 And Number 9, that's not your area, then.

24 But ordering paragraph Number 10, you
25 referenced the finding paragraph in this order

1 concerning placement of the packer, but you didn't
2 reference the ordering paragraph.

3 Of course we look to the ordering
4 paragraph, which says that so long as the packer, as
5 set, remains below the top of the Grayburg
6 formation.

7 And you would agree with that?

8 THE WITNESS: Yes, I would.

9 MADAM CHAIR BAILEY: Okay. And then
10 injection through tubing and packer, that's somebody
11 else that will talk about that?

12 THE WITNESS: Yes.

13 MADAM CHAIR BAILEY: Okay.

14 I guess we would then skip down to
15 paragraph 14 for pressure testing before commencing
16 injection operations throughout the interval from
17 the surface down to the proposed packer center.

18 Is that your area?

19 THE WITNESS: Yes. We will do that.

20 MADAM CHAIR BAILEY: And you would agree
21 to that.

22 And then the MIT conducted on injection
23 wells every two years.

24 Did you talk about that?

25 THE WITNESS: I believe we will have

1 another witness talk about that.

2 MADAM CHAIR BAILEY: Another witness for
3 that one? Okay.

4 But you did talk about MITs for TA wells
5 that were equipped with pressure monitoring?

6 THE WITNESS: I believe we'll have another
7 witness talk about that one also.

8 MADAM CHAIR BAILEY: Okay.

9 Skipping on down to paragraph 21, where
10 you're asking for no limit on the gas/oil ratio.
11 But you -- did you talk about the oil allowable, for
12 no limit on oil allowable for the enhanced recovery?

13 THE WITNESS: We did not mention that.

14 MADAM CHAIR BAILEY: Is that somebody
15 else?

16 THE WITNESS: But we would like that.

17 MADAM CHAIR BAILEY: You would like those?

18 THE WITNESS: Yes.

19 MADAM CHAIR BAILEY: The H2S contingency
20 plan, I'm assuming somebody else?

21 THE WITNESS: Yes, ma'am.

22 MADAM CHAIR BAILEY: And then
23 paragraph 23, request to certify an enhanced
24 recovery project. That was yours, right?

25 THE WITNESS: No. Someone else will tell

1 the details of that.

2 MADAM CHAIR BAILEY: That's somebody else?

3 THE WITNESS: Someone else.

4 MADAM CHAIR BAILEY: Okay.

5 Those are all my questions.

6 Do you just want to make sure that
7 operationally you have consistent requirements --

8 THE WITNESS: That's correct.

9 MADAM CHAIR BAILEY: -- across the two
10 tertiary units?

11 THE WITNESS: Yes.

12 MADAM CHAIR BAILEY: That's all I have,
13 then.

14 Do you have any follow-up questions?

15 MR. FELDEWERT: No. The only thing I
16 would point out, Madam Chair, and it's -- I guess it
17 gets to more of a legal nature on the qualification
18 for the -- or certification of the Enhanced Oil
19 Recovery Act.

20 Mr. Brockman's role was to demonstrate
21 that it wasn't prematurely filed and will not result
22 in recovery of additional wells. So he did touch
23 that aspect of it.

24 But as you know, there's a couple of other
25 touchstones that we have to hit, and we will with

1 another witness.

2 MADAM CHAIR BAILEY: Okay. Thank you.

3 You maybe excused, sir.

4 MR. FELDEWERT: We will call our -- with
5 your permission we will call our next witness.

6 MADAM CHAIR BAILEY: Please be sworn in.

7 RANDY STILWELL,

8 after having been first duly sworn under oath,

9 was questioned and testified as follows:

10 EXAMINATION

11 BY MR. FELDEWERT:

12 Q. Would you please state your name, identify
13 by whom you are employed, and in what capacity?

14 A. My name is Randy Stilwell. I'm a senior
15 geologic advisor for Oxy.

16 Q. And how long have you been a senior
17 geologic advisor for Oxy?

18 A. For over 20 -- I'm sorry. Since the year
19 2000.

20 Q. And how much experience do you have with
21 the Permian Basin?

22 A. Over 20 years' cumulative time working the
23 Permian Basin.

24 Q. Did you, Mr. Stilwell, testify before the
25 commission for the application that resulted in the

1 order approving the tertiary recovery project in the
2 South Hobbs Unit?

3 A. Yes, I did.

4 Q. And at that time were your credentials as
5 an expert witness in petroleum geology accepted and
6 made a matter of public record?

7 A. Yes, they were.

8 Q. You have conducted a geologic study of the
9 area that is the subject of this application?

10 A. Yes, I did.

11 Q. And did you, Mr. Stilwell, prepare some
12 slides to assist in your presentation?

13 A. Yes, I did.

14 Q. If I turn to what's been marked as Oxy
15 Exhibit Number 5, it contains nine slides.

16 Is that correct, Mr. Stilwell?

17 A. Yes, that's correct.

18 Q. And are these the slides that you
19 prepared?

20 A. They are.

21 Q. And do Slides 1 and 2 accurately reflect
22 your educational background, your work experience,
23 your affiliations, and certifications?

24 A. Yes, they do.

25 Q. Okay.

1 MR. FELDEWERT: Madam Chair, I would
2 re-tender Mr. Stilwell as an expert witness in
3 petroleum geology.

4 MADAM CHAIR BAILEY: He is accepted.

5 Q. (By Mr. Feldewert) If we then,
6 Mr. Stilwell, turn to the structure of the area and
7 the injection zone, does Slide Number 3 provide us a
8 good starting point?

9 A. Yes, it would.

10 Q. Okay. Would you identify this exhibit and
11 explain what it shows?

12 A. This is a general pipe log from a well in
13 the North Hobbs area.

14 What you see on this log is -- and down
15 the middle a depth track with a gamma ray to the
16 left and a porosity log to the right.

17 This shows all of the formations from the
18 surface down through the authorized injection
19 interval, which is into the San Andres interval.

20 On the left are all the formations that
21 are penetrated down to that point.

22 And the -- one of the things I wanted to
23 point out is that the San Andres, which will be the
24 focal point for the map that we'll see on the
25 next -- on the next slide -- generally comes in at

1 about 4,000 feet depth.

2 Q. And what is the injection zone for the
3 North Hobbs Unit project?

4 A. The authorized injection interval is the
5 entire Grayburg-San Andres interval down to a depth
6 of 4,500 feet.

7 Q. And I may have missed it. But what is the
8 significance of the yellow shading on this
9 particular pipe log?

10 A. The -- on this particular log display the
11 yellow actually is a very thick salt section which
12 will come out a little bit later, when I discuss the
13 communication upwards with the freshwater zones or
14 lack of communication.

15 But it -- it just shows up as a very
16 obvious barrier between the injection interval and
17 the freshwater zones up at the top.

18 Q. Now, did you prepare a structure map of
19 this field?

20 A. Yes, I did.

21 Q. Is it hung on the top of the San Andres?

22 A. Yes. The structure map is on the
23 San Andres interval. And this...

24 Q. So we would move to Slide Number 5 of --

25 A. 4.

1 Q. I'm sorry. Slide 4 of Exhibit 5.

2 A. Slide 4 is a two-dimensional structure map
3 that was made from approximately 800 data points
4 that penetrated the San Andres interval.

5 And what you see here is a two-dimensional
6 representation of the subsurface structure.

7 These lines are what -- first of all, in
8 purple is the North Hobbs Unit outline.

9 In blue is the South Hobbs Unit outline.

10 These are square sections, one-mile-square
11 sections here.

12 The black lines are contours representing
13 increasing elevations of 50 feet contour interval.
14 So as you go from one contour up to the next you go
15 50 feet higher in elevation to the very crest of the
16 structure, which actually is in the Phase II -- I'm
17 sorry -- the expansion area, Phase I expansion area
18 of North Hobbs.

19 And if -- I've got a couple of profiles
20 that show what the structure looks like in
21 cross-section.

22 Q. Did you -- what is the green? Maybe I am
23 missing that -- the green dashed line?

24 A. The green dashed line is the historical
25 producing oil/water contact in the field.

1 Q. Is this one continuous structure?

2 A. Yes, it is. Yes. It's one continuous --
3 we call this kind of a structure an anticline. This
4 is one of the more simple hydrocarbon traps that you
5 will find in the Permian Basin.

6 And it's one continuous structure about
7 eight miles long containing both the North Hobbs and
8 the South Hobbs Unit.

9 Q. Okay. Then I think the next animation on
10 this is you -- it brings in a blue line.

11 What does that indicate?

12 A. So this is a line of section going along
13 what we call the strike of the field, the length of
14 it.

15 So we're going to look at a profile, so
16 you can see what this -- what this anticline looks
17 like in cross-section.

18 Q. So I'll bring in the profile, right?

19 A. Yes.

20 Q. Okay.

21 A. So this goes from northwest -- the very
22 northwest end of North Hobbs to the very south end
23 of South Hobbs. And you can see the anticlinal
24 structure as it continues to rise to the crest and
25 then drops off on the flanks.

1 Q. And that's the blue line in the bottom
2 left-hand corner of Slide 4?

3 A. That's correct.

4 Q. Okay. And then do you have a
5 cross-section that goes the other direction?

6 A. Yes. There is another line of section, we
7 call it a dip section, that goes across the
8 narrowest part of the field. That's the red line on
9 here.

10 And if you'll pull up the profile across
11 there, you'll see that it's a more narrow -- it goes
12 across the more narrow portion of the structure.
13 But you see the dips on the side, and going up to
14 the crest of the field on top.

15 There's --

16 Q. And how -- I'm sorry.

17 A. There's about 300 feet of what we call
18 closure on this structure, from the -- from the base
19 of the structure to the top.

20 Q. Do you recall how many data points went
21 into your profile line?

22 A. A little over 800.

23 Q. Okay. Do you observe any faults
24 penetrating in this anticline?

25 A. No. There were no -- no mapped faults

1 that penetrate the San Andres-Grayburg interval in
2 the Hobbs area.

3 And so that -- that's what makes this
4 structure a complete hydrocarbon trap, in that you
5 have an anticlinal structure that's not faulted.

6 And as I'll show on the next slide, the
7 last component of the trap you need is the top seal.

8 Q. Before we get to that, there were some
9 tes- -- you talked about the lack of faults.

10 There was also some testimony from
11 Mr. Brockman that they intend to utilize a 5-well
12 spot pattern.

13 A. Yes.

14 Q. Do you agree that that will assist in
15 preventing the horizontal migration of fluids?

16 A. Yes, I do.

17 Q. Okay. If we then go to your next slide.

18 Would you please identify and explain what
19 it shows?

20 A. This is a -- this is the same pipe log
21 that I showed before, just a detailed version of it
22 focusing in on the authorized injection interval,
23 basically from the top of the Grayburg down to
24 4,500 feet.

25 And again what you see on here is the top

1 of the Grayburg, the top of the San Andres, and the
2 producing oil/water contact historical that we saw
3 on the previous map that includes the lower part of
4 the Grayburg and the San Andres down to this point.

5 Q. That's the historical production zone?

6 A. Yes.

7 Q. Okay.

8 A. Yes, it is.

9 And if you'll notice above that point,
10 above what we call this basal Grayburg, is a very
11 tight section in the remainder of the Grayburg.
12 This is several hundred feet of anhydrite and tight
13 limestones. This forms the ultimate seal for the
14 hydrocarbon trap as well as for any other fluids
15 that would be entering into the system, to prevent
16 them from going up higher.

17 Q. In your opinion, is that a direct dramatic
18 change in porosity that you see here?

19 A. Yes, absolutely.

20 Q. There was a -- there was a discussion
21 about these -- these -- this pipe log and other pipe
22 logs in connection with the closed packer setting
23 depth.

24 Do you recall that?

25 A. Yes, I do.

1 Q. Do you agree that the relief that is
2 sought by the company, with respect to the packer
3 setting depth, will that cause any threat to
4 groundwater?

5 A. No, not at all. Because we would be
6 setting the packer up in this -- basically this zone
7 of no porosity that's mostly composed of anhydrites
8 and tight limestone. So that's actually an ideal
9 setting to put the packer.

10 Q. Okay. The -- now, did you do some
11 additional cross-section work with respect to the
12 structure?

13 A. Yes, I did.

14 If I could just point out a couple of
15 other things.

16 On this pipe log you'll notice there are
17 several other lines on here. These are zonations
18 that we pick, correlations for various zones within
19 the San Andres, that we can correlate across the
20 field.

21 And if we go to the next slide, we can see
22 how those carry across the field.

23 Q. Okay. Now, is there some animation
24 associated with this particular slide?

25 A. Yes, there is.

1 Q. And ultimately, I guess, it results in
2 Slides 6 and 7 --

3 A. Correct.

4 Q. -- for Exhibit 5?

5 A. That's exactly right.

6 So this slide starts out showing the
7 field, both units. And what we're going to be
8 looking at here is the actual cross-section composed
9 of approximately 24 wells in both the North Hobbs
10 and the South Hobbs Unit.

11 And so it -- it snakes a little bit more
12 erratically as I try to connect some of these deeper
13 wells through both of the units.

14 Q. And that's the green line that's shown in
15 the middle of this exhibit?

16 A. That's correct. It goes from northwest to
17 southeast.

18 Q. And the next animation, I think, takes
19 that away, correct?

20 A. Correct.

21 Q. Down into the left-hand corner?

22 A. That's right.

23 Q. Okay. And what do we show now?

24 A. So what we're left with here is this
25 cross-section that is a structural cross-section.

1 This is the way that it would actually be in the
2 subsurface.

3 And what you see here is -- the top of the
4 Grayburg interval is this purple line. And so
5 between there and the yellow line, the lower
6 Grayburg, is this impermeable anhydrite and
7 limestone interval. And you can see that it's very
8 continuous across the field.

9 You get down past the Grayburg into the
10 San Andres interval, there is a thin tight zone at
11 the top of the San Andres.

12 And then you get into this green area
13 here, which is all the San Andres interval that's
14 within the historical producing oil/water column or
15 contact.

16 Q. How thick is that impermeable line,
17 approximately?

18 A. It's approximately 200 feet thick.

19 Q. Does that include the --

20 A. Oh, I'm sorry. Let me correct myself.

21 Are you talking about the dolomite or --

22 Q. Yes, the dolomite.

23 A. The dolomite is anywhere from 10 to
24 50 feet thick.

25 Q. Okay. And then I think you were

1 representing what was around 200 feet there?

2 A. Yes. That's the upper Grayburg anhydrites
3 and tight limestones.

4 Q. Okay. And again, these barriers exist,
5 why? Because you show the North Hobbs Unit over to
6 the left and then you show the South Hobbs Unit over
7 to the right of this exhibit.

8 A. Yes, that's correct. I've denoted here on
9 the top of the cross-section the actual area that
10 includes the North Hobbs Phase I flood, the
11 previously-approved South Hobbs Phase II flood --
12 I'm sorry -- the South Hobbs flood.

13 And then the area in between would be a
14 portion of the Phase I flood expansion area.

15 Q. And some of the Phase I expansion area
16 would go to the left, correct?

17 A. That's correct.

18 Q. The left of this particular exhibit?

19 A. Yes.

20 Q. Okay. Anything else about this?

21 A. No.

22 Q. Okay. Then I think you did an analysis of
23 the freshwater zones, correct?

24 A. I did.

25 Q. If I go to what's been marked as Slide 8

1 of Exhibit 5, would you orient us to this exhibit,
2 please?

3 A. Yes. This is a summary of all the
4 freshwater analysis data that I accumulated from the
5 office of the state engineer.

6 So what you see here is a map of the
7 sections that encompass North Hobbs. And within
8 each of the sections is a box that summarizes the
9 data that is examined for this area.

10 So what I did was, there were over 1,250
11 water well data records in the vicinity of North
12 Hobbs that I examined. And the majority of these
13 were very shallow wells that reached their total
14 depth in, typically, what would have been in the
15 first water sand that they encountered. So a lot of
16 those were discounted, as far as trying to define
17 the base of the freshwater zone.

18 So by continuing this kind of analysis,
19 I'm looking at seeing which wells actually
20 penetrated all of the water sands and got down to
21 what we call the Triassic red beds, which are a very
22 distinctive red shale, red clay interval that pretty
23 much defines the base of all those freshwater zones.

24 And so there were 179 of these deeper
25 wells that are highlighted in all of these little

1 squares on the sections that I believe penetrated
2 the entire freshwater zone.

3 And in summary, in the North Hobbs area,
4 this ranges from the depth of 190 to 245 feet from
5 the surface.

6 Q. And that result -- that conclusion results
7 from an analysis of 179 wells that met your criteria
8 of going all the way into the -- through the entire
9 freshwater zones?

10 A. That's correct.

11 Q. Okay. Then if we will turn to Slide
12 Number 9, is this, again, a pipe log from the North
13 Hobbs Unit that adds the location of the freshwater
14 zone?

15 A. Yes. This is the same pipe log that I
16 showed in the first slide. And again, it's a gamma
17 ray porosity log and then the formation is on the
18 side.

19 And what I've -- what I've noted here on
20 the right side of the log are annotations regarding
21 each one of those major zones.

22 Starting from the surface you've got your
23 freshwater zones in the top, basically, 200-foot
24 interval.

25 Below that are the Triassic red beds,

1 which are predominately impermeable shales.

2 You have your Rustler anhydrite, which is
3 an impermeable anhydrite.

4 And below that is this very thick solatto
5 salt section that we discussed previously, which are
6 impermeable salts and shales.

7 And then finally, the discussion that we
8 had previously on the detailed log, the 200-foot
9 thick anhydrite and tight limestone section, sitting
10 at the very top of the Grayburg section.

11 Q. Is that the primary seal for this
12 injection zone?

13 A. It is. It's the primary seal for the
14 hydrocarbon accumulation and for the injection.

15 If that -- if that seal weren't competent
16 there would not be an accumulation here at Hobbs.

17 Q. Okay.

18 A. So my conclusion from all of this would be
19 that there -- because of all of the -- there's about
20 3,500 feet, approximately, of formation rock between
21 the injected interval and the surface. The great
22 majority of that is comprised of impermeable
23 formations.

24 And so there should be no natural
25 occurrence of any vertical communication going on

1 between the injected interval and the freshwater
2 zones at Hobbs.

3 Q. Okay. Were the slides comprising
4 Exhibit 5 compiled by you or under your direction
5 and supervision?

6 A. Yes, they were.

7 MR. FELDEWERT: At this point, Madam
8 Chair, I would move the admission into evidence of
9 Oxy Exhibit Number 5.

10 MADAM CHAIR BAILEY: It's accepted.

11 MR. FELDEWERT: And that concludes my
12 examination of this witness.

13 MADAM CHAIR BAILEY: Commissioner Warnell,
14 do you have any questions?

15 COMMISSIONER WARNELL: I think I have one
16 question for Mr. Stilwell.

17 When you look at the -- let me figure out
18 which slide you were on. I guess the cross-section,
19 page 6, the upper Grayburg.

20 THE WITNESS: Yes.

21 COMMISSIONER WARNELL: If you're going to
22 allow the packer to be set anywhere below the top of
23 the Grayburg, I believe --

24 THE WITNESS: Yes.

25 COMMISSIONER WARNELL: -- how does -- I

1 mean, the top of that Grayburg varies from the
2 northwest down to about the middle of it, the North
3 Hobbs Unit and the South Hobbs Unit.

4 There's quite a variance there, like 4- or
5 500 feet?

6 THE WITNESS: As far as thickness goes?

7 COMMISSIONER WARNELL: Yes.

8 THE WITNESS: Yes.

9 COMMISSIONER WARNELL: As far as the top
10 goes.

11 THE WITNESS: Well, we would -- we would
12 use the adjacent log -- I mean, we would look at the
13 log information.

14 COMMISSIONER WARNELL: You would take an
15 offset log --

16 THE WITNESS: Absolutely.

17 COMMISSIONER WARNELL: -- closest to the
18 well that you were getting ready to set your packer
19 on?

20 THE WITNESS: Yes. And that's typically
21 what we do whenever there -- any time the production
22 engineers are having to reset the packers, typically
23 they'll come to me and we'll pull up a cross-section
24 of the adjacent wells, and we'll look and see, you
25 know, what the formations look like around there.

1 COMMISSIONER WARNELL: Thank you.

2 I have no further questions.

3 MADAM CHAIR BAILEY: Mr. Balch?

4 COMMISSIONER BALCH: Just one. Maybe just
5 a clarification, Mr. Stilwell.

6 THE WITNESS: Yes.

7 COMMISSIONER BALCH: And good morning.

8 THE WITNESS: Good morning.

9 COMMISSIONER BALCH: So you have four
10 seals in your primary seal that prevent migration of
11 any injected fluid from the reservoir up to the
12 freshwater interval?

13 THE WITNESS: Yes.

14 COMMISSIONER BALCH: And there's no
15 faulting in the anticlinal feature which defines the
16 field boundaries?

17 THE WITNESS: Correct.

18 COMMISSIONER BALCH: So really, the only
19 possible avenue -- and I know you can't address
20 this -- would be through penetrations of wellbores.

21 THE WITNESS: Yes. That's exactly right.

22 COMMISSIONER BALCH: And I presume that
23 will be addressed by a later witness?

24 THE WITNESS: It will.

25 COMMISSIONER BALCH: That is all I have.

1 MADAM CHAIR BAILEY: Exhibit 5, page 8,
2 has the basin freshwater zone?

3 THE WITNESS: Yes, ma'am.

4 MADAM CHAIR BAILEY: In particular, I'm
5 looking at 18 South, 38 East, Section 33.

6 THE WITNESS: Yes, ma'am.

7 MADAM CHAIR BAILEY: Where it shows the
8 base of the freshwater 193 to 227 feet?

9 THE WITNESS: Correct.

10 MADAM CHAIR BAILEY: One of the wells that
11 was listed in the C-108 is 84 years old and doesn't
12 cover the entire water zone.

13 THE WITNESS: And that will be addressed
14 in detail.

15 MADAM CHAIR BAILEY: Okay. That's a later
16 witness?

17 THE WITNESS: Yes, it is.

18 MADAM CHAIR BAILEY: Okay.

19 Then I will go through the same exercise
20 with you that I went through with the previous
21 witness, Mr. Brockman, concerning the order for the
22 South Hobbs Unit to ensure that the order is
23 consistent --

24 THE WITNESS: Sure.

25 MADAM CHAIR BAILEY: -- between the two

1 units.

2 And I'm looking for those requests, or
3 that testimony that you gave concerning these
4 ordering paragraphs.

5 Okay. We were down to paragraph 8.

6 You did not talk about escape to other
7 formations, or did you, to the surface from
8 injection?

9 THE WITNESS: Yes. I believe the last
10 slide, Slide 9, addressed that issue.

11 MADAM CHAIR BAILEY: Okay. So ordering
12 paragraph 8, where it says the operator shall take
13 all necessary steps to ensure that the injected
14 gases and fluids enter only the Grayburg and/or
15 San Andres and are not permitted, you agree to that
16 one?

17 THE WITNESS: Yes, I do.

18 MADAM CHAIR BAILEY: Okay. I don't, right
19 offhand, see any of the other ordering paragraphs.

20 MR. FELDEWERT: That's paragraph 10,
21 dealing with the packer setting.

22 MADAM CHAIR BAILEY: Yes.

23 The injection will be accomplished through
24 fiberglass tubing and nickel-plated packers.

25 You did talk about the packers. So is

1 that going to be a nickel-plated packer?

2 THE WITNESS: That is probably not best
3 addressed by myself. I think the packer setting was
4 in reference to the formation.

5 MADAM CHAIR BAILEY: Top of the Grayburg?

6 THE WITNESS: Yes.

7 MADAM CHAIR BAILEY: All right. Okay.

8 THE WITNESS: And that it would be a
9 competent formation to set the packer in, that whole
10 interval.

11 MADAM CHAIR BAILEY: Okay.

12 Those are all my questions.

13 Do you have any followup?

14 MR. FELDEWERT: I do not.

15 MADAM CHAIR BAILEY: Then you may be
16 excused.

17 THE WITNESS: Thank you.

18 MADAM CHAIR BAILEY: Would you call your
19 next witness?

20 MR. FELDEWERT: Yes, Madam Chair.

21 We'll call our third witness.

22

23

24

25

1 SCOTT HODGES,
2 after having been first duly sworn under oath,
3 was questioned and testified as follows:

4 EXAMINATION

5 BY MR. FELDEWERT:

6 Q. would you please state your full name and
7 then identify by whom you are employed and in what
8 capacity?

9 A. My name is Scott Hodges. I'm employed by
10 Oxy, and I'm operations team lead in the North Hobbs
11 and the South Hobbs Units.

12 Q. How long have you been responsible for the
13 operations at the North Hobbs Unit and the South
14 Hobbs Unit?

15 A. I've been there right at three years.

16 Q. And exactly what are your responsibilities
17 as the operations team lead?

18 A. As operations team lead, I oversee the
19 operations on a daily basis to make sure -- for the
20 monitoring and the safety and the wellness of people
21 around us that -- our employees.

22 I'm also involved in these projects on a
23 design basis, the installation and initiation of the
24 project, as well as operations after those phases
25 are through.

1 Q. And then are you also involved in the
2 monitoring of that?

3 A. Yes, I am.

4 Q. Did you, Mr. Hodges, testify before this
5 commission last year in connection with Oxy's
6 application to convert the South Hobbs Unit from a
7 waterflood to a gas injection project?

8 A. Yes, I did.

9 Q. And at that time, did you discuss with the
10 commission in detail the SCADA system that's used by
11 Oxy to monitor the operations out there?

12 A. Yes, that is correct.

13 Q. And the SCADA stands for what?

14 A. Supervisory control and data acquisition,
15 an acronym.

16 Q. What will you be addressing with the
17 commission here today?

18 A. I'll be talking about the operations, the
19 monitoring that we do, the safety aspects that we
20 have in place.

21 I'll also be talking about the frequency
22 of the MIT testing for the TA wells, and also our
23 corrosion mitigation program.

24 Q. Okay. And in preparation for your
25 testimony here today, did you prepare the slides or

1 assist in preparing the slides that have been
2 included in Oxy Exhibit Number 6?

3 A. Yes, I did.

4 Q. And that contains approximately 14 slides?
5 Or it contains 14 slides, correct?

6 A. That is correct.

7 Q. If I turn to Slide 1 -- there's already
8 been some discussion about this.

9 This depicts a current -- what you call
10 satellite facility at the North Hobbs Unit.

11 Is that correct?

12 A. That is correct.

13 Q. Why don't you give the commission -- first
14 of all, do you know how many of these currently
15 exist in the North Hobbs Unit?

16 A. Yes. We currently have seven satellites
17 constructed in this same manner.

18 Q. So they are all constructed in the same
19 fashion?

20 A. That's right.

21 Q. And they are all fenced?

22 A. Yes, they are.

23 Q. Okay. And why don't you give the
24 commission an idea of what types of equipment are on
25 each of these existing satellites.

1 A. Okay. On these satellites, as it was
2 mentioned, they are all fenced with a chain link
3 fence. They have razor wire above them for
4 security.

5 As you'll see on this -- in this picture,
6 the injection header, this is a combination of lines
7 that go to each well in our injection system, but
8 the header is all located in this one spot right
9 here on one side of the satellite.

10 On the bottom part of it is where you have
11 all the producing wells that come into one location.

12 This vessel right here is a production
13 vessel. And the smaller vessel to the left of it is
14 our test vessel.

15 This -- this building right here contains
16 all of the automation for the injection system. It
17 has an Allen-Bradley programmable logic controller,
18 or PLC, as we call them.

19 It also has LOIs, which are lease operated
20 interface, where our employees can go into this
21 building and they've got full access on a touch
22 panel of that PLC.

23 On this side of it, for the production
24 side of it, we have a number of monitoring devices
25 and safety devices along with the injection.

1 And for the production side, this panel
2 right here contains that -- the PLC for the
3 production side.

4 Q. Now we have some additional pictures, for
5 example, of the injection headers, correct?

6 A. Yes, we do.

7 Q. Okay. Before we get to that, I want to
8 touch a little bit on the SCADA system, which is --
9 as I understand it -- isn't part of what you have in
10 the shed.

11 A. That's correct.

12 Q. Is that right?

13 A. Yes.

14 Q. Okay. And why don't we turn to what's
15 been marked as Slide Number 2.

16 And would you just -- and I know you
17 talked about this last year. But why don't you just
18 remind the commission again about what the SCADA
19 system actually does within the company and for the
20 unit, I should say.

21 A. The SCADA system uses information
22 technology to provide realtime monitoring and
23 control of remote facilities.

24 On the graph, you can see on the left --
25 we have input from sensing devices on our equipment.

1 And these consist of the temperature and water
2 content pressure monitors, H2S monitors, and also
3 gas analysis.

4 These -- these devices speak to a radio
5 system. Sometimes they are gathered through radio
6 telemetry. Some are gathered through a fiberoptic
7 cable.

8 They speak to the SCADA system, which will
9 go back to the control devices which include
10 shutdown valves, chokes, pumps, compressors. All of
11 our equipment has some type of automated control.

12 And then we also get a human notification.
13 We get alarms to let us know that something is -- is
14 outside the parameters we've set on it. We get
15 callouts on those.

16 We also have graphic screens in each one
17 of our production techs' pickups through a laptop
18 computer. They can pull this all up. They can
19 operate everything from their pickup, from their
20 house, from the office, or from the location through
21 these graphic screens.

22 We also gather historic data. So if -- we
23 can look and we can trim things based on the
24 history, to see if we've got stuff that's moving
25 outside the parameters or aging equipment or

1 whatever we need to look at. But we can see that on
2 our historical data.

3 Q. And does the -- does this system also
4 trigger automatic shutdowns if the parameters are
5 exceeded?

6 A. Yes, it does.

7 Q. And SCADA is basically what ties
8 everything together?

9 A. That's right.

10 Q. All right. Then let's talk a little bit
11 about your sensing devices that are on your
12 equipment and tied together with the SCADA system.

13 If I turn first to what's been marked as
14 Slide Number 3, this is at -- this is a depiction of
15 your injection facilities at one of these
16 satellites?

17 A. Yes, it is.

18 Q. Okay. Why don't you explain to us what is
19 depicted here.

20 A. Well, in this picture right here you have
21 got this -- this -- every one of these are designed
22 the same, so I'll just stick with this one closest
23 to us.

24 You've got a stainless steel line that
25 takes the injection fluids and sends it to the well

1 through this system right here.

2 Right here on this, you have a meter with
3 a multivariable transmitter on it. And this
4 calculates several different things based on
5 pressure differential, temperatures, and actually
6 sends a signal back to a -- to the PLC which, in
7 turn, sends a signal back to this choke right here
8 to adjust it for -- to make sure we stay within the
9 parameters of that injectant that we want going
10 downhole.

11 The system is set up for a failsafe
12 design. So if we lose power, we lose communication,
13 whatever we lose, this choke right here will
14 automatically go shut to eliminate any more fluids
15 or gas to go into the injection line.

16 The things that we get alarmed on, as
17 operators, is either a low or a high manifold
18 pressure at this facility, a low or high tubing
19 pressure at the well because the -- as we'll see in
20 the next slide, I believe, we have a well site that
21 has fiberoptic coming back to the same PLC to let
22 you know what's going on at the well, so we get
23 realtime information, data from the well, in the
24 transmitters at the well.

25 A power loss or communication failure, and

1 then also a transmitter fault.

2 Q. Okay. Now, this is a -- is this setup the
3 same for all of your satellites?

4 A. Yes, it is.

5 Q. And will it also -- will you also have
6 these same control measures at all of the new
7 facilities?

8 A. Yes, we will.

9 Q. Okay. When you mentioned the wells, the
10 injection well sites, let's go to Slide Number 4.

11 And is this a depiction of a typical
12 injection well site at the North Hobbs Unit?

13 A. Yes, it is. If we follow this yellow flow
14 line here, this is the actual gas or -- or liquid
15 coming from the -- this injection satellite.

16 It comes aboveground here because we have
17 a pressure and a temperature transmitter on the
18 line. It gives us an idea of what this tubing
19 pressure is and what the temperature of that
20 injectant is.

21 It is communicated to a PLC located on
22 this location, and then fiberoptic back to the
23 satellite.

24 So we, as close to realtime as you can
25 possibly get, the fiberoptic tells us what's going

1 on at the well site so we can make the adjustments
2 at the injection header.

3 This gas continues back underground across
4 the location, and then it comes up and goes into the
5 tubing here on the well site.

6 This -- this transmitter on -- the casing
7 pressure transmitter is tied also into the SCADA
8 system and lets us know, if we did have a tubing
9 failure or a packer failure on this well, the
10 pressure would go up on your -- on your annulus and
11 it would send a signal to immediately shut any
12 injectant off going to that well.

13 Q. Do you also have devices to prevent
14 backfill?

15 A. Yes. If we happen to -- had a leak, a
16 breach of this line, we do have a very robust
17 designed check valve here at the top of the well
18 that would prevent any fluids from coming back --
19 flow back from the well.

20 Q. And, Mr. Hodges, will the company have a
21 similar setup for all of the new injection wells at
22 the expand- -- in the expanded Phase I area of the
23 North Hobbs Unit?

24 A. Yes, sir. In a sense of consistency,
25 everything will be designed the same for the new

1 equipment as we currently have in place.

2 Q. Okay. Then let's turn to the next
3 facility, which will be the production well setups.

4 And that's Slide 5 of Exhibit 6?

5 A. That's correct. This is one of our
6 typical ESP wells, and that's an electronic
7 submergible pump.

8 And this well runs -- the pump actually
9 runs in the bottom of the well via an electric cable
10 that is banded to the tubing all the way down. And
11 I'm sure you-all are familiar with that.

12 But all of our -- 95 percent of our wells
13 right now in Hobbs are pumped with an ESP.

14 So we've got a well here that is pretty
15 much contained and doesn't have a polish rod,
16 doesn't have -- you know, the pumping unit on it.

17 As you can see, we have a casing pressure
18 transmitter that reads our casing pressure on a
19 continual basis, and we also have a tubing pressure
20 transmitter. These two come together to go into the
21 flow line.

22 On each one of these, these transmitters
23 communicate via radio and these towers right here
24 back into our SCADA system. We capture those in
25 our -- on our laptop, so it's visual screens that we

1 have. We have a program called Graph Works. I
2 think we've got a picture of that later.

3 But actually, we have several different
4 functions. We can capture that data in Graph Works,
5 we can trim it.

6 But we also have alarm points set on these
7 that will notify us, as operators, if we have either
8 a high or a low pressure in either place.

9 And then it's -- it's not just
10 notification to us, but this ESP panel in the
11 background here is the electrical source for your
12 ESP pump. And if we do have one of these
13 transmitters that gets outside the logic that we
14 have programmed into them, it will shut off the
15 electricity to that pump and shut that pump down.

16 Q. Now, these pressure monitoring devices
17 that we see both at your -- on this equipment --
18 your injection headers, your injection wells, your
19 production wells -- does that also assist the
20 company in monitoring or guarding against any H2S
21 releases?

22 A. It alerts us when we have a potential
23 problem. And it will let us -- we can -- we can
24 trend it and see what's happening there. And -- but
25 yes, it will notify us.

1 Q. Okay. And then in addition to these
2 realtime monitors, does the company also have H2S
3 detection devices at strategic locations?

4 A. Yes, we do.

5 Q. And if I could turn to what has been
6 marked as Slide Number 6, does this depict one of
7 those detection devices?

8 A. Yes, it does.

9 This is a remote H2S monitor. And at each
10 one of our facilities, our satellites and our
11 batteries, we -- we have them strategically placed
12 around to pick up any fugitive emissions of H2S.

13 Q. Okay. Let me stop you right there,
14 because you mentioned at all of them.

15 Because when I look at the first bullet
16 point, it says at the RCF and then at selected CO2
17 flood satellites and batteries.

18 Was that the wrong word selected?

19 A. Yes, it is. We have placed these CO2 --
20 or H2S monitors at all of our facilities.

21 Q. Okay.

22 A. And we will continue that in our new
23 design. All of them will have the H2S detection.

24 Q. And this -- when these -- if this alerts,
25 you have shutdown procedures?

1 A. Yes, we do. The monitor, when it reaches
2 10 parts per million, it initiates an emergency
3 shutdown of that facility.

4 It will -- this, for the people that
5 are -- might possibly be on location, this has a
6 blue beacon that goes off to alert you that there is
7 an H2S condition.

8 And we also get a callout to all of our
9 Oxy personnel to respond to this site for a
10 potential H2S, for leaks.

11 Q. And all of these monitoring devices that
12 you've mentioned, it's all tied together with SCADA,
13 right?

14 A. That's correct.

15 Q. Okay. Then let's turn to Slide 7 and
16 discuss how you access that and utilize that data.

17 A. Okay. Well, some of the communication in
18 our SCADA system is fiberoptic, but it's also via
19 radio.

20 And this communication comes through these
21 systems, goes to Graph Works as a host system there
22 at our office.

23 When we get that alarm we also have a
24 server. It's is an alarm server. It sends an alarm
25 to our answering service, which notifies us that we

1 have an alarm.

2 But at the -- at the facilities, all of
3 our alarms -- I mean all of our communication is via
4 hardwire. We don't -- we don't have any of our H2S
5 stuff that's wireless. We do everything by
6 hardwire. It's -- that way we don't have any
7 interruption of a radio system. It's all tied in
8 solid, so we will get that shut down.

9 Q. And then this indicates that you reference
10 all of this information through Graph Works?

11 A. Yes.

12 Q. So what is that, a -- well, if you will go
13 to Slide Number 8, is that a depiction of the Graph
14 Works screen?

15 A. Yes, it is. This is just a graphical
16 presentation of all of our facilities and what we
17 bring in through our automation and our monitoring
18 system.

19 And we have every well in North and South
20 Hobbs come into Graph Works, every tank battery,
21 every tank that we have, every pressurized vessel.
22 And even some of our lines are -- are on this, come
23 in as data acquisition points.

24 Q. And can this system be accessed both with
25 laptops and desktops?

1 A. Yes, they can be. A laptop, desktop. I
2 can even access it on my iPhone. It's a little
3 tough because it's small, but we can get access
4 through any communication system that will hit --
5 hit the internet or a network system.

6 Q. Do you remember those sheds that you saw
7 on the satellite that you pointed out?

8 A. Yes.

9 Q. Okay. If we turn to Slide Number 9, does
10 this depict some of the monitoring equipment that is
11 within each one of those sheds?

12 A. Yes, it does.

13 Q. Okay. What does this do?

14 A. This is the PLC that I talked about
15 earlier. It's a programmable logic controller. And
16 it is a computer that works on-site. These screens
17 right here are -- are just a, you know, display of
18 what's going on in the computer, much like your
19 monitor on your computer at your desk.

20 It is a touchscreen, so we can -- we can
21 do anything we want to, scheduling -- you know, we
22 can't change the parameters in here. That's -- we
23 can if we have the proper documentation, the proper
24 analysis done.

25 But this is a -- this is where our

1 production techs and injection techs come on a daily
2 basis to change wells and WAG cycles and to monitor
3 their equipment on location with these screens.

4 Q. What is WAG?

5 A. WAG is a water alternating gas or water
6 and gas. I don't know the exact.

7 But when we inject into these injection
8 wells we have different cycles. We'll pump so many
9 days of just water into this well, and then we'll
10 switch it over to gas for so many days. So we call
11 that a WAG cycle.

12 Q. Now, you've mentioned you have constant
13 monitoring of this data through your Graph Works?

14 A. Yes, we do.

15 Q. It is done by your field personnel?

16 A. That's right.

17 Q. What do you do at night?

18 A. We actually have personnel in the field 24
19 hours a day. So we have night riders that work at
20 night to monitor this equipment.

21 But along with that we also have a well
22 analyst that is at a remote location. He also sees
23 a lot of this data.

24 And then we have, you know, our alarms
25 coming into a 24-hour manned alarm center.

1 Q. How long has this monitoring system been
2 in place at the North Hobbs Unit?

3 A. This was a -- this was put in place with
4 an initiation in 2003 of the CO2 flow.

5 Q. And has it worked well for the company?

6 A. Yes, it has. We have a very good success
7 rate. It's a very state-of-the-art. We -- most of
8 our transmitters are things that -- solid state. So
9 if we have a failure it gives us a notification that
10 we have a failure of that piece of equipment or that
11 transmitter.

12 So we -- we have a very, very low failure
13 rate on this equipment.

14 Q. And does the company intend to continue to
15 use this type of equipment for the expansion of it?

16 A. Yes, we do.

17 Q. Okay. Now, I want to talk a little bit
18 about corrosion management.

19 And first off, is the monitoring that you
20 do with your SCADA system, does that assist with,
21 you know, managing corrosion issues?

22 A. Yes, it does.

23 Q. And how is that?

24 A. Well, temperature and water content are --
25 you know temperature can -- fluctuations, we've got

1 parameters we keep that in to keep condensation
2 down. And so monitoring the temperature, water --
3 water content at the RCF, and the gas analysis at
4 the RCF, we monitor those so we can -- we can
5 determine whether we are creating a situation that
6 might be a potential corrosion point.

7 Q. In addition to that, does -- no, let me
8 step back.

9 You mentioned that you were -- as the
10 operations manager, you're involved in the design,
11 the fabrication, and essentially the management and
12 maintenance of this equipment?

13 A. That's correct.

14 Q. Okay. So in addition to monitoring the
15 water content and the temperature in the system,
16 does Oxy, at the outset, follow certain standards
17 when they are designing or when they are fabricating
18 and then maintaining this -- these surface
19 facilities?

20 A. Yes, we do.

21 Q. Okay. And were you present last year when
22 Mr. Charpoy testified at length before the
23 commission about the standards that Oxy uses in the
24 design, fabrication, and maintenance of their
25 facilities?

1 A. Yes, I was.

2 Q. Okay. And do you recall that he also
3 testified that Oxy's major capital projects like
4 this utilize a team of subject matter experts that
5 draw from their worldwide expertise?

6 A. Yes.

7 Q. And is that same team, Mr. Hodges,
8 involved in the design, the fabrication, and
9 installation of the equipment that's going to be
10 used for this expansion project?

11 A. Yes, they are.

12 Q. As the operations manager, are you
13 familiar with NACE Standard MRO 175?

14 A. Yes, I am.

15 Q. If you'll turn to what's been marked as
16 Slide 10, is this the provision from the division
17 rules that require those standards to be followed
18 when you -- when you are dealing with potentially
19 hazardous hydrosulfide volumes?

20 A. Yes, that is correct.

21 Q. Okay. And does that standard essentially
22 identify the materials and the procedures that are
23 to be used for the installation of surface
24 equipment?

25 A. Yes, it does.

1 Q. In addition to MRO 175 does Oxy, as a
2 company, draw upon other standards?

3 A. Yes, we do.

4 Q. And if I turn to what's been marked as Oxy
5 Exhibit Number 11, does this outline the various
6 standards that the division utilizes -- I'm sorry --
7 that Oxy utilizes when it is designing and
8 fabricating the -- its equipment for these types of
9 projects?

10 A. Yes, we do.

11 Q. And for example, what is ASME on this Oxy
12 Slide 11 of Exhibit 6?

13 A. That's the American Society of Mechanical
14 Engineers.

15 Q. And then API is American Petroleum
16 Institute?

17 A. That is correct.

18 Q. Okay. And do these additional standards
19 essentially provide guidelines and checklists that
20 assist in maintaining the integrity of this surface
21 equipment?

22 A. Yes, they do.

23 Q. And does the -- will these provisions be
24 utilized in the design, fabrication, and maintenance
25 of the additional facilities that Oxy will install

1 as part of the Phase I expansion?

2 A. Yes, they will. They will follow the same
3 standards that we have previously in the field.

4 Q. Now, the maintenance standards that the
5 company utilizes.

6 Is your group responsible for those
7 procedures?

8 A. We don't write those procedures.
9 Worldwide engineering hands those procedures down to
10 us, the mechanical integrity, and we ensure that
11 these maintenance procedures are followed and
12 conducted on a periodic basis.

13 Q. Okay. Now, this deals with surface
14 facilities.

15 How does the company intend to address
16 corrosion mitigation downhole?

17 A. The methods we use downhole are the same,
18 with compliance with NACE.

19 Q. So if I go to Slide 12, does this identify
20 the provisions that the company utilizes?

21 A. Yes, that is correct. We use injection
22 tubing that is fiberglass line that prevents
23 corrosion on that tubing.

24 Injection packers are nickel-plated carb
25 steel. I know you asked that question before. And

1 they are nickel plated.

2 And then our annulus is filled with an
3 inert packer fluid which includes a combination of
4 corrosion inhibitors and biocide.

5 Q. Is that being done now for the North Hobbs
6 Unit?

7 A. Yes, it is.

8 Q. And will that continue to be done as you
9 move -- expand the gas injection in the North Hobbs
10 Unit?

11 A. Yes, it will be.

12 Q. If I have you turn to Oxy Exhibit
13 Number 3, the commission's order that was issued
14 last year.

15 And if you would go, Mr. Hodges, to
16 page 12 of that order.

17 These would be watering paragraphs.

18 And I want you to look at watering
19 paragraph 11. That talks about the -- filling the
20 casing tubing annulus with inert packer fluid.

21 Do you see that?

22 A. Yes, sir.

23 Q. And will it contain biocide and corrosion
24 inhibitors?

25 A. Correct.

1 Q. Okay. And then if you will look, for
2 example at paragraph 12, there's provisions in there
3 that require the use of a special type of cement.

4 Do you see that?

5 A. Yes, I do.

6 Q. Okay. And does Oxy intend to follow those
7 procedures with respect to its -- these injec- --
8 these new injection wells?

9 A. I have been informed that that's -- that
10 is the procedures in our drilling program.

11 Q. Okay. You mentioned that -- well, I think
12 there's been testimony that the gas injection in the
13 North Hobbs Unit started in 2003, right?

14 A. Correct.

15 Q. And the company has followed its protocols
16 and the standards that we just reviewed in the
17 design, fabrication, and maintenance of those
18 facilities since that time?

19 A. That's correct.

20 Q. So we're talking about ten years, right?

21 A. Right.

22 Q. Did the company conduct an extensive
23 MIT -- mechanical integrity inspection, I guess,
24 right?

25 A. Right.

1 Q. Recently?

2 A. Yes. In August of 2012 we took every
3 pressurized vessel that we have in North Hobbs in
4 the CO2 project. We externally inspected those with
5 a V-scan program.

6 We went internally and did a grid test
7 inspection of the internals of each vessel that we
8 have in North Hobbs.

9 During this time we had had a shutdown in
10 North Hobbs to do some other work, so we took that
11 opportunity. But it was also in compliance with the
12 ten-year inspection period.

13 But during all of the inspection we did
14 not -- we found no anomalies and no variances to the
15 specifications that they were looking for. So we
16 had no corrosion on any of those vessels for a
17 ten-year period.

18 Q. Then I want to talk about the last topic
19 you were going to address, and that's the mechanical
20 integrity test frequency for TA wells.

21 A. Right.

22 Q. And if I turn to Slide 13.

23 Mr. Hodges, this is the division's current
24 rule that provides that -- that you can place a well
25 in temporary abandonment status following an MIT for

1 a period of up to five years.

2 Do you see that?

3 A. Yes.

4 Q. Okay. So that rule, at least,

5 contemplates that in some circumstances a well can

6 remain in TA status without an additional MIT for a

7 period of up to five years?

8 A. Right.

9 Q. Does Oxy intend to place realtime pressure

10 monitoring devices on TA wells as you move forward

11 with this expansion project?

12 A. Yes, we will.

13 Q. And do those -- are those realtime

14 pressure monitoring devices connected to your SCADA

15 system?

16 A. Yes, they are.

17 Q. And will they provide constant realtime

18 pressure information?

19 A. Yes, they will.

20 Q. Okay. And does Oxy, therefore, request

21 that for those wells which are TA, and which they

22 have these types of equipment installed, that the

23 division allow up to five years before another

24 mechanical integrity test is done?

25 A. Yes, we do.

1 Q. And if I turn to Slide 14, is that the --
2 kind of the outline of the request that you seek
3 with respect to these -- this MI -- MIT testing
4 period?

5 A. Yes, that is correct.

6 Q. Now as part of that, though, the company,
7 as it states in here, is going to continue with this
8 annual Bradenhead test.

9 Is that right?

10 A. That is correct.

11 Q. Okay. Then if I go to Exhibit Number 3,
12 and I go to page 13 of the -- of the division's
13 order from last year, and I turn to -- and I look at
14 ordering paragraph 16 on page 13.

15 A. Yes.

16 Q. Is that the relief that the company
17 likewise requests for the expanded Phase I area in
18 the North Hobbs Unit?

19 A. Yes, that is correct.

20 Q. All right.

21 Then are these slides that comprise Oxy
22 Exhibit Number 6, were they compiled by you or put
23 together under your direction and supervision?

24 A. Yes, they were.

25 Q. Madam Chair, at this point, then, I would

1 move the admission into evidence of Oxy Exhibit
2 Number 6.

3 MADAM CHAIR BAILEY: It is admitted.

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

6 MADAM CHAIR BAILEY: Commissioner Balch,
7 do you have any questions?

8 COMMISSIONER BALCH: It's still good
9 morning, Mr. Hodges.

10 THE WITNESS: I'm sorry?

11 COMMISSIONER BALCH: It's still morning,
12 so good morning, Mr. Hodges.

13 THE WITNESS: Good morning.

14 COMMISSIONER BALCH: I know we had this
15 discussion with regards to the South Hobbs last
16 summer.

17 But the composition of the produced gas,
18 do you have a -- could you outline that composition
19 for me?

20 THE WITNESS: The composition of the
21 produced gas?

22 I don't know it all. I know that we've
23 got -- it's about 82 percent CO2 coming back. We do
24 have, you know, the NGLs in it that we extract at
25 our RCF. I don't know the exact composition of

1 that, but I know we do have a gas chromatograph that
2 reads that composition.

3 COMMISSIONER BALCH: What about the H2S?

4 THE WITNESS: H2S? We have about
5 1 percent H2S coming into the RCF and about 1 --
6 1.1, 1.2 leached.

7 COMMISSIONER BALCH: So you strip out the
8 liquids, and then you are reinjecting methane, H2S,
9 and CO2?

10 THE WITNESS: Yes.

11 COMMISSIONER BALCH: Primarily CO2?

12 THE WITNESS: Yes, sir.

13 COMMISSIONER BALCH: The separator tests
14 that go on at the satellites.

15 Mr. Brockman indicated those would be
16 about 12-hour tests?

17 THE WITNESS: Right.

18 COMMISSIONER BALCH: Typically speaking?

19 THE WITNESS: Right.

20 COMMISSIONER BALCH: In your opinion, is
21 that enough time to get an adequate separation of
22 all of those fluids and gases?

23 THE WITNESS: Yes, I think so. It's
24 pretty -- it's indicative of what's going on. And
25 we -- when we get those shorter tests sometimes what

1 we're trying to see is the gas rate, and is the GOR
2 out of line for what we want to produce.

3 Can we find a more economical well, you
4 know, with a lower GOR that will -- so within 12
5 hours -- and we usually see it pretty quick. But I
6 would say that 12 hours is very representative of
7 what that well will produce for a 24-hour period.

8 COMMISSIONER BALCH: On your injection
9 planning map, most of the new CO2 is coming in kind
10 of on the southeast portion of the North Hobbs Unit,
11 and it looks like it's being injected along that
12 southeast mar- -- or south/southeast margin of the
13 North Hobbs Unit, and all of the reinjected produced
14 gas is going in northwest of there.

15 Is there a particular operational reason
16 why all of the new CO2 is coming in on one end of
17 the field and the reinjected gas on the other end?

18 THE WITNESS: Well, Mr. Brockman might be
19 better to answer that.

20 But I do know that we have an internal
21 policy with Oxy that we do not inject any sour CO2,
22 which is produced gas with CO2, inside the city
23 limits.

24 COMMISSIONER BALCH: Okay. So all the
25 fresh CO2 is going in where you're --

1 THE WITNESS: The sour produced is going
2 in outside the city limits.

3 COMMISSIONER BALCH: Thank you,
4 Mr. Hodges.

5 MADAM CHAIR BAILEY: Mr. Warnell?

6 COMMISSIONER WARNELL: Just one or two
7 questions, I believe, for Mr. Hodges.

8 What's the electrical backup system if the
9 grid goes down in Hobbs and you lose all power?

10 THE WITNESS: If the electrical supplier
11 goes down?

12 COMMISSIONER WARNELL: Yes.

13 THE WITNESS: Everything in our field will
14 go to a failed closed position, so we are completely
15 down.

16 COMMISSIONER WARNELL: Do you have
17 generator backups to bring them back up, or you're
18 just at the mercy of the power company waiting
19 for...

20 THE WITNESS: Right now our -- all of our
21 PLCs in the field have battery backup that are solar
22 powered.

23 Our server at our Hobbs office and our
24 tower that contains our SCADA both have generators
25 for backup.

1 COMMISSIONER WARNELL: So if you did get
2 an alarm in the middle of the night or on the
3 weekend or holiday and something shuts down, what
4 happens then? Who gets notified? You don't have
5 people out in the field, you have people working
6 24/7, 365, monitoring remotely?

7 THE WITNESS: Yes. sir. Well, we actually
8 have somebody in the field 24/7, 365.

9 COMMISSIONER WARNELL: So there would be
10 boots on the ground. Somebody would go out to that
11 particular well site or well?

12 THE WITNESS: That is correct.

13 COMMISSIONER WARNELL: And then does he
14 have the ability, the responsibility, to get that
15 system back up and running or who turns the alarm
16 off and the system back on?

17 THE WITNESS: That person that's in the
18 field, when he gets the notification, he will go to
19 that location.

20 But he will also call -- we have two other
21 people on call. We have a first out and a second
22 out for weekends and nights.

23 And he will call for a backup. We don't
24 go into an environment that might have potential H2S
25 without a backup, and we'll air up and look for the

1 situation.

2 Once they -- they find and mitigate the
3 situation, then they have the ability to clear that
4 alarm and go ahead and bring that system back
5 online.

6 So it's really not -- that one person is
7 first on the scene to assess it visually from a safe
8 distance, and waiting on -- and our response time in
9 Hobbs is, with a backup, with a first out and a
10 second out, is -- since we're so close it's five to
11 seven minutes.

12 COMMISSIONER WARNELL: Thank you.

13 I have no further questions.

14 MADAM CHAIR BAILEY: You have razor wire
15 around the satellites. But how bad is vandalism,
16 since you're so near a population center?

17 THE WITNESS: Vandalism and theft are a
18 problem. And you know we lock our facilities but,
19 you know, people will cut fences and get in. We
20 don't have it happen very often.

21 But most of -- most of our vandalism is,
22 you know, where people are stealing small pieces of
23 copper. As far as anybody sabotaging any of our
24 facilities, we have never had that happen.

25 MADAM CHAIR BAILEY: Following up on

1 Commissioner Warnell's questions, I vaguely recall
2 that you had two night riders when there was
3 testimony for the South Hobbs Unit.

4 Are you planning on increasing the number
5 of night riders?

6 THE WITNESS: Yes, ma'am, we are. I -- I
7 haven't got complete approval on that yet, but that
8 is our plan whenever we go into South Hobbs and
9 initiate that CO2 flood.

10 MADAM CHAIR BAILEY: Okay. Let's go
11 through the exercise of the orders.

12 THE WITNESS: Okay.

13 MADAM CHAIR BAILEY: On paragraph 9 of
14 Order Number R-4934-F concerning the South Hobbs
15 Unit, there is a requirement for a one-way automatic
16 safety valve installed at the surface of all
17 injection wells to prevent flowback.

18 Do you agree with that for the North Hobbs
19 Unit?

20 THE WITNESS: One-way safety valve?

21 MR. FELDEWERT: That's on page 12?

22 MADAM CHAIR BAILEY: On page 12 of the
23 order.

24 MR. FELDEWERT: Then paragraph 9.

25 THE WITNESS: I don't believe that that's

1 the same for the -- for the remote injection wells
2 that we're going to have in this North Hobbs
3 expansion.

4 MADAM CHAIR BAILEY: What are the
5 provisions to prevent flowback during an emergency
6 startup or shutdown?

7 THE WITNESS: That would be our robust
8 design of the check valve on our wellhead.

9 MADAM CHAIR BAILEY: The check valve is an
10 automatic safety valve?

11 THE WITNESS: No, ma'am.

12 MADAM CHAIR BAILEY: What is the
13 difference?

14 THE WITNESS: I'm trying to absorb this,
15 if you'll just give me a second.

16 MADAM CHAIR BAILEY: Sure. Take your
17 time.

18 THE WITNESS: Well, in looking at the
19 way -- we will have an automatic safety valve on
20 each one of our injection lines.

21 MADAM CHAIR BAILEY: At the surface of all
22 injection wells?

23 THE WITNESS: It will be at the injection
24 header.

25 MADAM CHAIR BAILEY: Will it accomplish

1 what paragraph 9 here is attempting to do?

2 THE WITNESS: No, ma'am. I believe that
3 the automatic safety valve that that's referring to
4 is the check valve at the wellhead.

5 MADAM CHAIR BAILEY: So --

6 THE WITNESS: And that will be installed
7 on each and every injection well. That is correct,
8 in that terminology.

9 MADAM CHAIR BAILEY: Okay.

10 Are you the right person to talk about
11 paragraph 13 for cement bond logs run prior to
12 injection, or is that somebody else?

13 THE WITNESS: No, ma'am. That would be
14 somebody else.

15 MADAM CHAIR BAILEY: Okay.

16 Paragraph 15 of that order says the
17 mechanical integrity test will be conducted on all
18 injection wells every two years.

19 THE WITNESS: That would be somebody else
20 also.

21 MADAM CHAIR BAILEY: Okay.

22 You did discuss failure potential. And
23 we're looking for a commitment to notify the OCD
24 district office immediately in any of the injection
25 wells, et cetera, to take all steps necessary to

1 correct such failure.

2 THE WITNESS: That's correct. Are you
3 looking at 19, ma'am?

4 MADAM CHAIR BAILEY: Yes, I am.

5 THE WITNESS: Yes, ma'am.

6 MADAM CHAIR BAILEY: So you could commit
7 to that?

8 THE WITNESS: Yes, ma'am.

9 MADAM CHAIR BAILEY: Okay. Can you commit
10 to Number 20 concerning maintenance of reported data
11 from SCADA?

12 THE WITNESS: Yes, ma'am.

13 MADAM CHAIR BAILEY: How about paragraph
14 22, that the hydrogen sulfide contingency plan shall
15 be reviewed and amended as necessary?

16 THE WITNESS: Yes, ma'am. I can commit to
17 that.

18 MADAM CHAIR BAILEY: Okay.

19 I think that's all the questions I have.
20 Do you have any followup, Mr. Feldewert?

21 MR. FELDEWERT: I do not, Madam Chair.
22 And just -- our next witness is probably going to
23 take an hour of direct, maybe a little less.

24 MADAM CHAIR BAILEY: Well, why don't we
25 have lunch first and come back here at 1:00.

1 (A recess was taken from 11:46 a.m. to
2 1:01 p.m.)

3 MADAM CHAIR BAILEY: It's 1:00. It's time
4 to go back on the record.

5 Mr. Feldewert, I think you were about to
6 call your next witness.

7 MR. FELDEWERT: Thank you, Madam Chair.
8 We will call Kelley Montgomery.

9 KELLEY MONTGOMERY,
10 after having been first duly sworn under oath,
11 was questioned and testified as follows:

12 EXAMINATION

13 BY MR. FELDEWERT:

14 Q. Would you please state your name and then
15 identify by whom you are employed and in what
16 capacity?

17 A. I'm Kelley Montgomery. I'm employed by
18 Oxy, and I'm currently a regulatory consultant.

19 Q. And do your employment responsibilities
20 include the North Hobbs Unit and the South Hobbs
21 Unit?

22 A. Yes, they do.

23 Q. And I believe, Ms. Montgomery, you've
24 testified before the commission in connection with
25 the application that was filed for the South Hobbs

1 Unit a year ago, correct?

2 A. Yes, I did.

3 Q. And at that time, had you prepared the
4 C-108 application and supervise the area of review
5 that was part of that application a year ago?

6 A. I did.

7 Q. And have you, likewise, prepared the C-108
8 and supervised the area for review analysis for this
9 application to expand the Phase I area in the North
10 Hobbs Unit?

11 A. I have.

12 Q. And the area of review analysis is
13 actually -- and your C-108 is actually contained in
14 a notebook that has been marked as Oxy Exhibit
15 Number 1.

16 Is that correct?

17 A. That's correct.

18 Q. And did you meet with the division's
19 engineering department concerning your C-108
20 application and your area of review analysis?

21 A. Yes, I did.

22 Q. And did you have more than one meeting?

23 A. Yes.

24 Q. Did you also have telephone conversations?

25 A. Yes, I did.

1 Q. Okay. Did you prepare slides to assist
2 you in your presentation?

3 A. Yes, I did.

4 Q. If I look at Oxy Exhibit Number 7, are
5 those the slides that you prepared for today?

6 A. Yes, they are.

7 Q. And it comprises 19 separate slides,
8 correct?

9 A. That's correct.

10 Q. All right. Now, Ms. Montgomery, are you
11 also an engineer?

12 A. Yes, I am.

13 Q. And if I look at Slide 1 of Exhibit 7,
14 does that accurately summarize your educational
15 background and your work history?

16 A. Yes, it does.

17 Q. And it reflects, does it not, that you've
18 been a registered professional engineer since, what,
19 1998?

20 A. Yes. That is correct.

21 Q. And you have roughly 23 years as a --
22 experience as a production engineer and an
23 environmental engineer?

24 A. Yes. That's correct.

25 Q. Do you have experience with CO2 floods?

1 A. Yes. All of my career has been spent in
2 the CO2 floods. And as a production engineer, all
3 of my fields were CO2 floods.

4 Q. And when you previously testified before
5 the commission, were you qualified as an expert
6 witness in oil and gas production engineering and
7 environmental engineering?

8 A. Yes, I was.

9 MR. FELDEWERT: Madam Chair, I would
10 re-tender Ms. Montgomery as an expert witness in oil
11 and gas production engineering and environmental
12 engineering.

13 MADAM CHAIR BAILEY: She is accepted.

14 Q. (By Mr. Feldewert) Ms. Montgomery, what
15 topics will you address for the commission here
16 today?

17 A. Today I will address three topics: We'll
18 talk about the -- qualifying for the tax incentive,
19 we'll go over the C-108 and the injectors, and then
20 the area of review.

21 Q. Now, Ms. Montgomery, turning to the tax
22 incentive information first of all, are you familiar
23 with Division Order R-9708 that identifies the
24 information necessary to qualify this expansion for
25 the tax relief afforded in the Enhanced Oil Recovery

1 Act?

2 A. Yes.

3 Q. Okay. Let's see if we can -- in the
4 interest of time -- kind of quickly skim through
5 that information. Okay?

6 A. Okay.

7 Q. If we turn to what's been marked as Slide
8 Number 2 in Exhibit 7, does that accurately depict
9 the geographic area of the expansion?

10 A. Yes, it does.

11 Q. If I turn to what's been marked as Slide
12 3, does that accurately identify the acreage in the
13 project area?

14 A. Yes.

15 Q. Does it identify the pools and formation
16 of all of that area?

17 A. Yes, it does.

18 Q. And then it identifies the current
19 operations in the proposed expansion?

20 A. Yes, it does.

21 Q. Okay. Then if I turn to what has been
22 marked as Slide Number 4, it provides an accurate
23 estimate of the capital costs of these additional
24 facilities?

25 A. Yes.

1 Q. And then the total project capital cost?

2 A. Yes.

3 Q. And does it also provide an estimate of
4 the additional production that you would expect from
5 this expansion project?

6 A. Yes, it does.

7 Q. As well as the type of injectants and
8 anticipated volumes?

9 A. Correct. Yes.

10 Q. And then if I turn to Slide 5, that notes
11 that Section 3 in your C-108 application provides a
12 list of current production in injection wells, does
13 it not?

14 A. Yes, it does.

15 Q. So if we put this aside for a moment and
16 go to Oxy Exhibit Number 1, if we go to the tab
17 that's labeled -- that's the C-108 in Exhibit 1.

18 A. Yes.

19 Q. Okay. Are you there?

20 A. Yes.

21 Q. Okay. And in Exhibit 2 --

22 A. I actually think that's in the application
23 section.

24 Q. Okay. So if we go to the application
25 section.

1 We are looking for Exhibit D, correct?

2 A. That's correct, yes.

3 Q. So if I go into the first tab and I go
4 one, two, three, four, five, six pages, we get to a
5 map. And then following the map is Exhibit D, as in
6 dog?

7 A. Yes.

8 Q. And is that an accurate list of the
9 current producing wells?

10 A. Yes, it is.

11 Q. And then if I page through four pages of
12 Exhibit D and I get over to Exhibit E, is that an
13 accurate list of the current injection wells?

14 A. Yes, it is.

15 Q. Okay. And then as I continue through this
16 and I get to Exhibit F, which we also have in our
17 notebook as Slide 6, does this provide the
18 historical production from the North Hobbs Unit?

19 A. Yes, it does.

20 Q. And then the next page, which would be
21 Exhibit G, which also corresponds to Slide 7, is
22 that the estimate of the anticipated production with
23 the expansion into the Phase I area?

24 A. Yes, the incremental forecast production.

25 Q. Okay. Now, did you assist in preparing

1 these exhibits and these graphs?

2 A. Yes, I did.

3 Q. And do they accurately summarize the
4 historical performance and the expected future
5 performance?

6 A. Yes, they do.

7 Q. Okay. Now, I want to talk about the
8 proposed expansion area and the proposed injection
9 wells. Okay?

10 A. Okay.

11 Q. If you look at Exhibits A and B to this
12 application -- so if we go back to the tab and we go
13 to Exhibit A, that's a list of the injection wells
14 by quarter-quarter section in the expanded area?

15 A. Yes, it is.

16 Q. And does this follow, Ms. Montgomery, the
17 authority that was provided by the division in 2001,
18 when the Phase I area was initially approved?

19 A. Yes.

20 Q. Okay. In other words, at that time was
21 there an exhibit to that order that identified the
22 well locations by quarter-quarter section?

23 A. Yes, there was.

24 Q. Okay. And they would then list what each
25 one determined at that point?

1 A. That's correct.

2 Q. And in coming up with your list of
3 additional injectors for the expanded area you
4 followed the same format?

5 A. Yes, we did.

6 Q. Okay. And how many of the proposed
7 injection wells are listed on Exhibit A by
8 quarter-quarter section?

9 A. 141.

10 Q. And that comprises the four pages of
11 Exhibit A?

12 A. Yes, it does.

13 Q. Okay. And then if I go to Exhibit B, is
14 this the list of wells that you would -- that you
15 anticipate converting from producers into injectors?

16 A. Yes, but some of them are water injectors.
17 The majority are water injected, but they will be
18 converted to CO2 injection.

19 Q. Okay. And it looks like one of them is a
20 temporarily abandoned well.

21 Is that correct?

22 A. That's correct. And one is a producer.

23 Q. And you were able to identify those wells
24 by API number?

25 A. Yes.

1 Q. And how many of those wells do we have?

2 A. 22.

3 Q. So these would be 22 conversion wells?

4 A. That's correct.

5 Q. Okay. Then I would like to talk initially
6 about these 22 conversion wells that are listed on
7 your application Exhibit B.

8 And to do that, let's move to Slide 8 of
9 Exhibit Number 7. Okay?

10 A. Okay.

11 Q. Now, what did you do with respect to these
12 22 wells that you were converting to gas injection?

13 A. What I've done with these wells, when we
14 were looking at them, is -- well, of course all of
15 them have individual wellbore diagrams, so we
16 attempted -- I attempted to group them into three
17 categories based on their well construction, how
18 they -- the type of casing, the amount of casing
19 they have.

20 So those are my three categories here.

21 Q. And I hate to flip back and forth too many
22 times.

23 But if we look at Exhibit Number 1 -- so
24 let's keep this open and look at Exhibit Number 1,
25 and we go to the tab that says "Injection Well Data

1 Sheets."

2 That first 22 wells correspond to your
3 Exhibit B, correct?

4 A. Yes, they do.

5 Q. And then the last entry on this first
6 page, this pullout page under the injection well
7 data sheet, would correspond to all of your proposed
8 new drills in the quarter-quarter section, right?

9 A. Yes. That is correct.

10 Q. And behind this sheet, then, you have
11 information on each of the 22 wells that you seek to
12 convert?

13 A. Yes, we do.

14 Q. And then behind that you have individual
15 well diagrams for each of those 22 wells?

16 A. Yes. That's correct.

17 Q. Okay. Now in breaking this group down
18 into groups, or this 22-well -- these 22 wells in
19 the group, or bucket, what did you do? How did you
20 group them?

21 A. Okay. I tried to find -- to group them
22 into things that they had in common, so that we
23 could talk about them here.

24 All 22 wells, their surface casing is
25 cemented to surface.

1 16 of those 22 wells -- that's up here.

2 16 of them are constructed with surface
3 and production casing. And of those, 6 of them the
4 production casing is cemented to surface, and 10 of
5 them have, minimum, 1,070 feet of cement above our
6 unitized interval.

7 Three of the 22 existing wells are
8 constructed with surface casing, intermediate
9 casing. They have production casing, and they also
10 have a full liner.

11 Of these three wells, all of them have at
12 least a thousand feet of cement above the unitized
13 interval.

14 We have three wells that are constructed
15 with surface intermediate production, and then a
16 partial liner that covers the injection interval.

17 And of these wells, they have at least
18 660 feet of cement above our unitized interval.

19 Q. Okay. So let's now move forward and
20 address each one of these three groups. Okay?

21 A. Okay.

22 Q. If you turn to Slide 9, does this
23 correspond to the first grouping of the wells? That
24 would be 16 of the 22 conversion wells.

25 A. Yes, it does.

1 Q. And explain to us the colors and the
2 depictions on here, please.

3 A. Okay. This is our existing wells, and
4 there's 16 of them of the 22. And they have surface
5 and production casing. So the black set of casing
6 is your surface casing.

7 In all of these wells, it's set between
8 1,510 feet and 1,664 feet.

9 All of these have cement circulated to
10 surface. And we -- and that's depicted with the
11 gray behind the pipe and the dotted -- the dots in
12 it.

13 The next string of casing is depicted in
14 red, and that's your production casing.

15 All of the production casing in this
16 grouping of wells is set between 4,370 and 4,510.

17 6 of these have cement all the way to
18 surface, and 10 of them have at least 1,070 feet of
19 cement above the unitized interval.

20 The way I've tried to depict this is where
21 you see the gray with the dots, that is solid cement
22 that all of them have.

23 Where you see the hashmarks, that means
24 that these wells will have cement somewhere in
25 between -- all of those 16 wells will stop somewhere

1 in this interval.

2 So right here is where your 1,070 feet is
3 above the unitized interval.

4 Q. Okay. Then your next group of wells would
5 have been 3 of the 22?

6 A. Yes.

7 Q. Okay. And if I turn to Slide 10, does
8 that depict the condition of that group of wells?

9 A. Yes, it does.

10 Q. Okay. And walk us through these colors
11 and the markings, please.

12 A. Okay. This has a little bit -- a little
13 bit more to it.

14 The surface casing, again, is in black.
15 The surface casing on these wells is set between 205
16 and 296, and the cement is circulated to surface on
17 all of them.

18 All of these wells also have an
19 intermediate string of casing that's depicted in
20 green. These are set between 2,750 and 2,760. And
21 there's 1,600 feet of cement above the casing shoe
22 on all of these wells -- a minimum of, excuse me.

23 There's also the red, which is our
24 production casing. It's set between 3,825 and 3,968
25 on these wells. The top of it -- let's see.

1 There's at least a thousand feet of cement above the
2 unitized interval on the production string.

3 These 3 wells also have a full liner
4 depicted in blue. And it's set between 4,226 and
5 4,244. And there's at least a thousand feet of
6 cement above the unitized interval in the liner.

7 Q. Okay. So we've covered 19 of the 22,
8 right?

9 A. Yes.

10 Q. All right. Of the three left, you broke
11 those down into a group of two and then a single
12 well?

13 A. That's correct.

14 Q. All right. Let's go to the next group of
15 two, which would be Slide 11 of Exhibit 7.

16 A. Okay. Yes. On these two wells you have
17 surface casing, again in black, set between 242 and
18 246, with cement circulated to surface.

19 You have an intermediate string set
20 between 2,850 and 2,800. And there is at least
21 440 feet of cement above the casing shoe here.

22 You have production casing in red set
23 between 3,955 and 3,975, and at least 660 feet of
24 cement above the unitized interval.

25 These also have a partial liner where the

1 cement is -- is to the top of the liner across the
2 injection interval.

3 Q. Okay. Now, you were here for
4 Mr. Stilwell's discussion of the protectable water
5 zone in this area?

6 A. Yes.

7 Q. Okay. In your opinion, are these wells
8 that we've reviewed, Ms. Montgomery, do each of
9 these wells have sufficient casing and cement to
10 prevent migration of injected fluids out of these
11 proposed injection intervals?

12 A. Yes, they do.

13 Q. And in your opinion, would utilizing these
14 wells for gas injection pose an unreasonable threat
15 to groundwater or environment?

16 A. No, it will not.

17 Q. Okay. Now there was a last well in your
18 initial group of 22 conversion wells, correct?

19 A. That's correct.

20 Q. And I believe this is the well that
21 Ms. Bailey referenced earlier?

22 A. Yes, I believe so.

23 Q. Okay. If you turn to what's been marked
24 as Slide 12, does that deal with the -- with that
25 particular well?

1 A. Yes, it does.

2 Q. And what -- what is this -- the status of
3 this well? What's it currently being used for?

4 A. It's currently a water injector.

5 Q. And how long has that been operating as a
6 water injector?

7 A. About 20 years, I believe.

8 Q. Okay. Is it similar to the prior wells
9 that we've just reviewed?

10 A. It is. It's similar, in the fact that it
11 has surface casing cemented to surface. We have an
12 immediate string, where you have 1,770 feet of
13 cement above the casing shoe to prevent any
14 migration of fluids into the base of freshwater.

15 A production string with at least 830 feet
16 above the unitized interval, and then a partial
17 liner across the injection interval.

18 Q. But there is a difference, correct?

19 A. There's a difference in this one, which we
20 discussed with the chief engineer of the division.

21 In this particular one the base of the
22 freshwater comes below where the surface casing is
23 set, and there's not cement behind one of the
24 strings of pipe on this well.

25 Q. In your opinion, Ms. Montgomery, looking

1 at this diagram and taking into account the existing
2 cement and the casing, are there sufficient measures
3 in place to prevent migration of fluids out of the
4 injection zone?

5 A. Yes.

6 Q. Okay. And it's actually been operating as
7 a water injection well without incident, correct?

8 A. That's correct.

9 Q. Okay. Nonetheless, after having met with
10 the division examiner, are there steps that the
11 company is going to take before this well is
12 converted to a gas injection well?

13 A. Yes. We would like to put -- or we have
14 agreed to put cement behind one of the strings of
15 casing such that you have an added layer of
16 protection across the base of freshwater.

17 Q. And you visited on that point with the
18 division's chief --

19 A. Yes.

20 Q. -- engineer?

21 A. Yes, I did.

22 Q. Okay. That deals with the conversion
23 wells, correct?

24 A. That's correct.

25 Q. Now, let's look at -- that dealt with the

1 22 conversion wells. But we have 141 wells that are
2 going to be eventually new drills?

3 A. That's correct.

4 Q. And if I turn to what has been marked as
5 Slide 13 in Exhibit Number 7, does it describe the
6 design for these -- maybe I got my figure wrong. It
7 says 163. Is that...

8 A. Well, of the total 163 injectors, 141 are
9 new wells.

10 Q. Okay. And so does this describe the
11 design for your 141 new drills?

12 A. Yes, it does.

13 Q. And what do you -- what does the company
14 plan to do?

15 A. Our design is the same on all wells.
16 We'll set surface casing at 1,550 and cement that to
17 surface.

18 And then we'll set our production casing
19 around 4,500, and also plan to cement that to
20 surface.

21 Q. Okay. And will that be the same whether
22 it's a new -- vertical new drill or a directional
23 new drill?

24 A. Yes, it will.

25 Q. Okay. And if I turn to Slide 14 of

1 Exhibit 7, is this a graphic depiction of your
2 design for those 141 wells set forth on Exhibit A to
3 the application?

4 A. Yes, it is.

5 Q. And in your opinion, Ms. Montgomery, will
6 the proposed design have sufficient casing and
7 cement to prevent migration of the injected fluids
8 out of the proposed injection interval?

9 A. Yes, it will.

10 Q. And will this proposed design create an
11 unreasonable threat to groundwater or the
12 environment?

13 A. No, it will not.

14 Q. Okay. Now I would like to move,
15 Ms. Montgomery, to your area of review analysis.
16 Okay?

17 A. Okay.

18 Q. First off, as reflected in Slide 15, that
19 analysis is contained in Oxy Exhibit 1. And in this
20 case it's under a tab labeled "Area of Review,"
21 correct?

22 A. That's correct.

23 Q. All right. And the first thing that we
24 see under that tab in Exhibit 1 is a large map
25 that's currently in a sleeve.

1 Is that map also duplicated for ease of
2 the commission in Slide 16 of Exhibit 7?

3 A. Yes, it is.

4 Q. So they can either look -- take out the
5 big map or we can look at Slide 16?

6 A. That's correct.

7 Q. All right. Beyond that, then, how is
8 this -- the remaining portion of this area of review
9 organized? Can you just walk us through it real
10 quick?

11 A. Sure. After the review map I've included
12 an 11-by-17 paper, and that is a flow chart of the
13 way I grouped the area of review.

14 And if you'll see at the bottom there are
15 boxes that say group one, group two, all the way
16 through group nine. It explains what is in each
17 group.

18 So after that 11-by-17 page you'll see
19 tabs corresponding to each one of the groups. So
20 group one all the way through group nine.

21 Q. And then under group nine you have
22 broken -- group nine deals with what?

23 A. Group nine are the P&A wells. And they
24 have -- they are each grouped by the section that
25 they are in, and they are the diagrams of the P&A'd

1 wellbores.

2 Q. Ms. Montgomery, it took a lot of effort to
3 put all of this together?

4 A. Yes. We took about a year to pull all of
5 this information together, going through the NMOCD
6 online files, to pull our information.

7 Q. And did you -- I guess you reviewed this
8 number a few times, correct?

9 A. That's correct.

10 Q. Okay. And in preparation for this hearing
11 here today, you actually went through and reviewed
12 it all again?

13 A. I did.

14 Q. Okay. And in that final review did you
15 find that there was a mistake in one of the wellbore
16 diagrams under the tab group nine?

17 A. I did.

18 Q. Okay. And where would that exist?

19 A. Okay. If you go to group nine, your P&A
20 wells under Sections 21 through 29, I believe it's
21 the fourth one -- well, actually, on mine, it's the
22 third page. This wellbore diagram has been
23 corrected.

24 Q. Is it the third page or the fourth page?

25 A. Well, in mine it's the third. It's API

1 30-025-07392.

2 Q. Okay. You noticed a mistake in that
3 diagram?

4 A. Yes. The top of cement, that was
5 calculated incor- -- or drawn -- depicted
6 incorrectly.

7 Q. Okay. And while everybody is there, do we
8 have a substitute diagram that we can provide to the
9 commission?

10 A. Yes.

11 MR. FELDEWERT: If I may approach,
12 Commissioner Bailey, to make that substitution?

13 MADAM CHAIR BAILEY: Yes. Go ahead.

14 Q. (By Mr. Feldewert) Okay. Now having made
15 that substitution, do the diagrams that you have
16 provided to the commission accurately reflect the
17 condition of the wellbores within the area of
18 review?

19 A. Yes, they do.

20 Q. Okay. All right.

21 So let's go back, and let's start, then,
22 the discussion with your area of review map, which
23 is shown on Slide 16 of Exhibit 7.

24 Can you explain to the commissioners what
25 all of the colors mean?

1 (Discussion off the record.)

2 Q. (By Mr. Feldewert) And what's the API
3 number, just for the record?

4 A. 07392. Is that correct? Yes.

5 Q. Okay. Ma'am, would you explain to the
6 commissioners your area of review map, all the
7 colors and what it shows here?

8 A. Okay. What you're looking at here is a --
9 shaded in yellow is an outline of the North Hobbs
10 Unit project area. So this blue dotted line is
11 actually the North Hobbs Unit. So there's a portion
12 of the North Hobbs Unit right in here that's not
13 included in the project area.

14 Q. Now, that project area includes the
15 existing Phase I as well as the expanded area?

16 A. That's correct.

17 Q. Okay.

18 A. The small blue dots that are hard -- on
19 here -- are all of the North Hobbs Unit wells.

20 These pink dots here are wells that are
21 part of our South Hobbs Unit.

22 This red line here is a half mile outside
23 the North Hobbs Unit expansion project area.

24 So every well inside this red area was
25 included in our area of review.

1 Q. Okay. So that would include North Hobbs
2 Unit wells within that red line area, correct?

3 A. That's correct.

4 Q. It would include, in fact, because of the
5 half-mile area of review, South Hobbs Unit wells?

6 A. Yes, it does.

7 Q. Some South Hobbs Unit wells?

8 A. Yes.

9 Q. And it included a few wells that, because
10 of the half-mile nature, would be actually outside
11 the North Hobbs Unit?

12 A. There are a few of those as well, yes.

13 Q. Okay. Had a number of these wells already
14 been reviewed previously by the division or the
15 commission in connection with prior expansion
16 approvals?

17 A. Yes. Actually, the majority of the wells
18 have already been reviewed.

19 Q. And that would have been, for example,
20 under the 2003 -- 2001 North Hobbs Unit order?

21 A. Yes.

22 Q. And then additional injection well
23 approvals for the North Hobbs Unit?

24 A. That is correct.

25 Q. And then last year, of course, for the

1 South Hobbs Unit order?

2 A. Yes. That's correct.

3 Q. How many wells, in total, are within this
4 area of review?

5 A. There's a total of 699 wells.

6 Q. What was the source data for your -- for
7 your review of these wells?

8 A. We used the online NMOCD web flow files to
9 pull our information.

10 Q. And did you employ individuals to assist
11 you in an audit of these wells?

12 A. Yes, we did. We employed two consultants.
13 Mr. David Catanach and Mr. Ben Stone assisted in
14 helping to pull the information and analyze it with
15 us.

16 Q. And you worked with them in putting this
17 together?

18 A. Yes, I did.

19 Q. Okay. Given that you had 699 wells, you
20 came up with a mechanism to group them, correct, for
21 discussion?

22 A. Yes, I did.

23 Q. And if we turn to Slide 17 -- and I think
24 you discussed this briefly earlier. This reflects
25 your effort to group these 699 wells into nine

1 separate groups for analysis purposes?

2 A. Yes.

3 Q. Okay. All right. And if it's easier to
4 read, there's a larger version of this in Exhibit
5 Number 1 under -- just past -- under the tab that
6 says "Area Review." And just past the big map
7 there's that pullout that identifies nine groups.

8 Correct, Ms. Montgomery?

9 A. That's correct.

10 Q. Then why don't you turn to the first group
11 and explain what you did with respect to that
12 particular group.

13 A. Okay. Group one is the largest group of
14 wells. There's 522 in this group. These are wells
15 that had been previously reviewed by the NMOCD in
16 filings by Oxy that have had no change in their well
17 status.

18 Q. Okay. So then if I go to the tab in
19 Exhibit 1 that says group one --

20 A. Yes.

21 Q. -- does that identify -- the first page,
22 does it identify the proceedings under which these
23 wells, this 522 wells, would have been previously
24 reviewed by the division?

25 A. Yes, it does.

1 Q. And what is, then, set forth in the
2 remainder of the pages under tab group one in
3 these -- Oxy's exhibit book?

4 A. After that is a listing of each of the 522
5 wells, their well name, API number, and their
6 location and status.

7 Q. And did you and your audit team confirm
8 that there had been no change in the status of these
9 wells since the previous review by the division or
10 the commission?

11 A. Yes, we did.

12 Q. Then the second group of wells is
13 comprised of what?

14 A. The second group contains 52 wells. And
15 this is wells that had been previously submitted and
16 reviewed by the NMOCD. However, these did have a
17 change in status, so we listed those in group two.

18 Q. So if I go under the tab in Oxy's Exhibit
19 Number 1 that says group two, there's a pullout
20 there.

21 Does that list these 22 wells?

22 A. 52.

23 Q. I'm sorry. 52 wells?

24 A. Yes.

25 Q. And where do we find the change in status?

1 A. In two places. In kind of the middle of
2 the spreadsheet there's a previous well type and
3 status, and then there's a current well type and
4 status.

5 And then the last column of the
6 spreadsheet details out what the changes were since
7 it was previously reviewed.

8 I can see in the majority of the cases
9 they are now TA since the previous review.

10 Q. And in your opinion, Ms. Montgomery,
11 having reviewed this information, did any of these
12 changes affect the integrity of the wells previously
13 reviewed by the division or the commission?

14 A. No, they did not.

15 Q. Okay. Then what do we have, then, in the
16 remaining groups? I guess we'll go three through
17 eight.

18 A. Okay. Groups three through eight are
19 wells that we reviewed that have not -- have not
20 been previously reviewed by the division or
21 commission, and we've included them here.

22 I categorized them similarly to the -- as
23 I did in the South Hobbs Unit, by their well
24 construction, so that we could get it in more
25 manageable chunks.

1 Q. Okay. So let's go to an example, first
2 off in the notebook itself, Oxy Exhibit Number 1
3 under group three.

4 We show a schematic for 40 wells.

5 Is that right?

6 A. Yes. That's correct.

7 Q. Okay. Walk us through this schematic for
8 group three.

9 A. Okay. This is group three,
10 Grayburg-San Andres wells with surface and
11 production casing. There are 40 wells in this
12 group.

13 The black casing is your surface casing.
14 I've got a solid line for the shallowest surface
15 casing, which is set at 1,467. And I have a dotted
16 line down to where the deepest surface casing is set
17 at 1,655.

18 So in all 40 of these wells you have
19 surface casing set between those two depths.

20 You also have cement. They are all
21 cemented to surface.

22 The red is your production casing. I've
23 done something similarly there. The shallowest is
24 set at 4,304, which is the solid line.

25 I have a dotted line to the deepest at

1 5,161, which is a measured depth.

2 And the dotted line will show that there's
3 casing set of the 40 wells in between those.

4 The cement behind pipe on all of these,
5 the top cement ranges from the deepest to 1,021 to
6 surface. So...

7 Q. And then behind this schematic would be
8 the actual data on each of the wells that are within
9 your group three?

10 A. Yes. That is correct.

11 Q. And did you do a similar analysis, then,
12 for your remaining groups three through eight?

13 A. Yes, I did.

14 Q. And provide, first, a schematic
15 representative of those wells and then the actual
16 data for the wells behind them?

17 A. Yes. That's correct.

18 Q. Okay. And then when it came to group
19 nine, which is your P&A'd wells, and looking at
20 Exhibit 1 under that tab, how does that differ from
21 what you previously did?

22 A. The P&A wells all have an individual
23 wellbore diagram associated with them. So they have
24 tabular data shown on the 11-by-17 sheet. And then
25 each of -- then there's several of the P&A'd wells,

1 and they are organized by section number.

2 Q. Okay. Did you review all of this
3 information with the division's engineering bureau?

4 A. Yes, I did.

5 Q. And that would comprise your numerous
6 meetings and telephone calls?

7 A. Yes. That is correct.

8 Q. And what conclusions did you reach after
9 having met with the division about this information?

10 A. That the area of review, the wells that --
11 in our area of review were protective of -- we would
12 not have migration into the freshwater, and you
13 would confine in the injectant.

14 Q. Okay. So no problem wells were found?

15 A. We didn't have any problem wells that we
16 found.

17 Q. Okay. I want to go over one thing,
18 Ms. Montgomery.

19 If I go back to Oxy Exhibit Number 2 in
20 the exhibit book, that's the Order 6199-B for the
21 North Hobbs Unit, correct?

22 A. That is correct.

23 Q. And if I go to that order that was entered
24 in 2001 and I look at page 10 of that order, there's
25 a discussion in paragraphs 7 and 8 about the

1 extensive review that was done at that time, and as
2 a result of that they had found two wells that
3 needed some remedial work.

4 Do you recall reading this?

5 A. Yes, I do.

6 Q. Okay. As part of your audit in this case,
7 did you go back and ensure that the work that had
8 been requested in paragraphs 7 and 8 had been done?

9 A. Yes, I did.

10 Q. And has that work -- was that work
11 completed prior to injection commencing around those
12 wells?

13 A. Yes, it was.

14 Q. Okay. In your opinion, are the wells
15 within the area of review sufficiently cased or
16 cemented to prevent migration of injected fluids out
17 of the proposed injection interval?

18 A. Yes, they are.

19 Q. And do any of these wells present an
20 unreasonable threat to groundwater or the
21 environment if the Phase I area in the North Hobbs
22 Unit is expanded as proposed by Oxy?

23 A. No, they don't.

24 Q. Okay. I want to turn now to another
25 topic, and that is the issue of updating this area

1 of review analysis.

2 If I go to Slide 19, the current division
3 order governing the Phase I area provides a
4 three-year grace period for this area of review
5 analysis for future injection wells -- or did
6 provide, correct?

7 A. Correct.

8 Q. All right. Does Oxy request that this --
9 because of the effort that went into this -- that
10 this grace period be extended to five years?

11 A. Yes, we do.

12 Q. Okay. And you're talking about this grace
13 period for wells that -- in which injection does not
14 commence until more than five years from now?

15 A. Yes. That is correct.

16 Q. And if I look at Oxy Exhibit Number 3,
17 which is the South Hobbs Unit, and I go to page 11
18 and I look at the bottom of page 11, paragraph 5 for
19 the South Hobbs Unit, does that provide what I
20 called a five-year grace period for the area review
21 analysis?

22 A. Yes, it does.

23 Q. And does Oxy request that that same grace
24 period be provided for your North Hobbs area of
25 review given the time and effort that went into

1 this?

2 A. Yes, we do.

3 Q. And in your opinion, having analyzed this
4 data and recognizing that it's been reviewed a
5 number of times, is that request going to pose an
6 unreasonable risk to the public health or the
7 environment?

8 A. No, I don't think it will.

9 Q. Okay. While we are on Exhibit Number 3, I
10 want you to look at page 12.

11 And I'm looking at paragraph 13 at the
12 bottom.

13 A. Okay.

14 Q. It deals with cement.

15 A. Yes.

16 Q. Have you reviewed that provision?

17 A. Yes, I have.

18 Q. Do you request similar relief for the
19 North Hobbs Unit?

20 A. Yes, we do.

21 Q. Okay. And if you look at paragraph 15 on
22 the next page of this order, on page 13, paragraph
23 15 --

24 A. Uh-huh.

25 Q. -- is the company going to conduct a

1 mechanical integrity test on all injection wells at
2 least once every two years?

3 A. Yes, we will.

4 Q. Okay. In your opinion, would the granting
5 of Oxy's application be in the best interest of
6 conservation, the prevention of waste, and the
7 protection of correlative rights?

8 A. Yes, it will.

9 Q. And in your opinion, will the relief that
10 has been requested by Oxy's application pose an
11 unreasonable risk to the public health or the
12 environment?

13 A. No, it will not.

14 Q. Were the 19 slides comprising Oxy's
15 Exhibit Number 7 compiled by you or under your
16 direction and supervision?

17 A. Yes, they were.

18 MR. FELDEWERT: Madam Chair, I would move
19 the admission into evidence of Oxy's Exhibit 7.

20 MADAM CHAIR BAILEY: It is accepted.

21 MR. FELDEWERT: That concludes my
22 examination of this witness.

23 MADAM CHAIR BAILEY: Commissioner Warnell,
24 do you have any questions?

25

1 COMMISSIONER WARNELL: Ms. Montgomery, a
2 good presentation.

3 THE WITNESS: Thank you.

4 COMMISSIONER WARNELL: Undoubtedly, a
5 tremendous amount of work and effort has gone into
6 that. I appreciate it.

7 One flag that was raised, and I don't know
8 why. Maybe you can help me out here.

9 On one of your slides you showed that the
10 52 wells that were P&A'd.

11 THE WITNESS: 52 wells. Is that -- let me
12 just make sure I have that.

13 Is that the group -- I guess that's right.
14 The group two wells that have changed status?

15 COMMISSIONER WARNELL: Yes, the status
16 change.

17 THE WITNESS: Yes, sir.

18 COMMISSIONER WARNELL: So they had gone --
19 they had almost all exclusively -- I think there was
20 one well out of those 52 that was maybe an
21 injection -- saltwater injection well, and all the
22 rest had gone to P&A?

23 THE WITNESS: Yes, sir.

24 COMMISSIONER WARNELL: What's in the
25 future for those 51 P&A'd wells?

1 A. I don't know that I can address each one
2 specifically. But I know in Mr. Brockman's
3 presentation, as we expand this -- this flood,
4 that's part of -- a lot of the wells on the
5 outskirts were P&A'd. And so the hope is to utilize
6 these wellbores again as we expand our flood with
7 this Phase I extension.

8 COMMISSIONER WARNELL: I thought that was
9 the case.

10 THE WITNESS: Yeah.

11 COMMISSIONER WARNELL: That's all I've
12 got. Thank you.

13 MADAM CHAIR BAILEY: Commissioner Balch?

14 COMMISSIONER BALCH: On the 22 wells that
15 we first discussed, they don't have cement,
16 necessarily, all the way to the surface?

17 THE WITNESS: Right.

18 COMMISSIONER BALCH: It looks like the
19 majority of those are going to cover your primary
20 seal intervals except for the one where you're going
21 to do a squeeze job, and that will be checked off on
22 our log, and that will be available to the division?

23 THE WITNESS: Absolutely.

24 COMMISSIONER BALCH: The other wells where
25 you -- where you don't necessarily have cement

1 behind all of your pipe all the way up --

2 THE WITNESS: Uh-huh.

3 COMMISSIONER BALCH: -- those are going to
4 be very dependent upon the integrity of the packer
5 and the production or injection tubing and the --
6 and the measurement of the -- and the continuous
7 measurement of the pressure in the annular space?

8 THE WITNESS: All of them will have
9 that -- will be equipped with that, yes.

10 COMMISSIONER BALCH: Okay. In the group
11 three wells that you have listed, there's only two
12 of those that were cemented to surface. Those are
13 both active producers.

14 THE WITNESS: Okay.

15 COMMISSIONER BALCH: Is there a reason why
16 they were -- I mean, you could have had that whole
17 group cemented to surface except for those two
18 wells.

19 Are those two going to be switched to
20 injection at some point? It didn't look like it
21 from the data sheet.

22 THE WITNESS: Let me make sure I'm
23 correct.

24 Is this in the area of review under --

25 COMMISSIONER BALCH: This is group three.

1 THE WITNESS: Group three?

2 These are wells that are just within the
3 area of review. So none of these --

4 COMMISSIONER BALCH: Oh, these are not
5 your wells, right.

6 THE WITNESS: These are not the proposed
7 injectors. So I mean, I -- we just tried to
8 categorize them as they -- as they were and show
9 that they were protective and could confine the
10 injectant.

11 COMMISSIONER BALCH: All right. But those
12 two wells won't have your pressure monitoring of the
13 annular space?

14 THE WITNESS: Can you point out which two
15 wells they are? Are they North Hobbs Unit wells?

16 COMMISSIONER BALCH: The two wells I was
17 looking at were -- the cement top.

18 THE WITNESS: Oh, I could probably find it
19 quickly right here.

20 COMMISSIONER BALCH: It's the cement top.
21 It's North Hobbs.

22 THE WITNESS: Okay. 40822 is the first
23 one, cement top at 979?

24 COMMISSIONER BALCH: That's right.

25 THE WITNESS: Okay.

1 COMMISSIONER BALCH: And the other one is
2 on the next page near the top, the cement top at
3 1,021.

4 THE WITNESS: All right.

5 Both of those are -- both of those are
6 producers. Let me check this one.

7 Yes. Both of those are producers.

8 COMMISSIONER BALCH: And they are both Oxy
9 wells?

10 THE WITNESS: And they are both Oxy wells.

11 As Mr. Hodges testified, showing our
12 producing wells that have the ESP, we also have
13 monitors on the tubing and the annular space on
14 those producers.

15 COMMISSIONER BALCH: Even wells that are
16 not involved in your -- directly involved in your
17 North Hobbs Unit or North Hobbs expansion, but are
18 adjacent to?

19 Because these are area of review wells,
20 right?

21 THE WITNESS: These are area of review
22 wells. That's why I wanted to see if they were our
23 North Hobbs Unit wells. So they're within the unit.

24 I guess I probably shouldn't speak to
25 those specifically. I do know that we have -- we do

1 monitor our production wells as well, though,
2 especially if they have ESPs on them, so that, you
3 know, we know what the annular pressure and the
4 tubing pressure is on those.

5 But back to your original question, we
6 won't go back and try to squeeze these to put cement
7 to surface.

8 COMMISSIONER BALCH: Right. I guess my
9 concern was there may not necessarily be a mechanism
10 in place to observe that those wellbores failed.

11 THE WITNESS: I believe there is, but I --
12 we can always recall Mr. Hodges to confirm that on
13 these wells if we need to. But...

14 COMMISSIONER BALCH: Okay. Thank you.

15 MADAM CHAIR BAILEY: Let's make it easy
16 for the lawyers.

17 The C-108 application, Section 7,
18 Number 3, asks for proposed average and maximum
19 injection pressure.

20 Could you point to where that is in C-108
21 so that they can cross-reference for the board?

22 THE WITNESS: Sure. Okay. Let me find
23 that. And then I'll...

24 I actually don't see it. The intent is
25 for the injection pressures to remain the same as

1 they currently are in the North Hobbs Unit and in
2 the South Hobbs Unit.

3 So I believe that it would -- I don't -- I
4 don't actually see here, but that is what we --
5 that's what we are asking for. I'm surprised it is
6 not right here.

7 MADAM CHAIR BAILEY: I was looking for it,
8 and I didn't see it there in C-108.

9 THE WITNESS: I don't see it. But the
10 intent is that that's what it should be. That's
11 what we would be asking for. It would be that -- no
12 change in injection pressure that is currently in
13 the Phase I area.

14 MADAM CHAIR BAILEY: Okay.

15 That's all I have.

16 Do you have any other questions?

17 FURTHER EXAMINATION

18 BY MR. FELDEWERT:

19 Q. So, Ms. Montgomery, if we look at Oxy
20 Exhibit Number 2 -- and I'll look at page 9, so that
21 would be the Order 6199-B.

22 A. Yes.

23 Q. Page 9, paragraph 4.

24 A. Yes.

25 Q. You don't seek any change in those?

1 A. We don't seek any change from what is
2 currently in the order, correct.

3 Q. Have you previously checked to make sure
4 that those are the same approved -- let me --
5 injection pressure limits as are in the South Hobbs
6 Unit?

7 A. Yes, they are.

8 Q. Okay. So it would all be the same.

9 A. That is correct.

10 Q. Okay.

11 MR. FELDEWERT: That's all the questions I
12 have.

13 MADAM CHAIR BAILEY: Thank you. You may
14 be excused.

15 THE WITNESS: Thank you.

16 MR. FELDEWERT: Madam Chair, with your
17 permission we'll call our last witness.

18 MADAM CHAIR BAILEY: You may.

19 PATRICK SPARKS,

20 after having been first duly sworn under oath,

21 was questioned and testified as follows:

22 EXAMINATION

23 BY MR. FELDEWERT:

24 Q. Would you please state your name, identify
25 by whom you are employed, and in what capacity?

1 A. My name is Pat Sparks. I'm employed by
2 Oxy as a landman.

3 Q. And, Mr. Sparks, how long have you been a
4 landman with Oxy?

5 A. A little over 30 years.

6 Q. How long have you been involved in the
7 Permian Basin?

8 A. 22 to 23 years.

9 Q. Now, you've testified previously before
10 the commission in connection with the application
11 for the order converting South Hobbs Unit to a
12 tertiary recovery project?

13 A. Yes, sir.

14 Q. Have you also had the opportunity to
15 testify before both the division and the commission
16 on other matters over the years?

17 A. Yes, sir.

18 Q. And were your credentials as an expert in
19 petroleum land matters accepted and made a matter of
20 record?

21 A. Yes, sir.

22 Q. Are you familiar with Oxy's application in
23 this case?

24 A. Yes, sir.

25 Q. And did you conduct a study of the lands

1 that were affected?

2 A. Yes, sir.

3 Q. And finally, were you responsible,
4 Mr. Sparks, for coordinating and compiling a notice
5 list for all of the -- the parties affected by this
6 application?

7 A. Yes, sir.

8 MR. FELDEWERT: Madam Chair, I would
9 re-tender Mr. Sparks as an expert witness in
10 petroleum land matters.

11 MADAM CHAIR BAILEY: He's accepted.

12 Q. (By Mr. Feldewert) Mr. Sparks, are there
13 federal or state lands involved in the proposed
14 expansion area?

15 A. Yes, sir, there are. As a matter of fact,
16 the North Hobbs Unit is comprised of 45 percent
17 state lands.

18 Q. And as a result, is the New Mexico State
19 land office the largest royalty owner out there?

20 A. By a long shot.

21 Q. Okay. And did you discuss this
22 application with the BLM?

23 A. Yes, sir.

24 Q. And did you discuss this application with
25 the New Mexico State land office?

1 A. Yes, sir.

2 Q. Looking at Oxy Exhibit Number 8, does this
3 identify the noticed areas for your proposed
4 expansion of the Phase I?

5 A. Yes, sir.

6 Q. Now first off, in Oxy Exhibit Number 8, we
7 have a one-page version that is marked page 1. And
8 then behind that there's a map in a sleeve.

9 Is that correct?

10 A. That's correct.

11 Q. Is the map in the sleeve the same as that
12 which is depicted on the first page of Exhibit 8?

13 A. Yes, sir. It's just to a larger scale.

14 Q. Okay. Would you -- using this Exhibit 8,
15 would you please identify for the commission the
16 areas that you analyzed for purposes of coming up
17 with your notice list?

18 A. Okay. The solid green line is the unit
19 boundaries for the North Hobbs Unit.

20 The solid green color is the Phase I
21 expansion area.

22 The hatched areas on the outside are the
23 half-a-mile notice area that we did the research on.

24 Q. Did you -- you said you put together a
25 team to determine the ownership in this area?

1 A. Yes, sir.

2 Q. How many people were involved?

3 A. I had -- in addition to the people
4 periodically in house, we had two fieldworkers in
5 the field for four and a half to five months.

6 Q. Okay. And as a result, were they -- you
7 were able to identify, first off, the North Hobbs
8 Unit interest owners, correct?

9 A. Yes, sir.

10 Q. And then the South Hobbs Unit owners,
11 because your hatched area extended into the South
12 Hobbs Unit, right?

13 A. Correct.

14 Q. Okay. And then were you able to identify
15 all the tracts in the hatched blue area around your
16 proposed expansion area?

17 A. Yes, sir.

18 Q. And within those tracts did you identify
19 the operators or lessees of record?

20 A. Correct.

21 Q. And if it was undeveloped, did you
22 determine the mineral owners?

23 A. That is correct.

24 Q. And then finally, with respect to your
25 proposed injection wells, did you identify the

1 owners of the surface estate, first for the
2 quarter-quarter sections where you intend to utilize
3 injection wells?

4 A. That's correct.

5 Q. And then also for the owners of the
6 surface estate, where the company was able to
7 identify the proposed injection wells by API number?

8 A. That's correct.

9 Q. Okay. If I go to Oxy Exhibit Number 9,
10 does this depict the surface locations for all of
11 the proposed injection wells?

12 A. That's correct.

13 Q. And it corresponds with Exhibits A and B
14 to the application?

15 A. That's correct.

16 Q. And again, behind this first page of
17 Exhibit Number 9 would be a much larger map showing
18 the same thing as depicted in the first page?

19 A. That's correct.

20 Q. All right.

21 If I then go to Oxy Exhibit Number 10, is
22 this a list, Mr. Sparks, of the North Hobbs Unit
23 working interest owners that you were able to
24 identify from your company records?

25 A. That's correct.

1 Q. Then if I go to Exhibit Number 11, is this
2 a list of the South Hobbs Unit working interest
3 owners?

4 A. That is correct.

5 Q. And then if I go to Exhibit Number 12, is
6 this a list of the affected operators, lessees, or
7 mineral owners in the blue hatched area shown on Oxy
8 Exhibit Number 8?

9 A. Yes, sir, it is.

10 Q. And finally, is Oxy Exhibit Number 13 a
11 list of all the surface owners?

12 A. That is correct.

13 Q. Okay. And if I turn to Exhibit Number 14,
14 is this an affidavit prepared by my office with the
15 attached letter providing notice of this hearing to
16 all of the parties listed in Exhibits 10, 11, 12,
17 and 13 for whom we had an address?

18 A. That's correct.

19 Q. Now, what efforts were undertaken to
20 locate an address for all of the parties that are
21 listed in Oxy Exhibits 10, 11, 12, and 13?

22 A. First of all, we used County records in
23 Lea County. We used the local abstract plats in Lea
24 County. We used the tax roles in Lea County.

25 We also used our internal records. Since

1 we operate both of these units, chances are some of
2 those people were in our system as a royalty owner
3 under one of the units, so we found some of them
4 there.

5 We did internet searches, and then any
6 personal knowledge that we had of any of the people.

7 And there were just some that aren't --
8 have not had any activity on those tracts since the
9 1930s.

10 Q. Now with that in mind, if I go to Exhibit
11 Number 15 -- and I want to skip the first page for
12 now and go to the second page.

13 Does that provide -- the
14 second-to-the-third page of that exhibit, does that
15 provide a list of the entities or individuals within
16 your area of notice that you just simply could not
17 find an address for?

18 A. That's correct.

19 Q. Okay. And finally, Mr. Sparks, for the
20 parties that we were able to find an address on, we
21 sent out the letter and kept the return receipts.

22 Is that correct?

23 A. That's correct.

24 Q. Okay. And is that contained within this
25 Redwell binder that we put together as Oxy

1 Exhibit 16 --

2 A. That's correct.

3 Q. -- and the returned green cards?

4 MR. FELDEWERT: Madam Chair, I only have
5 one copy because it's voluminous. I didn't want to
6 burden your notebooks with this information.

7 With your permission, we would like to put
8 this one copy of Exhibit 16 into the record.

9 MADAM CHAIR BAILEY: That's fine, thank
10 you.

11 Q. (By Mr. Feldewert) And then finally,
12 Mr. Sparks, were Oxy Exhibits 8 through 16 compiled
13 by you or under your direction and supervision?

14 A. Yes, sir.

15 MR. FELDEWERT: In that case, Madam Chair,
16 I would move the admission into evidence of Oxy
17 Exhibits 8 through 15. I think we've already
18 admitted 16.

19 MADAM CHAIR BAILEY: They are admitted.

20 MR. FELDEWERT: That concludes my
21 examination of this witness.

22 I do have one issue I need to raise with
23 the commission concerning this notice when you are
24 finished with your questioning.

25 MADAM CHAIR BAILEY: Commissioner Balch?

1 COMMISSIONER BALCH: I have no questions.

2 MADAM CHAIR BAILEY: Mr. Warnell?

3 COMMISSIONER WARNELL: I have no
4 questions.

5 MADAM CHAIR BAILEY: And I have no
6 questions.

7 MR. FELDEWERT: Then, Madam Chair, the
8 only thing I have left is, if you will look at
9 Exhibit Number 15, you'll see that there is an
10 affidavit of publication on the first page of our
11 Exhibit Number 15.

12 The second and the third page is comprised
13 of a document that we sent to the Lovington Leader
14 for purposes of having it published in the
15 newspaper, in the County newspaper, for purposes of
16 this hearing.

17 When we asked for the affidavit of
18 publication back from them we got it -- I think it
19 was the day before yesterday.

20 We noticed that -- you'll see that the
21 affidavit of publication that they sent to us was --
22 it appears to be the notice that the commission sent
23 to the newspaper for purposes of publication and did
24 not include the list of names that we had sent to
25 them, comprised of the pages 2 and 3.

1 When we called them, we were informed that
2 they were confused and thought that they only needed
3 to publish the one that was sent by the commission;
4 and, therefore, did not publish the one we had sent
5 to them.

6 The rules on this are somewhat vague, in
7 terms of whether you actually have to list the
8 parties in your -- in your notice.

9 But I visited with the company. We would
10 like to be able to get this list published in the
11 newspaper. We can accomplish that by the next
12 commission meeting. And with your permission I
13 would like to come back at that time and present an
14 affidavit of publication which would be in the form
15 reflected on the second and the third pages of our
16 Exhibit 15.

17 MADAM CHAIR BAILEY: Could we just send it
18 in as part of the record and not have to wait until
19 the next commission hearing to present it?

20 MR. BRANCARD: We can leave the record
21 open and allow submittal with an affidavit of
22 publication from the -- has the notice already been
23 sent to the paper?

24 MR. FELDEWERT: We are in the process --
25 well, they have it, and they indicated to us that

1 they would publish it as soon as possible. But
2 obviously, that didn't cure the issue that we have
3 for this particular hearing.

4 It will cure it and be published in time
5 for the next commission docket.

6 MR. BRANCARD: Okay. But the notice talks
7 about a hearing today.

8 MR. FELDEWERT: Yes.

9 MR. BRANCARD: And gives a deadline two
10 days ago to respond.

11 I mean, effectively, we are leaving the
12 record open if any of these people appear, that they
13 can make an appearance between now and I guess the
14 next -- whenever you want to give it -- 30 days from
15 now?

16 MADAM CHAIR BAILEY: Yes.

17 MR. BRANCARD: So perhaps we need to
18 rephrase the notice to say that a hearing was held,
19 but the record is open until 30 days from now.

20 MR. FELDEWERT: We certainly can do that.

21 MR. BRANCARD: By the way, you had the
22 wrong time for the hearing on the notice. We didn't
23 start at 8:15 this morning.

24 MR. FELDEWERT: We'll correct that.

25 So, Madam Chair, with your permission,

1 that -- with that one minor issue, that concludes
2 our presentation.

3 MADAM CHAIR BAILEY: You don't have any
4 final comments?

5 MR. FELDEWERT: No. I certainly can
6 answer whatever questions you may have, but -- and
7 if there's any confusion about the relief that we
8 seek, but I don't have anything further to provide
9 to the commission.

10 MADAM CHAIR BAILEY: Okay.
11 Then we will take it under advisement.
12 Commissioners do you want to go into
13 closed hearing to debate on this case?

14 COMMISSIONER BALCH: If it's possible, I
15 would like to ask Mr. Hodges another question, just
16 on my cross-examination.

17 MADAM CHAIR BAILEY: You would like to
18 recall Mr. Hodges?

19 COMMISSIONER BALCH: Yes.

20 MADAM CHAIR BAILEY: You are still under
21 oath, Mr. Hodges.

22 THE WITNESS: Yes, ma'am.

23

24

25

1 SCOTT HODGES,

2 after having been first duly sworn under oath,
3 was questioned and testified as follows:

4 COMMISSIONER BALCH: I'm sorry to make you
5 work after lunch.

6 THE WITNESS: That's okay.

7 COMMISSIONER BALCH: So I just want to
8 clear up some confusion I may have with group three.
9 Those are wells that are in the area of
10 review, but not in the North Hobbs CO2 expansion,
11 right?

12 THE WITNESS: Right.

13 COMMISSIONER BALCH: And there were two
14 wells in there that didn't have cement all the way
15 to surface in at least one of the casing strings.

16 They both appear to be operated by Oxy,
17 and they are production wells. They'll probably
18 remain production wells going into the future.

19 So in your presentation, you showed us
20 that similar wells inside the operating unit would
21 have active measuring of pressure, so you know if
22 there's a failure in the wellbore.

23 THE WITNESS: That is correct.

24 COMMISSIONER BALCH: Wells that are in the
25 area of review that are operated by Oxy, is that

1 also the case?

2 THE WITNESS: That's not our plan right
3 now. We feel like that if we had a breach of that
4 casing that we could pick that up on a Bradenhead
5 survey.

6 COMMISSIONER BALCH: Okay.

7 THE WITNESS: So if we did breach that
8 casing, we would have pressure on that Bradenhead,
9 and that would be an indication of that.

10 COMMISSIONER BALCH: That's my only
11 question.

12 MADAM CHAIR BAILEY: Okay.

13 MR. FELDEWERT: Can I ask one question,
14 ma'am?

15 MADAM CHAIR BAILEY: If you would like
16 some followup on that?

17 MR. FELDEWERT: Please.

18 FURTHER EXAMINATION

19 BY MR. FELDEWERT:

20 Q. Mr. Hodges, if the wells in group three,
21 okay, are within the Phase I area of the North Hobbs
22 Unit, and if they are currently producing wells, do
23 they have the pressure monitors that you previously
24 discussed?

25 A. Not -- the Phase I, not the expanded

1 Phase I?

2 Q. Not the expanded, but within the Phase I
3 area. If they are currently producing wells within
4 the Phase I area, do they have the pressure monitors
5 that you previously discussed with the commission?

6 A. They have casing annulus pressure
7 monitors.

8 Q. Okay.

9 A. Yes.

10 Q. Okay. So all of your producing wells have
11 that -- those monitoring devices.

12 A. That's correct.

13 Q. If they're within the Phase I area?

14 A. Right.

15 MR. FELDEWERT: That's all.

16 MADAM CHAIR BAILEY: Satisfied?

17 COMMISSIONER BALCH: Satisfied.

18 MADAM CHAIR BAILEY: Then you may be
19 excused.

20 THE WITNESS: Thank you.

21 MADAM CHAIR BAILEY: Commissioners, would
22 you like to have a motion to go into closed session
23 in accordance with New Mexico Statute 10-15-1, and
24 the OCC resolution to open meetings?

25 COMMISSIONER BALCH: I'll make that

1 motion.

2 COMMISSIONER WARNELL: I second that

3 motion.

4 MADAM CHAIR BAILEY: All those in favor?

5 COMMISSIONER BALCH: Aye.

6 COMMISSIONER WARNELL: Aye.

7 MADAM CHAIR BAILEY: Aye.

8 If you could leave, we will debate the
9 case, and we will come back into session shortly.

10 (A recess was taken from 2:11 p.m. to 2:37
11 p.m.)

12 MADAM CHAIR BAILEY: We will go back on
13 the record.

14 Do I hear a motion to come back on the
15 record?

16 COMMISSIONER BALCH: I'll make a motion to
17 come back on the record.

18 COMMISSIONER WARNELL: I'll second that
19 motion.

20 MADAM CHAIR BAILEY: All those in favor?

21 COMMISSIONER BALCH: Aye.

22 COMMISSIONER WARNELL: Aye.

23 MADAM CHAIR BAILEY: Aye.

24 The only thing that was discussed was this
25 case.

1 And, Bill, would you explain what our
2 decisions were contingent on, with the assumption
3 that there will not be any response from the later
4 notice?

5 MR. BRANCARD: Thank you, Madam Chair.
6 Yes.

7 Contingent on no additional entries into
8 the record, the commission proposes to approve the
9 application of Occidental Permian, Limited, to amend
10 Order R-6199 to expand the North Hobbs
11 Grayburg-San Andres Unit Phase I tertiary recovery
12 project.

13 The commission approves the expanded area
14 for tertiary recovery listed in the application.

15 The commission approves the injection for
16 the wells listed in the application.

17 The commission will certify the enhanced
18 oil recovery pro- -- as a tertiary project under the
19 Enhanced Oil Recovery Act.

20 This approval is subject to the following
21 conditions:

22 The conditions that are listed for the
23 South Hobbs Unit in Order R-4934-F are repeated
24 here, except for conditions relating to specific
25 wells in that unit.

1 In addition to those conditions the
2 commission requires the proposal to place additional
3 cement in well 30-025-07545 and a cement bond log
4 for that cement project.

5 The commission also will approve the
6 allowance of greater than four wells in a
7 quarter-quarter section, and states that Rule
8 15.9(A) applies to tertiary as well as secondary
9 projects.

10 The commission also will allow variance
11 from the unorthodox well location limitation in Rule
12 15.13(A), that -- the limitation that does not allow
13 a well within 10 feet of a quarter-quarter line.

14 Did I catch all of the conditions?

15 This approval is subject to the commission
16 record remaining open for a period of 30 days after
17 the publication of the notice that has not been
18 repeated yet by the applicant. We will have a
19 proposed order from commission counsel that embodies
20 this, and I guess we will address it at the May
21 hearing.

22 MADAM CHAIR BAILEY: Did you want
23 Mr. Feldewert to submit a proposed order?

24 MR. BRANCARD: That would be lovely.

25 MR. FELDEWERT: Certainly.

1 MADAM CHAIR BAILEY: All right. The case
2 is concluded, then.

3 Other business before the commission?

4 MR. BRANCARD: I don't know if you want
5 any updates on the latest on the pit rule appeal
6 litigation.

7 We had a motion filed, I believe at the
8 end of last week, by the petitioners in the current
9 pit rule appeal, on the 2013 appeal, where this case
10 is now, as you are aware, before the court of
11 appeals.

12 It was originally filed in district court,
13 and we had the court of appeals judge certify it to
14 the court of appeals.

15 And at the same time -- or around the same
16 time another district court judge agreed to certify
17 the older appeals from 2008 and 2009 also up to the
18 court of appeals.

19 The court of appeals has issued a briefing
20 schedule for the current pit rule appeal which will
21 have the petitioner's brief due by the end of this
22 month.

23 The commission also placed the old appeals
24 on what's called the general calendar, which is a
25 briefing calendar. However, they then, in their

1 order, said they didn't want to see any briefing on
2 those old cases subject to the briefing on the
3 current case.

4 So it's the 2013 case that's going
5 forward.

6 We received a motion late last week from
7 the petitioners asking that the Court take notice --
8 I'm not quite sure of what that means -- of the
9 record from the old appeals in the new appeal.

10 That issue was raised during the hearing
11 of the current case, and the commission did not
12 agree with that and rejected that idea. So we are
13 opposing that motion to the Court.

14 We have a record that's close to 9,000
15 pages of your-alls exhibits, transcripts,
16 deliberation. And that was what you considered in
17 making your decision.

18 To suddenly have these records from these
19 old appeals that you didn't really even look at be
20 part of the record the Court looks at does not seem
21 like something that we would want to support, so
22 we're going to oppose that motion and will be filing
23 something soon with the Court. We have 15 days to
24 respond to the motion.

25 They have also -- given that they are

1 nearing their deadline in a couple of weeks for
2 their brief, they've asked the Court for a little
3 more time, depending on when the Court issues a
4 decision on this motion, and we did not oppose that.

5 So...

6 MADAM CHAIR BAILEY: 15 days is pretty
7 short.

8 MR. BRANCARD: Yes. So that's where we
9 are on those appeals.

10 I've been trying to keep you-all updated
11 by -- you know, by e-mail, and I will do that as
12 things pop up.

13 COMMISSIONER BALCH: What do you think the
14 long term time line is?

15 MR. BRANCARD: Well, I think it's 45 days
16 between each brief. So you know, the briefing is
17 not going to be done for another four months or so.
18 The Court's not too bad about turning cases around,
19 but it would probably be a year from now before we
20 hear anything.

21 MADAM CHAIR BAILEY: Thank you.

22 Is there any other business before the
23 commission today?

24 Then do I hear a motion to adjourn?

25 COMMISSIONER BALCH: I will make the

1 motion to adjourn.

2 COMMISSIONER WARNELL: I second that
3 motion.

4 MADAM CHAIR BAILEY: All those in favor?

5 COMMISSIONER BALCH: Aye.

6 COMMISSIONER WARNELL: Aye.

7 MADAM CHAIR BAILEY: Aye.

8 (Proceedings concluded.)

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CERTIFICATE

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I, Paul Baca, RPR, CCR in and for the State of New Mexico, do hereby certify that the above and foregoing contains a true and correct record, produced to the best of my ability via machine shorthand and computer-aided transcription, of the proceedings had in this matter.



PAUL BACA, RPR, CCR
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