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| 1 | STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT | | |
| 2 | OIL CONSERVATION COMMISSION | | |
| 3 | IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION FOR THE PURPOSE OF CONSIDERING: | | |
| 5 | APPLICATION OF OCCIDENTAL PERMIAN LIMITED Case No. 14981 PARTNERSHIP TO AMEND ORDERS R-4934 AND | | |
| 6 | R-4934-E GOVERNING THE SOUTH HOBBS GRAYBURG-SAN ANDRES PRESSURE MAINTENANCE PROJECT TO ALLOW THE | | |
| 7 | INJECTION OF CARBON DIOXIDE AND PRODUCED GASES, TO MODIFY THE SURFACE INJECTION PRESSURE, TO OBTAIN | | |
| 8 | OTHER RELIEF, AND TO QUALIFY THIS EXPANSION FOR THE RECOVERED OIL TAX RATE PURSUANT TO THE NEW MEXICO | | |
| 9 | ENHANCED OIL RECOVERY ACT, LEA COUNTY, NEW MEXICO | | |
| 10 | APPLICATION OF OCCIDENTAL PERMIAN LTD. Case No. 14976 FOR APPROVAL TO ADD THE NORTH HOBBS G/SA | | |
| 11 | UNIT WELL NO. 431 AS AN INJECTION WELL FOR WATER, CARBON DIOXIDE AND PRODUCED GAS IN ITS NORTH HOBBS | | |
| 12 | GRAYBURG-SAN ANDRES TERTIARY RECOVERY PROJECT LOCATED WITHIN THE HOBBS GRAYBURG-SAN ANDRES POOL, | | |
| 13 | LEA COUNTY, NEW MEXICO | | |
| 14 | | | |
| 15 16 | REPORTER'S TRANSCRIPT OF PROCEEDINGS COMMISSIONER HEARING | | |
| 17 | BEFORE: JAMI BAILEY, Chairman | | |
| 18 | DR. ROBERT BALCH, Commissioner TERRY WARNELL, Commissioner | | |
| 19 | May 10, 2013 Santa Fe, New Mexico | | |
| 20 | This matter came on for hearing before the New | | |
| 21 | Mexico Oil Conservation Commission, JAMI BAILEY, Chairman, on Friday, May 10, 2013, at the New Mexico | | |
| 22 | Energy, Minerals and Natural Resources Department, 1220 South St. Francis Drive, Room 102, Santa Fe, New Mexico. | | |
| 23 | | | |
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| 17 | | |
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- 1 CHAIRMAN BAILEY: We'll go back on the
- 2 record this morning. It's Friday, May 10th. This is a
- 3 continuation of Case 14981, which is the application of
- 4 Occidental Permian Limited Partnership to amend Orders
- 5 R-4934 and R-4934-E governing the South Hobbs
- 6 Grayburg-San Andres Pressure Maintenance Project to allow
- 7 the injection of carbon dioxide and produced gases, to
- 8 modify the surface injection pressure, to obtain other
- 9 relief, and to qualify this expansion for the recovered
- 10 oil tax rate pursuant to the New Mexico Enhanced Oil
- 11 Recovery Act.
- 12 All three Commissioners are here, so there is
- 13 a quorum of the Commission.
- When we left off yesterday evening, we were
- 15 ready for Kelley Montgomery to stand as a witness. Is
- 16 she -- would you like to call your witness?
- 17 MR. FELDEWERT: Madam Chair, just one
- 18 matter of housekeeping. Ms. Montgomery is going to be
- 19 going through what has been marked as Oxy Exhibit Number
- 20 12. In reviewing the information since this exhibit was
- 21 filed with the Commission, we noticed that there was a
- 22 typographical error on Slides 8, 9 and 10 of Oxy Exhibit
- 23 12. We ask that they be substituted. And I provided the
- 24 Commission with substitute slides, as well as the record.
- So with your permission, we would like to

- 1 substitute Slides 8, 9 and 10 in what is Oxy Exhibit
- 2 Number 12.
- 3 CHAIRMAN BAILEY: Is there an objection?
- MS. GERHOLT: No objection, Madam Chair.
- 5 CHAIRMAN BAILEY: Then we will accept
- 6 substituted Slides 8, 9 and 10.
- 7 MR. FELDEWERT: Thank you.
- 8 We are prepared to call Ms. Montgomery to the
- 9 stand.
- 10 CHAIRMAN BAILEY: Would you please stand
- 11 to be sworn and to sit at the witness stand?
- 12 KELLEY MONTGOMERY
- Having been first duly sworn, testified as follows:
- 14 DIRECT EXAMINATION
- 15 BY MR. FELDEWERT:
- Q. Would you please state your full name for the
- 17 record.
- 18 A. Kelley Montgomery.
- 19 Q. By whom are you employed?
- 20 A. By Oxy.
- 21 Q. And what are your current job
- 22 responsibilities?
- 23 A. I'm a regulatory consultant.
- Q. How long have you been with Oxy?
- 25 A. Twenty-two years as a consultant and as an

- 1 employee.
- Q. Do your current employment responsibilities
- 3 include the South Hobbs Unit?
- A. Yes.
- 5 Q. Are you part of the team at Oxy that has been
- 6 tasked with converting the South Hobbs Unit from a
- 7 waterflood to a tertiary recovery project?
- 8 A. Yes.
- 9 Q. Did you prepare the C-108 application that has
- 10 been marked in the record as Oxy Exhibit 1?
- 11 A. Yes, I did.
- 12 Q. Did you also prepare and supervise the area of
- 13 review analysis that has been marked as Oxy Exhibit
- 14 Number 2?
- 15 A. Yes, I did.
- Q. Were you involved in meetings before the
- 17 Division concerning your area of review analysis?
- 18 A. Yes. We had two meetings with the Division
- 19 going over our area of review.
- Q. What subjects will you be discussing with the
- 21 Commission today?
- 22 A. We'll be discussing the C-108 in the area of
- 23 review. I believe there's also talk about our TA'd wells
- 24 and the cement bond logs.
- 25 Q. And I think at the beginning you and I will

- 1 quickly go through the data that's necessary for the tax
- 2 incentive?
- A. Yes.
- Q. Did you prepare slides to assist you in
- 5 presentation here today?
- 6 A. Yes.
- 7 Q. If you'll take out that white notebook and
- 8 turn to what's Tab 12 --
- 9 A. Okay.
- 10 Q. -- what's been marked as Oxy Exhibit Number
- 11 12. Are these the slides that you have prepared for your
- 12 testimony?
- 13 A. Yes.
- Q. Does it comprise 23 pages?
- 15 A. Yes, it does.
- 16 Q. Okay. Let's turn to the first slide. Does
- 17 this accurately summarize your educational background and
- 18 work history?
- 19 A. Yes, it does.
- Q. How long have you been a Registered
- 21 Professional Engineer?
- 22 A. Since 1997.
- Q. And it indicates that in 22 years you served
- 24 as an engineer in oil and gas matters related to
- 25 production engineering?

- 1 A. Yes.
- 2 Q. As well as environmental engineering?
- A. As well as environmental, yes.
- Q. What experience do you have with CO2 floods?
- 5 A. All of my production engineering experience
- 6 has been in CO2 floods. And the most recent production
- 7 engineering stint was with a reinjection -- CO2
- 8 reinjection flood. And then all of my environment
- 9 experience has been in the Permian Basin, so that was
- 10 also with CO2 recovery plants and with CO2 fields.
- 11 Q. As an environmental engineer, were you
- involved in health and safety compliance audits?
- 13 A. Yes. During my environmental engineering, we
- 14 did audits, we did compliance, permitting and dealing
- 15 with regulations and reading the regulations and helping
- our employees understand them and comply with them.
- Q. Were you involved in planning for CO2 floods?
- 18 A. Yes.
- 19 MR. FELDEWERT: I would tender
- 20 Ms. Montgomery as an expert witness in oil and gas
- 21 production engineering and oil and gas environmental
- 22 engineering.
- 23 CHAIRMAN BAILEY: Any objection?
- MS. GERHOLT: No objection.
- 25 CHAIRMAN BAILEY: She is accepted.

- 1 O. (By Mr. Feldewert) Are you aware that there
- 2 is a Division order that governs the information that
- 3 must be presented to qualify for the tax relief afforded
- 4 by the Enhanced Oil Recovery Act?
- 5 A. Yes.
- 6 O. Was that information provided in Oxy's
- 7 application that has been filed with this Commission?
- 8 A. Yes, it was.
- 9 Q. Do we have some slides that will allow us to
- 10 quickly go through that particular information?
- 11 A. Yes.
- 12 Q. Turn to Slide 2. Does this provide us with a
- 13 legal description of the project area?
- 14 A. Yes, it does.
- 15 O. It notes at the bottom that there was an error
- in the legal description that currently exists in
- 17 R-4934-E. Are you aware of that?
- 18 A. I'm aware of that.
- 19 Q. On this Slide 2 of Oxy Exhibit 12, do you
- 20 identify the area where the error occurred in the order
- 21 by way of an asterisk?
- 22 A. Yes. There are two asterisks noted.
- Q. Does this slide accurately reflect the legal
- 24 description of the project area?
- 25 A. Yes, it does.

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- 1 Q. If I go to what's been marked as Slide Number
- 2 3, does this accurately set forth and summarize the
- 3 amount of acreage that's involved in the project area?
- 4 A. Yes, it does.
- 5 Q. Does it accurately set forth the pool and
- 6 formation that's involved?
- 7 A. Yes.
- Q. Does it identify the orders that are currently
- 9 governing this project?
- 10 A. Yes.
- 11 Q. As this reflects, this is a current waterflood
- 12 operation?
- 13 A. That's correct.
- Q. At the bottom of this slide, does it identify
- 15 the proposed operation that is being heard by the
- 16 Commission?
- 17 A. Yes.
- 18 Q. If we then go to what's marked as Slide Number
- 19 4, does it accurately set forth what you anticipate to be
- 20 the capital cost of additional facilities?
- 21 A. Yes.
- Q. Does it identify the total project capital
- 23 cost?
- 24 A. Yes.
- 25 Q. You also provided an estimate of the

- 1 additional production that you intend to recover?
- 2 A. That's correct.
- Q. What's the anticipated start date for your
- 4 injection?
- 5 A. September 2015.
- 6 Q. Does Slide 4 at the bottom accurately
- 7 summarize the type of injected fluid and the anticipated
- 8 volumes?
- 9 A. Yes, it does.
- 10 Q. If we move on to Slide Number 5, there's one
- 11 point that we need to make with Slide Number 5. The
- 12 actual list of the current injection and production wells
- is not contained in Section 3 of the application. It's
- 14 actually provided as Exhibits B and C to the application;
- 15 isn't that correct?
- 16 A. That's correct.
- Q. Section C, which we incorrectly referenced
- 18 here, actually deals with the proposed injection list?
- 19 A. That's right. That's the list of proposed
- 20 injectors.
- 21 Q. So the list of the current injection and
- 22 production wells have been provided to the Commission as
- 23 Exhibits B and C to the application?
- A. Yes, that's correct.
- Q. Finally, if we go to what's been marked as

- 1 Slide Number 6 in Oxy Exhibit 12 -- we've seen this
- 2 before -- is this the historical and forecasted
- 3 production history that has been provided to the
- 4 Division?
- 5 A. Yes, that's what it is.
- 6 Q. This was actually Exhibit D to Oxy's
- 7 application; is that correct?
- 8 A. That's correct.
- 9 Q. Having fulfilled the requirements for the Tax
- 10 Incentive Act, let's now turn to a discussion, if we
- 11 could, of the proposed injector wells, okay?
- 12 A. Okay.
- 13 Q. First off, perhaps what we should do is, if we
- 14 go to -- put this notebook aside and go to what's been
- 15 marked as Oxy Exhibit 1, which should be the smaller
- 16 white notebook, which is the C-108 application.
- 17 Ms. Montgomery, if we go to the second tab in
- 18 that notebook, I believe it contains a list of the
- 19 proposed injectors that you foresee currently for the
- 20 South Hobbs Unit?
- 21 A. Yes. There's a list of 53 total injectors.
- Q. Now, can you just explain to us briefly how
- 23 this particular portion of the notebook that's marked as
- 24 Oxy Exhibit 1 is organized?
- 25 A. Sure. What you're looking at on this first

- 1 page is -- in the left-hand column you have the well
- 2 name. And as you move to the right through the columns,
- 3 you'll have the API number of that well. The next few
- 4 columns are the locations of the well. The next column
- 5 is the proposed injectant.
- 6 So the two differences there, you've got the
- 7 purchased CO2 and water, and then you also have your
- 8 produced gas, CO2 and water. And this differentiates
- 9 between the different injectors.
- 10 And then the final column talks about the
- 11 current status of the well. The first 30 are currently
- 12 active wells, and then the new drills are summarized just
- 13 below that. So if you turn the page --
- Q. We'll go to the second page under Tab 3?
- 15 A. Yes. What you have there, there's three
- 16 11-by-17 sheets. On the first one, it's labeled,
- 17 "Injection Well Information for Existing Wells," what you
- 18 have on here on the left-hand side column is your well
- 19 number. And this is all of the casing and cement data
- 20 for each of the existing wells as they are today.
- 21 So it goes from conductor cases to surface
- 22 casing, if they have intermediate casing, production
- 23 casing, and if there's a liner.
- Q. So this is the information on the 30 existing
- 25 wells?

- 1 A. That's correct.
- Q. And then what follows this spreadsheet?
- 3 A. On the next page we continue with Injection
- 4 Well Information for Existing Wells. And this talks
- 5 about -- you have your well numbers on the left-hand
- 6 side, and then the tubing to be used, a packer
- 7 description, proposed setting depth, and the injection
- 8 interval proposed.
- 9 On the next page if we continue on, this
- 10 discusses our new drills, and it's labeled, "Injection
- 11 Well Information for Proposed New Drills," and all of the
- 12 information for the new drills is on this one sheet.
- 13 You've got your well name on the left-hand side column,
- 14 and then your proposed casing, tubing, packer
- 15 description, and the injection interval.
- 16 O. There are 23 of these?
- 17 A. That's correct.
- 18 Q. That's reflected on the third -- actually the
- 19 fourth page under Tab 3 of this Exhibit 1?
- 20 A. That's correct.
- 21 Q. And that's broken down into your vertical new
- 22 drills and then the directional new drills?
- 23 A. That is correct.
- Q. And then what follows these spreadsheets?
- 25 There's a series of schematics. What do those relate to?

- 1 A. These are the individual wellbore schematics
- 2 for each proposed injector, so all of our current
- 3 injectors. There will be 30 pages showing those. And
- 4 then the last two sheets in that are the proposed
- 5 schematics for the new drills.
- 6 So if you go to the last two sheets in that
- 7 section, the first one says, "Example Wellbore Diagram of
- 8 Proposed Vertical New Drills." It shows where we'll set
- 9 the casing and circulate the cement. And on the next
- 10 page, it's identical, and it's our Proposed Directional
- 11 New Drills.
- 12 Q. Now, being the detailed person that you are,
- 13 you noticed recently that there is a particular --
- 14 there's a typo at the bottom of the second-to-the-last
- page under Tab 2 of Exhibit Number 1; correct?
- 16 A. Yes. This is the Example Wellbore Diagram of
- 17 the Proposed Vertical New Drills. The total depth says,
- 18 "4,572." It's actually 4,500, which is consistent with
- 19 all the tabular data that was presented.
- 20 Q. And really there's no -- as I understand it,
- 21 there's no difference between the two schematics shown on
- the last two pages?
- 23 A. They both have the same true vertical depth.
- Q. In terms of their configuration as shown on
- 25 the schematic, is it basically the same?

- 1 A. It's basically the same. The directional --
- all of our directional injectors will be at different
- 3 lengths, so they're not depicted here. They're just
- 4 depicted as their true vertical depth.
- 5 Q. Now, we had this data. Did you undertake an
- 6 effort to try to organize or summarize these wells in
- 7 some format?
- 8 A. Yes, I did.
- 9 Q. If you'll turn to what's been marked Slide 7
- 10 of Oxy Exhibit 12. This deals with 53 injection wells
- 11 that we just briefly reviewed; correct?
- 12 A. That's correct. What we present to the
- 13 Division and talked to the Division about was each
- 14 individual -- we went through each of the individual
- 15 wellbore diagrams. But for purposes of this hearing, I
- 16 tried to summarize that for presentation.
- So what we have here is 30 existing wells.
- 18 All of these wells have surface, and some have
- 19 intermediate casing, and that is cemented to surface.
- 20 Twenty-six of those 30 existing wells are configured with
- 21 surface and production casing. Of those, we have 23 that
- 22 have the production casing that's cemented to surface.
- 23 Three of those remaining wells have, at minimum, 600 feet
- of cement above the injection interval, above the top of
- 25 Grayburg.

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- 1 Q. One group or bucket of these 30 existing wells
- 2 is the 26 wells that you just described? And we have two
- 3 more groups?
- 4 A. Two more groups to summarize the 30 existing
- 5 wells.
- 6 So the second group, there are three wells
- 7 that I lumped into this group. Two of those have
- 8 surface, intermediate casing, production casing and a
- 9 full liner, and one of them has surface production casing
- 10 and a full liner.
- To note on those three, all of these have, at
- 12 minimum, 720 feet of cement above the top of the Grayburg
- 13 or above the injection interval.
- 14 Q. And the last group?
- 15 A. It just consists of one well. It's just
- 16 configured a little bit differently. It's got surface,
- intermediate casing, production casing and also has a
- 18 partial liner at the bottom. This well has at least
- 19 1,470 feet of cement above the injection interval.
- 20 Q. Do you have a representative schematic of each
- 21 one of these three groups?
- 22 A. I do, if you turn to the next slide.
- 23 O. Slide 8?
- 24 A. Yes.
- Q. This is for the group of 26 wells?

- 1 A. That's correct.
- 2 It's easier for me to look at these in the
- 3 wellbore schematic. So I tried to go ahead and summarize
- 4 it based on the wellbore schematic. This is summarizing
- 5 those 26 wells that are existing injectors that were
- 6 going to be part of the project.
- 7 This group, as I said previously, has got
- 8 surface and production casing. If you look at this
- 9 wellbore schematic, the black line represents the surface
- 10 casing. The surface casing on all 26 wells, the
- 11 shallowest is set here about 302, and the deepest is set
- 12 at 1,670. All of them have cement circulated to surface.
- So what that means is those 26 wells all have
- 14 production -- excuse me -- surface casing set in this
- 15 interval and have cement circulated to the surface.
- 16 And then the production casing, that is in
- 17 red, right here, it's set between 4,114 and 4,498. So
- 18 all of the 26 wells have casing set in between these two
- 19 intervals.
- 20 And then as I said previously, 23 of those 26,
- 21 the cement is circulated all the way to surface. And
- then of the three remaining, they have, at minimum, 600
- 23 feet of cement above the injection interval. That's just
- 24 a summary of 26 of the existing injectors.
- Q. Ms. Montgomery, in your opinion, do these

- 1 groups of injection wells have the proper casing and
- 2 cement to prevent migration of the injected fluid out of
- 3 the proposed injection interval?
- A. Yes, they do.
- Q. Let's turn to your second group, which would
- 6 be on Slide 9.
- 7 A. This is -- bear with me. There's a lot of
- 8 strings of casing on this set.
- 9 These are three wells that have surface casing
- 10 that's shown in black. Two of them have intermediate
- 11 casing shown in green. And then you move to the
- 12 production casing in red. And then they also have a full
- 13 liner in blue.
- 14 So this is similar to what we looked at
- 15 before. The way I set this up is your surface casing on
- 16 this group of three wells, the shallowest is at 144 and
- 17 the deepest is at 250. That means you've got those three
- 18 wells that your casing shoe is set in between here. The
- 19 cement is circulated to surface.
- Q. What's the significance of the hatched lines?
- 21 A. Like for example, on this -- right here, on
- 22 the surface casing, it's all consistent right here. The
- 23 gray, that shows there's continuous cement all the way to
- 24 surface, and that's consistent also on the intermediate
- 25 casing.

- But if you look at the production casing, I've
- 2 got the hatch marks. So what that means is on some of
- 3 these wells, you're circulated all the way to surface.
- 4 And the deepest that you would have the top of the cement
- 5 is in this area right here. So your cement tops are in
- 6 between this area. So there's always cement up to this
- 7 point in all this group of wells.
- Q. Okay.
- 9 A. Then we can walk through this. Intermediate
- 10 casing was set between 1,653 and 2,768, again, cemented
- 11 to surface. Production casing set between 4,038 and
- 12 4,147. The top of the cement ranges, as I mentioned
- 13 before, 2,975 all the way up to surface. So the
- shallowest top of cement would be at 2,975. That's
- 15 greater than 720 feet of cement above your injection
- 16 interval.
- 17 All of these have a full liner, as well, that
- is set somewhere between 4,159, to the deepest at 4,202.
- 19 And the cement on their liner, the lowest cement is at
- 20 994, and it ranges all the way to surface.
- 21 Q. The intermediate casing that you've identified
- in green on Slide 9, does that apply to all three?
- 23 A. It applies to two of the three. One does not
- 24 have that intermediate casing. On that particular well,
- 25 that's the one that has the surface casing that's the

- 1 deepest at 250. So that well will have surface,
- 2 production and the liner.
- 3 Q. Is that the only difference between that well
- 4 and the other two wells? In other words, does all the
- 5 other information on this slide apply equally to that
- 6 third well without the intermediate casing?
- 7 A. That's true.
- Q. In your opinion, does this additional group of
- 9 wells have sufficient casing and cement to prevent
- 10 migration of the injected fluids out of the injection
- 11 interval?
- 12 A. Yes, it does.
- 13 Q. Let's go to the last well.
- 14 A. This is the last well. This is the only well
- 15 with this configuration.
- 16 Q. This is depicted on Slide 10?
- 17 A. This is Slide 10, yes.
- So in this well, your configuration is, you
- 19 have a surface casing, you have intermediate casing, you
- 20 have production casing, and then you'll have a partial
- 21 liner here across the injection interval.
- So your surface casing is set at 198 and
- 23 cemented to surface. Your intermediate casing shown in
- 24 green is set at 1,630, and you also have cement to
- 25 surface. Production casing is set at 4,057, and the top

- of cement is at 2,222. That's like 1,470 feet above your
- 2 injection interval. And then the liner here, there's
- 3 cement all the way to the top of the liner, and it's set
- 4 at 4,260.
- 5 Q. In your opinion, does this well have
- 6 sufficient casing and cement to prevent migration of the
- 7 injected fluids out of the proposed injection interval?
- 8 A. Yes, it does.
- 9 Q. That deals with the 30 existing injection
- 10 wells?
- 11 A. That's correct.
- 12 Q. Now let's turn to the remaining 22 proposed
- 13 new wells. Do you have schematics for them, as well?
- 14 A. I do.
- 15 Q. Let's go to Slide 11.
- 16 A. This is just a summary of those 23 proposed
- 17 new drills. Of those, six of them we propose vertical
- 18 wellbores, and 17 are the directional wellbores that we
- 19 talked about yesterday.
- The proposed surface casing on all of these is
- 21 to be set at 1,550 and cemented to surface. And proposed
- 22 production casing will be set at 4,500 and also cemented
- 23 to surface.
- Q. And then if we go to Slide 12?
- 25 A. This is just a picture representation of what

- 1 that slide just said. You've got -- on all of our
- 2 proposed new drills, there will be two strings of casing.
- 3 Your surface set at 1,550 and cemented to surface, and
- 4 your production in red set at 4,500 and also cemented to
- 5 surface.
- 6 Q. I got behind on the animation.
- 7 A. Or I got a little ahead.
- 8 Q. This same design is going to apply to both
- 9 your proposed vertical new drills and your horizontals;
- 10 correct?
- 11 A. Directional.
- 12 Q. Or directional. I'm sorry.
- 13 A. Yes, that's correct.
- 14 Q. In your opinion, will the configuration of
- 15 these new drills have proper casing and cement to prevent
- 16 migration of the injected fluids out of the proposed
- 17 injection interval?
- 18 A. Yes, it will.
- 19 Q. Okay. Then let's go to the subject of your
- 20 area of review analysis --
- 21 A. Okay.
- 22 Q. -- as depicted on Slide 13. That is contained
- in what's been marked as Oxy Exhibit Number 2; correct?
- A. That's correct.
- Q. Why don't you -- if we turn to that notebook,

- 1 would you first walk through it and just tell us how it
- 2 is organized?
- 3 A. Okay. First you'll see a sleeve and there's
- 4 an area of review map inside of that sleeve. If you turn
- 5 the page, there's an ll-by-17 paper, and this is the
- 6 flowchart or overview of how the entire AOR was
- 7 organized. There are quite a few wells.
- 8 COMMISSIONER BALCH: One moment.
- 9 MR. FELDEWERT: This is the larger of the
- 10 white notebooks.
- 11 COMMISSIONER WARNELL: What tab?
- 12 THE WITNESS: You have the map, and then
- 13 you have an 11-by-17 paper.
- 14 This is a flowchart that just talks about how
- 15 everything is organized.
- 16 MR. FELDEWERT: Let's go through it, and
- 17 then we'll come back.
- 18 THE WITNESS: If you see on the bottom of
- 19 this flowchart, there's different groups, Group 1, Group
- 20 2, Group 3, and how I organized, and I'll discuss that in
- 21 a moment.
- But behind the 11-by-17 page, that corresponds
- 23 in tabs to each one of those groups. And they're listed
- 24 here, "Group 1, Group 2, Group 3 and Group 5," all the
- 25 way to "Group 10."

- 1 Q. (By Mr. Feldewert) What is Group 10?
- A. Group 10 is all of our P&A'd wells that were
- 3 included in the area of review analysis, and includes
- 4 wellbore schematics of each of the P&A'd wells. Those
- 5 are organized by section.
- 6 Q. If I'm looking at the notebook at Oxy Exhibit
- 7 Number 2, there's a tab that has Group 10, and then
- 8 behind it are some additional tabs that identify the
- 9 sections?
- 10 A. Yes, the section the well is located in.
- 11 Q. Those all correspond to the 121 wells that are
- 12 the subject of Group 10?
- 13 A. That is correct.
- 14 Q. Now, with that general understanding, let's go
- 15 back to the beginning. Let's pull out this bubble map.
- Once we get that out, would you just walk us
- 17 through how this was created? Get us oriented first, and
- then tell us how this, what we call a bubble map, was
- 19 created.
- 20 A. What you're looking at is titled, "South Hobbs
- 21 Grayburg and San Andres Unit Area of Review Map." So
- 22 this is basically -- the South Hobbs Unit is outlined in
- 23 this magenta dotted line. It's basically the center of
- 24 your map. It encompasses the entire South Hobbs Unit.
- You'll also see some green dots that are

- 1 scattered around the unit. Some of them are just a green
- 2 dot and some of them are a green dot with dotted lines
- 3 coming off of them. All of the green is our proposed 53
- 4 injectors.
- 5 So the ones that are just a single dot are a
- 6 vertical. And then like, for example, if you look up in
- 7 Section 5 in the middle, you'll see a green dot, and
- 8 there's five directional wells coming off of that. So
- 9 you can see the surface location and you can also see the
- 10 bottomhole location depicted for each of the directional
- 11 wells.
- Now, all of the wells in pink are part of the
- 13 South Hobbs Unit. The wells to the northwest are in
- 14 purple. Those depict the North Hobbs Unit wells. And
- 15 then there are also a few scattered around in black, and
- 16 those are other operators.
- So you'll also notice that there's a big
- 18 shaded area. What we've done is taken from each one of
- 19 the wellbores surface location and/or bottom location,
- 20 whichever was the most conservative, and do a half-mile
- 21 radius around each one.
- 22 Q. Let me stop you there. For your existing
- 23 vertical wells or your injection wells, you can do the
- 24 half-mile radius out of its surface location?
- 25 A. Correct.

- 1 Q. Your directional wells are shown in green with
- 2 the dashed lines going out?
- 3 A. Yes.
- 4 Q. Explain what you did there with respect to the
- 5 bubble map for those directional wells.
- A. We looked at both the surface location and the
- 7 bottomhole location and drew a half-mile radius. And
- 8 whichever one extended further, we used that to include
- 9 our area of review.
- 10 Q. After you had those circles, what did you do
- 11 then, line them all into this bubble map?
- 12 A. Everything you see shaded is included in our
- 13 area of review, and those are all of the wells that were
- 14 reviewed for the area of review.
- 15 Q. Down in the -- you have to help me. There was
- 16 a letter that was sent in by an oil company by the name
- 17 of Big Al Oil?
- 18 A. Yes.
- 19 Q. Great name. Where are Big Al Oil's wells
- 20 located?
- 21 A. If you look in Section 9 -- and where that is
- is basically in the middle of the map, if you go up,
- 23 there's Section 21, Section 16, and then you go up and
- 24 you see Section 9 right in the middle. Outside the unit
- 25 boundaries to the southwest, there are two wells in black

- 1 that are -- it says, "Bradley McInroe d/b/a Big Al Oil &
- 2 Gas." There's two listed there, the Well Number 1 and
- 3 Well Number 2.
- 4 Q. This bubble map indicates that Big Al Oil's
- 5 wells are included within your area of review analysis;
- 6 correct?
- 7 A. Yes, they were.
- 8 Q. Then having identified your large area of
- 9 review and having undertaken your analysis, then you
- 10 tried to, for purposes of presenting it, group the wells
- 11 into various categories; correct?
- 12 A. That's correct.
- Q. Unless there's anything more about this map,
- 14 let's put this away and go into your grouping.
- 15 A. Okay.
- 16 Q. If I go to Oxy Exhibit Number 1 and I then go
- 17 to the second -- the first page being the bubble map we
- 18 just looked at. If I go to the second page, you have
- 19 your 8 1/2-by-11 sheet entitled, "Occidental Permian
- 20 South Hobbs Grayburg-San Andres Unit Area of Review
- 21 Methodology"; correct?
- 22 A. That's correct.
- Q. Would you walk us through the methodology that
- 24 you utilized to examine and then group the numerous wells
- 25 that you were required to look at?

- 1 A. The first thing we did was we identified the
- 2 53 injectors that will be included in the project and
- 3 drew our half-mile radius so we knew all of the wells
- 4 that would be included in this area of review. That
- 5 totaled 397 wells. Of those, 276 were active or TA'd
- 6 wells, and 121 wells with P&A'd.
- 7 This process began over a year ago. And the
- 8 first step was to -- we hired a consultant, Mr. David
- 9 Catanach, to pull the data off the NMOCD well files, and
- 10 that was our first task. And we also asked him his
- 11 opinion as he collected the data on each of the
- 12 wellbores.
- 13 Q. Let me ask you something about your data
- 14 sources. It was the OCD website?
- 15 A. Yes.
- 16 Q. At times, with some of these wells, was there
- 17 some -- was it always clear what was going on with that
- 18 particular well from the data on the OCD website?
- 19 A. No. There were a few wells that Mr. Catanach
- 20 was not able to find. There was a well file mix-up, or
- 21 there were a few things that he had questions on. So
- 22 with those few wells, we looked through the Oxy
- 23 information, and we then sent that information to the --
- 24 I guess in the form of a sundry, sent that into the NMOCD
- 25 to update those files.

- 1 Q. So whatever additional data that you had
- 2 within the company to help deal with the -- and clarify
- 3 the circumstance of the well, you took that into account
- 4 in your analysis, number one?
- 5 A. Yes.
- 6 Q. And you also filed it by way of a sundry
- 7 notice with the Division? So now all of this data is in
- 8 the OCD website?
- 9 A. That's correct.
- 10 Well, then I took the data, after we received
- 11 it back from our consultant, and reviewed each well.
- 12 There was a large number of wells. So for me, it was the
- 13 easiest thing to group them by well construction so that
- 14 it was easier to analyze the individual wellbores. So
- 15 that's what I've done.
- 16 When you see these nine groups -- for example,
- 17 you have like Group 1. Those are shallow wells. Those
- 18 actually did not even penetrate our Grayburg-San Andres,
- 19 but they were included just to make things complete.
- 20 There are only two wells in that group.
- 21 So I did that for each one. So you can see
- 22 the same thing. Group 2, there are some deeper wells
- 23 with surface and production casing. You can go ahead and
- 24 read through these.
- But bottom line, what was done, if they had a

- 1 similar well construction, for example, they were cased
- 2 with similar strings of casing and they were at similar
- 3 depths, I grouped them into a group so they would be
- 4 easier to analyze.
- 5 So if you go to Group 1, Tab 1, on each one of
- 6 these tabs, what you'll find is wellbore schematic where
- 7 I tried to summarize the data. And then if you turn the
- 8 next page, you'll see the actual tabular data as was
- 9 provided to us. This tabular data has got everything on
- 10 it, and this was the individual information that was used
- 11 to analyze each well.
- 12 Q. Now, if we look at your -- let's focus right
- 13 now on Groups 1 through 9. It looks like the largest
- 14 group was Group 4?
- 15 A. Yes. That contained 166 wells, so that was
- 16 our largest bucket.
- 17 Q. So let's -- I think we have a slide for that
- 18 that's marked in Oxy Exhibit 12 as Slide 14.
- 19 Why don't you -- just by way of example, let's
- 20 just walk through Group 4.
- 21 A. I wanted to walk through this group because it
- 22 contained our largest number of wells, so I can show you
- 23 how I tried to summarize the data.
- In this group it has two strings of casing.
- 25 You have surface casing in black and production casing in

- 1 red. In this particular group, all the surface casing
- 2 was set between 281 feet and 1,718 feet. So all the
- 3 cement in this group behind the surface pipe was cemented
- 4 to surface either by the initial cement or through
- 5 subsequent remedial cementing. So all of your casing is
- 6 set in between these two depths.
- Now, all the production casing you can see in
- 8 red. These are set between the depths of 3,983 and
- 9 5,370. All 166 wells are in between these two casing
- shoe depths. The top of the cement ranges from 3,225 all
- 11 the way up to the surface in these wells. At minimum,
- 12 you have 470 feet of cement above the Grayburg-San Andres
- 13 formation in this particular group.
- 14 Q. You did this type of analysis and grouping for
- each of the groups identified as 1 through 9 on the
- 16 second page of Oxy Exhibit 2?
- 17 A. Yes, I did.
- 18 Q. How did you go about putting together this
- 19 schematic for each group? What was your methodology?
- 20 A. You have to look at each individual wellbore
- 21 to do this, so they're all in a spreadsheet. So the
- 22 first pass was to go line by line and look at each one.
- 23 And then I was able to import them into a spreadsheet and
- 24 try to sort it so you can look at top of cement or any
- 25 anomalies like that. But really, there was no -- we

- 1 still had to go through line by line in the tabular form
- 2 for each one of the wells.
- 3 Q. All of this information that we see -- let me
- 4 step back. With Group 10, rather than try to organize it
- 5 by group, how did you approach the P&A'd wells in Group
- 6 10?
- 7 A. The P&A'd wells, we identified initially. And
- 8 we hired a consultant, Mr. Ben Stone, to construct the
- 9 P&A diagrams and go through the NMOCD online database to
- 10 pull the information.
- 11 Q. You have all that information, diagrams,
- 12 individual wellbore diagrams, by section under Tab 10?
- 13 A. Yes.
- 14 Q. You mentioned that you had visited with the
- 15 Division about your area of review information. I think
- 16 you mentioned a couple of meetings?
- 17 A. Yes. We had two meetings. Mr. Ezeanyim was
- 18 in both of those meetings.
- 19 Q. Did you review all of this information with
- 20 Mr. Ezeanyim?
- 21 A. We did. We walked through this type of
- 22 analysis. But we also got into individual wells, and we
- 23 walked through many P&A'd wellbore diagrams with the
- 24 Division.
- Q. After all this analysis, how many -- I guess

- 1 we'll call them problem wells. How many did you find?
- 2 A. We found one potential problem well that we
- 3 identified.
- 4 O. Do we have a schematic on that?
- 5 A. Yes.
- 6 O. Turn to what's marked as Slide 15.
- 7 Why don't you tell us what's going on with
- 8 this particular well.
- 9 A. Okay. This one is a well that we identified.
- 10 It's not operated by Oxy. It was a Chesapeake Operating
- 11 Company, but they recently sold this well to Chevron. It
- 12 was drilled in 2002, and it's located on the southwest
- 13 corner of -- I think it's actually southeast. Anyway, on
- 14 the south part of the South Hobbs Unit.
- This well has two strings of casing. The
- 16 surface casing looks fine. It was set at 1,723 and the
- 17 cement was circulated to the surface. But if you look,
- this is a -- production casing was set at 7,787. It's a
- 19 deep well producing from a different horizon. And the
- 20 top of cement was calculated to be 4,454, which was not
- 21 adequate to cover our injection interval.
- Q. Did you have enough -- we labeled this as a
- 23 problem well. But do you have enough information to know
- 24 if it really is a problem yet?
- 25 A. No. We contacted both Chevron and Chesapeake

- 1 to see if they had any more information in their well
- 2 files, and they indicated they did not. So I guess we
- 3 would probably need to run a CBL to ascertain exactly
- 4 where that cement top is. And then if it's not adequate,
- 5 then it would have some type of remedial cement to get it
- 6 to Division's standards.
- Q. Is it the company's intention to do some
- 8 analysis to ascertain whether there is a problem with
- 9 this well?
- 10 A. Yes.
- 11 Q. And if there is, to undertake whatever
- 12 remedial efforts are necessary to ensure that the
- injectants do not migrate out of the zone?
- 14 A. Yes.
- 15 Q. Does the company intend to inject within a
- 16 half mile of this well before this analysis and
- 17 remediation is undertaken?
- 18 A. No, we do not.
- 19 Q. So the company will not engage in any
- 20 injection operations within a half mile of this well
- 21 until it has been reviewed, analyzed and any problems
- 22 dealt with; correct?
- A. That's correct.
- Q. Putting aside this well, this particular well
- 25 on Slide 15, in your opinion, are all of the remaining

- 1 wells within the area of review sufficiently cased or
- 2 cemented to prevent migration of the injected fluids out
- 3 of the proposed injection interval?
- 4 A. Yes, they are.
- 5 Q. Now let's go to the next topic, and that is
- 6 dealing with bringing these injection wells on line.
- 7 There's been testimony yesterday about the
- 8 time frame that is associated with getting this project
- 9 up and running and in commencing this tertiary recovery
- 10 project. First off, as you know, or as I understand it,
- 11 you don't anticipate the injection to commence for
- 12 another two years?
- 13 A. That's correct.
- 14 O. And then after that point in time, there's
- 15 going to be additional injection wells that -- at least
- 16 53 that are going to be brought on line gradually as
- 17 you're able to get the facilities in and get the work
- 18 completed?
- 19 A. That's correct.
- 20 Q. Given that timeline, is the company requesting
- 21 that there be a period of time in which this area of
- 22 review would essentially remain in place so that you
- 23 don't have to repeat this extensive analysis two or three
- 24 years from now?
- A. We're requesting five years.

- 1 Q. If I go to Slide 17, as I understand it, you
- 2 are requesting two things. That is there would be no
- 3 update to the area of review for wells that commence
- 4 injection within the next five years?
- 5 A. Yes.
- 6 O. What about the wells that would commence
- 7 injection greater than five years from now?
- A. What we propose is to re-look at the wells,
- 9 and any wells within the area of review that we already
- 10 examined and we've already had the Division review, we
- 11 would not update those AORs. But we would update
- 12 anything that was new in that area of review, anything
- 13 within that half mile.
- Q. What's your rationale behind that request?
- 15 A. There are several reasons that we -- like you
- 16 just mentioned, this project is going to be phased in
- over many years, and we won't even begin with injection
- 18 for two more years. So there's -- we've already reviewed
- 19 everything, every well in the South Hobbs Unit at that
- 20 time, so it would be duplicative if we submitted area of
- 21 review twice for these wells -- I'm sorry. I just got
- 22 ahead of myself. We've already done the area that covers
- 23 everything.
- This is a concept that was adopted in the
- 25 North Hobbs Unit, and we're doing it today. And it

- 1 really streamlines the process. For anything that's
- 2 already been submitted and reviewed and accepted by the
- 3 Division, we would only update things that have changed
- 4 and conditions that have changed.
- I also looked at this current area of review.
- 6 And in the last 10 years, there were four wells drilled
- 7 in this area. There's not a lot of activity. Two of
- 8 them were by Oxy. The activity in this area is really
- 9 going to be associated with the CO2 project, and Oxy is
- 10 the one driving that, so we will know if there's any
- 11 changes going on in the area of review.
- 12 Q. In your opinion, is there anything to be
- 13 gained from redoing and resubmitting this entire analysis
- 14 contained in these two notebooks for this area over the
- 15 next five years?
- 16 A. No.
- 17 Q. In your opinion, will this request by Oxy pose
- an unreasonable risk for the public health or the
- 19 environment?
- 20 A. No.
- 21 Q. I now want to turn to a discussion of the TA'd
- 22 wells, in particular, the mechanical integrity test
- 23 frequency that currently exists for the wells in the
- 24 South Hobbs Unit. What is Oxy requesting?
- A. What we're requesting is for our temporarily

- 1 abandoned wells to have an MIT frequency of five years on
- 2 those wells that we installed pressure monitors and we
- 3 have real time monitoring on those wellbores.
- 4 Q. So it's only for these wellbores that Oxy gets
- 5 these real time monitors on that Mr. Hodges talked about?
- 6 A. That's correct.
- 7 Q. That would be connected to your SCADA system?
- 8 A. Correct.
- 9 Q. Until those real time monitors are on those
- 10 wells, this exception that you're requesting would not
- 11 apply?
- 12 A. That's correct. We would just be at the
- 13 frequency that is prescribed by the Division or the
- 14 District Office.
- 15 Q. Let's go to Slide Number 17 first. Under the
- 16 current regulatory environment, there's two rules that
- 17 provide MIT frequency. One is for temporary abandoned
- 18 wells and one is for injectors; correct?
- 19 A. That's correct.
- 20 Q. The rules for the temporary abandoned wells
- 21 essentially, at least, seem to contemplate in
- 22 circumstances a five-year cycle; correct?
- 23 A. That's correct.
- Q. Given that, if we go to what's been marked as
- 25 Slide 18, what is the current frequency for your TA'd

- 1 wells in the South Hobbs Unit?
- 2 A. These were pulled down from the -- per the
- 3 NMOCD District Office, the data. So what you see on the
- 4 left-hand side shaded in purple are the wells that are on
- 5 a five-year -- currently on a five-year MIT test
- 6 frequency in the South Hobbs Unit. That's 24 of our
- 7 wells.
- In the blue shading, there are 16 wells, and
- 9 those wells are on a one-year test frequency. And then
- 10 we have a few that are on -- I think one well is on a
- 11 two-year test frequency, and three wells are on a
- 12 four-year test frequency.
- 13 Q. That's going on currently in the South Hobbs
- 14 Unit?
- 15 A. Yes. I believe this was pulled in March, this
- 16 data.
- Q. Obviously, you have to have personnel devoted
- 18 to this, and the Division has to have personnel devoted
- 19 to this: correct?
- A. That's correct.
- 21 Q. If you turn to Slide 19, this is what you
- 22 are -- to maybe put it in written language, this is what
- 23 you are essentially proposing; correct?
- A. That's correct.
- 25 Q. This would be your alternative to the current

- 1 MIT schedules that are in place for the South Hobbs Unit
- 2 by the District Office?
- 3 A. That's correct.
- 4 Q. You are going to do an MIT when the well is
- 5 initially TA'd; correct?
- A. Yes.
- 7 Q. For example, as Mr. Brockman pointed out,
- 8 there are some additional TA'd wells that are going to
- 9 occur as a result of your development plan?
- 10 A. Yes.
- 11 Q. Before those go into TA status, you're going
- 12 to do an MIT per the Division standards?
- 13 A. That's the plan.
- 14 Q. And only for those wells where you installed a
- 15 sensor device are you asking for this five-year
- 16 frequency?
- 17 A. Yes, that's correct.
- 18 Q. If it's requested, you will share this data
- 19 with the Division office?
- 20 A. Yes. And I also spoke with Mr. E.L. Gonzales
- 21 about this, and we talked about having data available to
- 22 the District Office on all these wells that we have
- 23 pressure monitors on.
- Q. Is he -- what was his reaction to this
- 25 alternative that Oxy has proposed?

- 1 A. He was in favor of it. We talked about how we
- 2 could make it work and how it would work for both Oxy and
- 3 the District Office. But he was in support of this.
- 4 Q. Now, in addition to what you are proposing
- 5 here, you will also do annual Bradenhead tests on your
- 6 wells: correct?
- 7 A. On the injectors and on the TA'd wells, that's
- 8 correct.
- 9 Q. What I'm going to do is skip -- let's go to
- 10 Slide 21. Does Slide 21 identify your Bradenhead testing
- 11 program?
- 12 A. Yes, it does.
- Q. Why don't you walk us through this.
- 14 A. The Bradenhead, as you know, is the annular
- 15 space between the surface casing and the production
- 16 casing. This test that they do is designed to indicate
- 17 that there's casing integrity between the surface and the
- 18 production casing. And all of our injectors and our TA'd
- 19 wells do this annually, and the results are submitted to
- 20 the District Office.
- 21 Q. So you have this annual Bradenhead testing
- 22 program reflected on Slide 21. And then in addition to
- 23 that, for these TA'd wells, you will have sensor monitors
- 24 like those depicted on Slide 22?
- 25 A. Yes. You're looking at an injection well.

- 1 This is not a TA'd well. But the point of this slide was
- 2 to show what the pressure sensor monitor would look like.
- 3 It's the same one that we have on our injection wells
- 4 currently.
- 5 Q. Does the request that -- in your opinion, does
- 6 the request that Oxy seeks here as reflected on Slide 19,
- 7 will that provide a reasonable level of protection to the
- 8 public health and the environment?
- 9 A. Yes, it will.
- 10 Q. Do you believe that that is an equally safe
- 11 alternative to the MIT frequencies that currently exist
- 12 for your TA'd wells in the South Hobbs Unit?
- 13 A. I do. And it also -- because it is tied to a
- 14 SCADA system and you have pressure monitoring, so you
- 15 also will know, on a higher frequency, very quickly if
- 16 you've got any pressure issues. Whereas with MIT
- 17 frequency, you have to wait for the test to know.
- 18 Q. Now, on the slide I skipped, Slide 20 --
- 19 before we talk about Slide 20, let's go back to that
- 20 Slide Number 17.
- 21 You mentioned that the Division rules
- 22 contemplate a five-year frequency for both temporary
- 23 abandoned wells and also for injectors; correct?
- 24 A. Yes.
- Q. At the bottom of Slide 17, the rules state

- 1 that at least once every five years thereafter, the
- 2 operator shall test an injection well?
- 3 A. That's correct.
- Q. If we go to what's marked as Slide 20, what is
- 5 the purpose of the slide?
- A. The purpose of this is to show that we do have
- 7 an MIT program for the injection wells; that we also have
- 8 pressure monitoring on our injection wells; and that we
- 9 have data that would be available to the District to show
- 10 any type of casing issue or tubing packer issue, because
- 11 we've got the pressure monitors on our injection wells.
- 12 Q. In your opinion, given the -- and you do your
- 13 annual Bradenhead test?
- 14 A. Yes.
- 15 O. Both on your TA'd wells and on your injectors?
- 16 A. That's correct.
- 17 Q. Given that circumstance, in your opinion, is
- it necessary for the company and the Division to be
- involved in an MIT on these injection wells on a yearly
- 20 basis?
- 21 A. No.
- Q. Did you meet with the Division about a
- 23 frequency that would be appropriate for your injection
- 24 wells given the real time monitoring devices that you
- 25 have available and given the fact that you conduct your

- 1 annual Bradenhead testing?
- 2 A. Yes, we discussed this.
- 3 Q. What was the result of those discussions?
- A. When we talked to the Division, with
- 5 Mr. Ezeanyim, he mentioned that he would recommend a
- 6 two-year frequency for the MIT on the injectors. We did
- 7 not object or disagree with that recommendation. The
- 8 purpose of this is just to show that we will be equally
- 9 protective on our injections and will have monitors on
- 10 our injection wells.
- 11 Q. In your opinion, given the circumstances
- 12 reflected on Slide Number 20, in your opinion, do you
- 13 believe a reasonable level of safety is provided if the
- 14 MIT program for injectors was every five years, as
- 15 contemplated by the rule, or at least as -- within the
- 16 contemplation of the rule?
- 17 A. Yes.
- 18 Q. And do you believe that that would provide a
- 19 reasonable level of protection to public health and the
- 20 environment?
- 21 A. Yes, I do.
- Q. Let's turn to the last topic, and that is the
- 23 Rule 15 that currently exists under Division Order
- 24 4934-E. First off, do the requirements that are depicted
- 25 here in Rule 15 exist for the well in the North Hobbs

- 1 Unit?
- 2 A. No, it does not.
- 3 Q. And in your opinion, is this rule, as it
- 4 currently exists with the South Hobbs Unit, is it
- 5 necessary to protect the public health and the
- 6 environment?
- 7 A. I don't believe so.
- 8 Q. Why is that?
- 9 A. We've analyzed all of our wells in the South
- 10 Hobbs Unit and we've looked at the cement, we've looked
- 11 at the cement tops, and we've determined them, also with
- 12 the Division, to be adequately cemented. So we feel like
- 13 they're already protective. Any new injectors will have
- 14 cement circulated to surface.
- And this rule here, the way it's written, it
- 16 contemplates running multiple CBLs anytime you pull a
- 17 well, and I don't think you get anything different if you
- 18 run multiple CBLs on the same well.
- 19 Q. Do you believe that this rule, if it remains
- 20 in effect, will result in the running of CBLs for
- 21 existing wells that are unnecessary?
- 22 A. I do.
- Q. Is there anything to gain by running cement
- 24 bond logs on a production well, for example, every time
- 25 you pull the rod and the tubing?

- 1 A. No, I don't think there is.
- 2 Q. Are you asking the Commission to essentially
- 3 strike this Rule 15?
- A. Yes, that is what we are asking.
- 5 Q. In your opinion, will the striking of this
- 6 Rule 15 pose any threat to the health and safety of the
- 7 public?
- 8 A. No, it will not.
- 9 Q. If I turn to what's marked as Oxy Exhibit
- 10 Number 4, this is the original order that was entered by
- 11 the Commission in 1974; correct?
- 12 A. Correct.
- 13 Q. For the waterflood operation?
- 14 A. Yes.
- 15 Q. If I go over to Rule 13, which is on page 7,
- 16 that's the same rule that we're talking about here on
- 17 Slide 23?
- 18 A. Yes, that's correct.
- 19 Q. Then in 4934-E, because of changes in the
- 20 numbering of the rule system, it became Rule 15?
- 21 A. That's correct.
- Q. So essentially this rule was put in place back
- 23 in 1974?
- A. That's correct.
- Q. At a time when we knew very little or didn't

- 1 know as much as we know now about the wells that exist
- 2 within the South Hobbs Unit area?
- 3 A. Yes.
- 4 Q. Based on the knowledge that we know now about
- 5 all of the wells in the South Hobbs Unit area, in your
- 6 opinion, do you see any reason to retain this rule any
- 7 longer?
- 8 A. No, I don't.
- 9 Q. In your opinion, will the granting of Oxy's
- 10 application be in the best interest of conservation, the
- 11 prevention of waste and the protection of correlative
- 12 rights?
- 13 A. Yes.
- 14 Q. In your opinion, will the granting of the
- 15 relief requested by Oxy pose an unreasonable risk to the
- 16 public health or the environment?
- A. No, it won't.
- 18 Q. Were the slides comprising Exhibit 12 compiled
- 19 by you or under your direction and supervision?
- 20 A. Yes, they were.
- MR. FELDEWERT: Madam Chair, at this time
- 22 I would move the admission of Oxy Exhibit Number 12.
- MS. GERHOLT: No objection.
- 24 CHAIRMAN BAILEY: Then it is admitted.
- 25 (Oxy Exhibit 12 was admitted.)

- 1 MR. FELDEWERT: That concludes my
- 2 examination of this witness.
- 3 CHAIRMAN BAILEY: Do you have any
- 4 questions for this witness?
- 5 MS. GERHOLT: I do, Madam Chair. Thank
- 6 you.
- 7 CROSS-EXAMINATION
- 8 BY MS. GERHOLT:
- 9 Q. Good morning, Ms. Montgomery.
- 10 You were the individual who submitted the
- 11 C-108 on behalf of Oxy?
- 12 A. That's correct.
- Q. And according to the first page of the C-108,
- 14 Oxy has applied for a secondary recovery and pressure
- 15 maintenance; is that correct?
- 16 A. That's correct.
- Q. Why did Oxy apply for both?
- 18 A. I quess in discussions with -- when we were
- 19 filling out the application, what it is is a tertiary
- 20 recovery project. And I guess there were some
- 21 discussions between us and our legal counsel about which
- 22 one was the appropriate box. We checked them both. But
- 23 our intent is this is a tertiary recovery project.
- Q. I noticed on this form -- this is a Division
- 25 form; correct?

- 1 A. Yes.
- 2 Q. -- that there isn't a place for a tertiary
- 3 recovery project; is that correct?
- 4 A. That's correct.
- 5 Q. If you will educate me a little bit this
- 6 morning. My understanding about pressure maintenance is
- 7 that it retards the reservoir pressures and the actual
- 8 decline; is that correct?
- 9 A. I guess that's what it -- yes.
- 10 Q. Does pressure maintenance describe anything
- 11 else in terms of enhanced recovery?
- 12 A. As we saw on the exhibit that showed the
- 13 production, not only it retards the decline, you're going
- 14 to have quite an increase in production based from the
- 15 EOR project.
- 16 Q. That's the EOR project generally?
- 17 A. Yes.
- 18 Q. I'm interested in pressure maintenance. Does
- 19 that pressure maintenance piece help to increase it?
- 20 A. I mean -- yes, it will.
- 21 Q. Is it your understanding that a secondary
- 22 recovery project can include injection of natural gas or
- 23 other substances into a pool?
- A. Typically, when you refer to something as a
- 25 secondary recovery, it's your waterflood phase, after

- 1 your primary. And then it's called tertiary, when you
- 2 have your EOR project.
- 3 Q. And an EOR project can include injection of
- 4 other substances?
- 5 A. That's correct.
- 6 Q. And it is into a pool?
- 7 A. That's correct.
- 8 Q. And the Grayburg-San Andres is a pool?
- 9 A. That's correct.
- 10 Q. Just some more housekeeping questions for you.
- 11 Currently Oxy is operating the South Hobbs Unit. Is Oxy
- 12 reporting the monthly volumes and types of injectants on
- 13 the C-115; do you know?
- 14 A. I don't know, because I'm not in charge of
- 15 filing that. I assume so, but I wouldn't know that.
- 16 Q. Would that be possible for you to find out and
- 17 maybe relay back to your counsel?
- 18 A. Absolutely.
- 19 Q. The reason I'm asking is the Division does
- 20 have a reporting requirement of a C-115. And if Oxy is
- 21 not already doing it, would Oxy be willing to meet that
- 22 reporting requirement?
- A. I'm sure we would.
- Q. Okay. If I can now draw your attention to
- 25 Slide 15, the problem well?

- 1 A. Yes.
- 2 Q. Am I understanding from your testimony on
- 3 direct that Oxy reached out to both Chesapeake and
- 4 Chevron to ask for information from their well files if
- 5 their well files were more complete than the Division's;
- 6 is that correct?
- 7 A. Yes, we did.
- Q. And based upon that, Oxy has determined that
- 9 they need to run a cement bond log?
- 10 A. Correct.
- 11 Q. And the potential, depending upon what that
- 12 log results, that additional cement may need to be used
- 13 for this well?
- 14 A. Yes.
- 15 Q. My question is: Will either the cement bond
- 16 log, or if additional cement is needed, will those be
- 17 communicated to the Division?
- 18 A. Yes.
- 19 Q. Would that be in the form of a sundry, most
- 20 likely?
- 21 A. Most likely a sundry. I guess I'm not sure
- 22 how that works. We work with the District Office. But
- 23 it would have to be done to show that it's protective.
- Q. Slide 16, updating the AOR for future
- 25 injection wells, a point of clarification. Oxy is

- 1 willing to update the half-mile area of review. Is that
- when a different injection well is proposed by Oxy, or
- 3 just every five years to see if a new well by some other
- 4 operator has been drilled?
- 5 A. What we would propose is that this area of
- 6 review consist for five years because we've done an
- 7 extensive review. It took over a year. And we have
- 8 looked at every well. And there's very, very little
- 9 activity, other than Oxy, in the South Hobbs Unit.
- 10 So during that first five years, we would not
- 11 conduct another AOR. We would rely on this area of
- 12 review.
- 13 After that five years, if a well is drilled,
- 14 injectors -- even if it's in here, if it's after that
- 15 five years, what we would do is look at that half mile
- 16 again. If we've already submitted and have the area of
- 17 review data, that wouldn't be -- we would just submit a
- 18 statement saying that it's already been looked at in this
- 19 case and reviewed and that the area of review is good.
- If there's anything new in there, we would
- 21 certainly look at that and provide any information for
- 22 anything new in that area of review, is our proposal.
- 23 Q. Thank you for that clarification.
- Now, if I can draw your attention to Slide 18,
- 25 the currently TA'd wells?

- 1 A. Yes, ma'am.
- Q. There's 44 wells that are currently TA'd; is
- 3 that correct?
- A. Per the information we pulled in March, that's
- 5 correct.
- 6 Q. As you stated on direct, certain wells are on
- 7 a one-year test frequency and other wells are on five
- 8 years, and there's a variation between. Do you know why
- 9 certain wells are on a one-year test frequency?
- 10 A. I don't. It's set by the District Office.
- 11 I'm sure it has to do with how long a well is TA'd. But
- 12 I really don't know. It's set by the District Office.
- 13 Q. The District Office was provided a list of the
- 14 44 wells by Oxy. And in review of that list, there
- 15 appears that the wells that are on a one-year test
- 16 frequency have been TA'd for at least 20 years and one up
- 17 to 26 years. Does that surprise you or --
- 18 A. I wasn't aware of that.
- 19 Q. So given that at least one of these wells has
- 20 been temporarily abandoned for 26 years, does Oxy intend
- 21 to place pressure monitoring equipment on these 44 wells?
- 22 A. That is the intent, yes.
- Q. Does Oxy have a timeline for placing these
- 24 pressure monitors?
- 25 A. I have not discussed the timeline on those

- 1 yet. I guess we're going to see if it was approved and
- 2 how that works. And then I'm sure we will get a timeline
- 3 and discuss that with the District Office.
- 4 Q. And would allowing for the District Office to
- 5 have some input on that timeline be acceptable to Oxy?
- 6 A. Yes.
- 7 Q. I do have a question about the pressure
- 8 monitoring data. On direct, you stated that Oxy would be
- 9 willing to share that with the OCD for the Division's
- 10 review; is that correct?
- 11 A. Yes.
- 12 Q. How long is that information maintained by
- 13 Oxy?
- 14 A. I don't know the answer to that. I don't know
- 15 how long it's in our SCADA system.
- 16 Q. Obviously, you don't necessarily need to
- 17 maintain it for 40 years in the Division. But if there
- 18 is some sort of set time for maintenance, whether it's
- 19 five years or -- but to have it maintained for that
- 20 period so the Division could ask for it, maybe you'd be
- 21 able to provide your counsel with the time the SCADA
- 22 keeps that information?
- 23 A. We could do that.
- Q. Thank you. Then you also stated on direct
- 25 that you met with Chief Engineer Richard Ezeanyim at

- 1 least twice in regards to this application?
- 2 A. That's correct.
- 3 Q. Have you had an opportunity to review his
- 4 recommendations?
- 5 A. I have.
- 6 Q. Does Oxy object to any of those?
- 7 A. No, we do not.
- Q. My final question is in regards to Slide 23,
- 9 about the cement bond logs. My understanding is there
- 10 are times where cement can't be circulated to surface.
- 11 Is there -- I understand Oxy plans on circulating cement
- 12 to surface on all of these wells. Is there any
- 13 contingency plan in place if that fails to occur --
- 14 A. I don't --
- Q. -- since the cement bond logs won't be run?
- 16 A. I don't know of a contingency plan if
- 17 something is not circulated to surface. Certainly it's
- 18 our intention to circulate to surface.
- 19 Q. Of course Oxy does report to the Division on
- 20 C-103s that work has been done on a well; correct?
- 21 A. We do. And we also report when we run a
- 22 cement bond log.
- MS. GERHOLT: I have no further questions
- 24 for this witness.
- 25 CHAIRMAN BAILEY: Mr. Warnell?

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EXAMINATION

2 BY COMMISSIONER WARNELL:

1

- 3 Q. Good morning, Ms. Montgomery. I'd like to
- 4 continue along the same line that Ms. Gerholt was talking
- 5 about with cement bond logs. We talked a lot about
- 6 cement tops. Some of these wells we were looking at the
- 7 cement tops, they were drilled back in the '30s, '40s,
- 8 pretty old wells?
- 9 A. Um-hum.
- 10 Q. How did they determine cement top?
- 11 A. Well, if there was a temperature survey or
- 12 CBL, that's how the cement top was determined.
- But for purposes of this AOR, we used a
- 14 formula and derated it by -- as a 70 percent fill to give
- it a conservative nature on calculating the cement top.
- 16 Q. So when you refer to cement tops being a
- 17 certain depth, that's calculated cement top?
- 18 A. Some of them, yes, are calculated, if we did
- 19 not have a temperature survey or CBL indicating the
- 20 cement top.
- 21 Q. I assume that very few wells had temperature
- 22 surveys or CBLs?
- 23 A. I wouldn't know the exact number. But I did
- 24 review all of our AOR in just the South Hobbs Unit wells,
- 25 and we had over 77 percent that either had some type of a

- 1 log or were circulated.
- Q. What's the best method that Oxy uses today to
- 3 determine cement top?
- A. Well, on a new drill, we attempt, of course,
- 5 to circulate, and then you could calculate it or do a
- 6 cement bond log to determine the height of that cement.
- 7 Q. If your intentions were to circulate to the
- surface and, for some reason, you weren't able to
- 9 circulate to the surface, you could run a cement bond log
- 10 and determine that --
- 11 A. Yes.
- 12 Q. -- exact cement top?
- A. And we do. I've seen that in cases, that we
- 14 do.
- 15 COMMISSIONER WARNELL: Thank you. That's
- 16 all I have.
- 17 CHAIRMAN BAILEY: Mr. Balch?
- 18 EXAMINATION
- 19 BY COMMISSIONER BALCH:
- 20 Q. I'm also curious about cement bond logs.
- So on a new drill, is this something that's
- 22 done as a standard part of the wire line?
- A. A cement bond long?
- 24 Q. Yes.
- 25 A. If the cement is circulated, I don't believe a

- 1 cement bond log would be run, because you would see the
- 2 cement on surface.
- 3 Q. So you have a calculation on how much cement
- 4 it's going to take -- oh, I see. It comes out?
- 5 A. Right.
- 6 O. So if Rule 15 is stricken from the existing
- 7 rule, it sounds like, from Mr. Warnell's questions, that
- 8 some of these wells will never have a cement bond log?
- 9 A. That could be the case.
- 10 Q. And I imagine, under normal circumstances, you
- 11 don't really run repeat cement bond logs. But these are
- 12 wells that, in some cases, have been running for almost
- 13 80 years, and they run for another 40 or 60 years, and
- 14 during part of that, have some corrosive, acidic
- 15 components to the injectate. Do you think it would be
- 16 appropriate at any point to check the status of cement in
- 17 these injection wells?
- 18 A. I know that we -- there is a -- you can run a
- 19 cement bond log if there's a reason to run it, like if
- 20 you have some casing integrity issues.
- But you also have a problem running a cement
- 22 bond if you have a well that's cased and you have another
- 23 pipe behind that, and you run a cement bond, you're
- 24 really not going to see -- it's not going to give you the
- 25 reading that you want to see because you've got too much

- 1 behind that. You're not going to get a true reading.
- 2 So there are also issues with running cement
- 3 bonds on existing wells depending on how they are
- 4 configured.
- 5 Q. I would be more concerned with your production
- casing, the stuff that you're trying to seal off the
- 7 producing interval from everything above it. That would
- 8 be a case where you probably have one casing and one
- 9 cement?
- 10 A. On several of the wells.
- 11 Q. Right. So that portion of the well -- there's
- 12 also the part that would be vulnerable to any sort of a
- 13 leak of either CO2 or your produced gas injection or your
- 14 water. It might be vulnerable to corrosion.
- So if I got you correctly, you're saying if
- 16 you saw a problem with a well, that's when you would
- 17 check that, but you wouldn't do it as a matter of course
- 18 at the beginning of injection?
- 19 A. That's correct.
- 20 Q. Do you think it might be appropriate for this
- 21 sort of a long-term injection project to at least check
- the portion of the production casing above the injection
- 23 interval?
- 24 A. On the injectors?
- Q. Right, before you start injection.

- 1 A. If a well is circulated, I see no reason to
- 2 run a cement bond log. If the cement was lower, you
- 3 could run a cement bond log to determine the top. But on
- 4 a well that's already circulated, I don't really see an
- 5 issue with that.
- 6 Q. On a completion log, I guess -- I don't know
- 7 what you call it. But when these wells were drilled,
- 8 somebody would have noted if they had seen the cement
- 9 circulated to the top?
- 10 A. It's noted. And if a cement bond log was run,
- 11 because several were run, multiple bond logs are not
- 12 going to be beneficial, I don't believe.
- Q. Okay. I looked up the Big Al wells, the two
- 14 in Section 9. One of them looked like the casing had
- 15 been cut. Was that plugged back?
- 16 A. Yes, with cement.
- Q. So that's producing from Seven Rivers, and
- it's now isolated from the reservoir?
- The other one was in Group 4. It didn't have
- 20 that information, so I'm assuming it's producing from --
- 21 or has not been plugged back?
- 22 A. It's producing from the Seven Rivers, as well,
- 23 and has cast iron bridge plugs isolating it from the San
- 24 Andres.
- Q. Do you think that both of those wells are

- 1 going to be isolated from the injection program at the
- 2 South Hobbs Unit?
- 3 A. I do.
- 4 COMMISSIONER BALCH: Thank you. Those are
- 5 my questions.
- 6 CHAIRMAN BAILEY: I have a couple of
- 7 questions.
- 8 EXAMINATION
- 9 BY CHAIRMAN BAILEY:
- 10 O. The cement bond log not only shows top of
- 11 cement, but it also shows channeling behind the pipe,
- 12 doesn't it?
- 13 A. I believe that it does. I'm not overly
- 14 familiar with all the different things in the cement bond
- 15 log.
- Q. Even though the comments have been concerning
- 17 the top of the cement, the problem of channeling may also
- 18 arise for injectors, wouldn't it?
- 19 A. I don't know the answer to that. If you don't
- 20 have a good cement bond with your pipe. But -- I guess
- 21 it could. I don't know.
- 22 Q. A couple of other questions. The areas of
- 23 review where you did look at the cement bond logs, was
- 24 there only one problem well for those existing injector
- 25 wells? Or did your review indicate that there were other

- 1 issues that need to be addressed when this unit is
- 2 approved?
- 3 A. No. There was just that one well that was at
- 4 issue.
- 5 Q. The directional wells that will be drilled
- 6 from the produced gas injectors, will they be perforated
- 7 only under the city limit areas? Where would those perfs
- 8 be?
- 9 A. The perfs will be down in the San Andres,
- 10 which is, I think, like around 4,410-foot depth is the
- 11 only place you would have perforations.
- 12 Q. And the angles of each of those directional
- 13 wells will be varied according to what direction and the
- 14 length of that wellbore?
- 15 A. That is correct.
- 16 O. There was no discussion on the kind of cement
- 17 that is anticipated for the new drills. I understand
- 18 that there is an acid-resistant cement that is available.
- 19 Is that contemplated to be used for completions of these
- 20 new wells?
- 21 A. It will be used.
- 22 Q. There was one slide that showed water. I just
- 23 want to reconfirm that no fresh water will be used in
- 24 this unit?
- 25 A. That's correct.

- 1 Q. The slide that showed the incorrect legal
- 2 description that was on the order, was that -- with the
- 3 correction of the legal description, does that increase
- 4 or decrease the acreage that was described in that order?
- 5 A. I believe it increases it. But our next
- 6 witness will be able to talk to that.
- 7 CHAIRMAN BAILEY: Okay. I'll ask him
- 8 about that.
- 9 That's all I have. Thank you very much.
- Do you have any redirect?
- MR. FELDEWERT: I just have a couple.
- 12 REDIRECT EXAMINATION
- 13 BY MR. FELDEWERT:
- Q. On the area of review analysis issue, the
- 15 updating of that area of review, any new well, as you put
- 16 it, that was drilled by Oxy over the next five years, is
- 17 going to comply with all the design requirements that
- 18 have been approved for both its injectors and producers;
- 19 correct?
- 20 A. That's correct.
- 21 Q. So to the extent that you're adding wells to
- 22 the area of review, we know the design that's going to go
- into those and we know that they're going to be
- 24 adequately designed to prevent migration of fluids from
- 25 the injection interval -- outside of the injection

- 1 interval?
- 2 A. That's correct.
- 3 Q. With respect to the mechanical integrity
- 4 request, to the extent that you have a well that's on a
- 5 one-year frequency or a two-year frequency or something
- 6 like that, under your proposal that frequency is not
- 7 going to change until you get a pressure sensor device on
- 8 that well and it's connected to the SCADA system?
- 9 A. That's correct.
- 10 Q. So any concerns about the existing wells that
- 11 are on a more consistent frequency, you've got the
- 12 incentive, if this is granted, to get the pressure
- 13 sensors on those wells so you can avoid the frequencies
- 14 that are less than five years?
- 15 A. That's correct.
- Q. Commissioner Balch talked to you about the
- 17 cement bond logs issue. There's actually two parts to
- 18 this current rule; correct?
- 19 A. Yes.
- Q. The first one says, "Prior to placing a well
- 21 on injection, a cement bond log shall be run on said
- 22 well"; do you see that?
- 23 A. Yes.
- Q. Prior to placing a well on injection, the new
- 25 drills, you're going to be circulating cement; correct?

- 1 A. That's correct.
- Q. And if you don't get the correct circulation
- 3 to the surface, what are you going to do as part of your
- 4 design?
- 5 A. We typically run a cement bond log to see what
- 6 the top of the cement is.
- 7 Q. If you're successful in getting cement run to
- 8 the surface, there would be no reason to run a cement
- 9 bond log?
- 10 A. That's correct.
- 11 Q. The second part of this rule that's been left
- 12 over from the '70s, says, "Also, anytime the rods and/or
- 13 tubing are pulled from any producing well in the
- 14 project." Does that aspect of the rule make any sense to
- 15 you?
- 16 A. No.
- 17 Q. Is that -- I mean essentially, the way it's
- 18 written, it would result in running the same CBL on the
- 19 same well?
- A. That's correct, as written.
- 21 Q. In addition, any concerns about casing,
- 22 perhaps channeling, as I understand it, won't those be
- 23 picked up in your annual Bradenhead tests?
- A. Yes. Because any fluids that would migrate to
- 25 the surface or would cause pressure on the Bradenhead

- 1 will be caught in the Bradenhead testing.
- Q. So you have a mechanism in place already to
- 3 ensure, with your annual Bradenhead tests, that there are
- 4 no issues?
- 5 A. That's correct.
- 6 MR. FELDEWERT: I think that's all the
- 7 additional questions I have.
- 8 CHAIRMAN BAILEY: Then you may be excused.
- 9 Why don't we take a 10-minute break.
- 10 (A recess was taken.)
- 11 CHAIRMAN BAILEY: If you'd like to call
- 12 your next witness?
- MR. FELDEWERT: I would.
- I visited with Oxy about what they're
- 15 requesting with respect to Rule 15 in light of the
- 16 questions that you posed.
- And what they would like to see is that we
- 18 retain essentially the first clause, "Prior to placing
- 19 any well on injection, a cement bond log shall be run on
- 20 said well, unless cement has been circulated to the
- 21 surface," and then strike the remaining aspect of that
- 22 rule. I think in light of the questions, that makes
- 23 sense to us, and we hope that it makes sense to you.
- 24 With that said, we can move on to our last
- 25 witness.

- 1 CHAIRMAN BAILEY: Okay.
- MR. FELDEWERT: We'll call Mr. Pat Sparks.
- 3 PATRICK SPARKS
- 4 Having been first duly sworn, testified as follows:
- 5 DIRECT EXAMINATION
- 6 BY MR. FELDEWERT:
- 7 Q. Mr. Sparks, could you please state your full
- 8 name for the record and identify with whom you are
- 9 employed and in what capacity.
- 10 A. Yes. I'm Patrick Sparks. I'm employed by Oxy
- 11 as a landman.
- 12 Q. How long have you been with Oxy as a landman?
- 13 A. Forty-two years. Or as a landman, a little
- over 30 years, but with Oxy, 42.
- 15 Q. Prior to being a landman, what were your
- 16 responsibilities?
- 17 A. I came through the accounting and finance
- 18 group doing planning and budgeting.
- 19 Q. How long -- you said you've been a landman
- 20 with Oxy for 30 years. How long has your
- 21 responsibilities included the Permian Basin?
- 22 A. A little over 20 years.
- Q. Have you had the opportunity to previously
- 24 testify before the Oil Conservation Division?
- 25 A. Yes.

- 1 Q. And were your credentials accepted and made a
- 2 matter of public record?
- 3 A. Yes, sir.
- 4 MR. FELDEWERT: Madam Chair, I would
- 5 tender Mr. Sparks as an expert witness in petroleum land
- 6 matters.
- 7 CHAIRMAN BAILEY: Any objection?
- 8 MS. GERHOLT: No objection.
- 9 CHAIRMAN BAILEY: He is accepted.
- 10 Q. (By Mr. Feldewert) Mr. Sparks, are you
- 11 familiar with the land circumstances associated with the
- 12 South Hobbs Unit?
- 13 A. Yes, sir.
- Q. Are there any federal lands in the South Hobbs
- 15 Unit project area?
- 16 A. No, sir.
- 17 Q. Are there any state lands?
- 18 A. Yes, sir.
- 19 Q. If we pull out -- turn to what's been marked
- 20 as Oxy Exhibit Number 13. It's a rather large map. If
- 21 we pull that out, can you describe what it depicts?
- 22 A. This is a relatively current -- the most
- 23 current, that we've had access to, aerial photo of the
- 24 Hobbs area, showing the city of Hobbs and the surrounding
- 25 areas, with the South Hobbs project area being outlined

- in blue, and our North Hobbs Unit being outlined in
- 2 green.
- 3 Q. Let me ask you a question since we have this
- 4 map out. There was a discussion earlier about the change
- 5 that needed to be made to a description of the project
- 6 area?
- 7 A. Yes, sir.
- Q. Are you familiar with the changes that
- 9 occurred -- let me back up. Are you familiar with how
- 10 the area description needed to changed to conform with
- 11 the actual boundary of the South Hobbs Unit?
- 12 A. Yes, sir. During our review, we reviewed an
- 13 area and found a discrepancy in the description of the
- 14 previous area.
- 15 Q. Did that result in enlargement of the unit
- 16 area or a subtraction?
- 17 A. This was a voluntary unit, and there was one
- 18 operator that owned two 80-acre tracts that did not
- 19 ratify the unit. So those two 80-acre tracts came out of
- 20 the unit. Subsequently one of the 80-acre tracts was
- 21 included in the North Hobbs Unit.
- 22 Q. So the acreage description that has been
- 23 previously depicted as Slide 2 of Oxy Exhibit 11, does
- 24 that now accurately reflect the project area for the
- 25 South Hobbs Unit?

- 1 A. Yes, sir.
- 2 Q. This map that's been identified as Oxy Exhibit
- 3 13, does it also give a picture of the areas that were
- 4 subject to the notice requirements for this hearing?
- 5 A. Yes, sir.
- 6 Q. What essentially was your notice area?
- 7 A. We started our notice research prior to having
- 8 all the injection locations. So we took the approach of
- 9 anything within a half mile of the unit boundary, we put
- 10 on the notice list.
- 11 Q. So as it turned out, with the bubble map, you
- 12 were a little more expansive with your notice area than,
- 13 perhaps, the rule requires?
- 14 A. Correct.
- 15 Q. Basically, you went a half mile outside the
- 16 blue line that's shown on Oxy Exhibit 13?
- 17 A. That's correct.
- Q. Did you lead a team to do the land research
- 19 that was necessary to provide this notice?
- 20 A. Yes, sir.
- 21 Q. How many employees and how much time and
- 22 effort went into identifying and acquiring the
- 23 information you needed to send out the appropriate notice
- 24 for this hearing?
- 25 A. We worked a little over six months. I had two

- 1 full-time and one half-time people in the field at all
- 2 times, plus our internal people.
- 3 Q. For how long?
- A. A little over six months.
- 5 Q. Quite a project?
- 6 A. Town lots are tough.
- 7 Q. In your analysis if you had a tract that
- 8 touched within a half mile of the unit boundary, was that
- 9 tract included in your notice and data pool?
- 10 A. Yes. Anything within a half mile of the unit
- 11 boundary was in the data pool.
- 12 Q. Did you undertake efforts to identify the
- operators and lessees of record for each of those tracts?
- 14 A. Yes.
- 15 Q. And in the event it was an undeveloped tract,
- 16 did you undertake to determine all the mineral interests?
- 17 A. Yes.
- 18 Q. In addition, did you identify the surface
- owners for each of the proposed injection wells?
- 20 A. Yes, sir.
- Q. Did you then also identify all of the working
- 22 interest owners in the North Hobbs Unit?
- 23 A. Yes, sir.
- Q. And all of the working interest owners in the
- 25 South Hobbs Unit?

- 1 A. Yes, sir.
- Q. If I then turn to what's been marked as Oxy
- 3 Exhibit 14, is that an affidavit with the attached letter
- 4 providing notice of the hearing to the parties for whom
- 5 you were able to locate an address from your extensive
- 6 record search?
- 7 A. Yes, sir.
- Q. If I then look behind the letter in Exhibit
- 9 14, there begins a series of pages that are grouped by
- 10 various headings. Does that contain the list of all of
- 11 the effected parties that you identified in your notice
- 12 area?
- 13 A. Yes, sir.
- 14 Q. How many, roughly, different individuals or
- 15 companies were involved?
- 16 A. Roughly, 600.
- Q. And to the extent you had an address, was
- 18 notice provided to these individuals by Certified Mail?
- 19 A. Yes.
- Q. Did it include the New Mexico State Land
- 21 Office?
- 22 A. Yes, sir.
- Q. At the end, the last three pages of this
- 24 exhibit, there is a list of parties for whom you were
- 25 unable to find addresses; is that correct?

- 1 A. That's correct.
- Q. What efforts did you undertake to locate an
- 3 address for these individuals?
- A. We initially went through the county records
- 5 and abstract county records looking for their last known
- 6 addresses. We went through the tax records of Lea
- 7 County. We did Internet searches. We searched our
- 8 internal databases where we distribute revenues on the
- 9 North and South Hobbs Unit, as well as other properties
- in Lea County, and looked for them in there.
- 11 Q. Then with respect to this list of parties,
- 12 were they then -- for which you did not have an address,
- 13 were they then listed by name in the notice of the
- 14 hearing of this matter?
- 15 A. Yes, sir.
- 16 Q. If I turn to Oxy Exhibit Number 15, does that
- 17 contain an affidavit of publication in the Hobbs News Sun
- of this hearing that is preceded by a list of all of the
- 19 individuals for whom you were unable to find an address?
- 20 A. Yes, sir.
- Q. Now, with respect to -- there was a question
- 22 about royalty owners in the South Hobbs Unit. First off,
- 23 one of the royalty owners would be the State Land Office;
- 24 correct?
- 25 A. Correct.

- l Q. Did the State Land Office sign this voluntary
- 2 unit?
- 3 A. Yes, sir.
- 4 Q. Does the unit agreement provide or contemplate
- 5 and provide for this type of tertiary recovery operation?
- 6 A. Yes, sir.
- 7 Q. And in your opinion, is there a benefit to the
- 8 royalty owners in moving from a waterflood project to a
- 9 tertiary recovery project?
- 10 A. Yes, sir.
- 11 Q. If you were a royalty owner, would you want
- 12 Oxy to move to a tertiary recovery project here?
- 13 A. Yes, sir.
- Q. Why is that?
- 15 A. If our assumptions on the project are correct,
- 16 my royalty checks would then go up significantly.
- 17 Q. Is there -- with respect to the gas that's
- 18 being utilized for this particular project, is that being
- 19 wasted?
- 20 A. No, sir.
- 21 Q. It's being reinjected back into the reservoir?
- A. The gas will be reinjected back into the
- 23 producing unitized interval.
- Q. Thereby, subject to potential production in
- 25 the future, if operators deem that to be appropriate?

- 1 A. Correct.
- Q. Were Oxy Exhibits 13 through 15 compiled by
- 3 you or under your direction and supervision?
- 4 A. Yes, sir.
- 5 MR. FELDEWERT: Madam Chair, I move the
- 6 admission of Oxy Exhibits 13 through 15.
- 7 CHAIRMAN BAILEY: Any objection?
- 8 MS. GERHOLT: No, Madam Chair.
- 9 CHAIRMAN BAILEY: They are admitted.
- 10 (Oxy Exhibits 13 through 15 were admitted.)
- MR. FELDEWERT: That concludes my
- 12 examination of this witness.
- 13 CHAIRMAN BAILEY: Do you have any
- 14 questions?
- MS. GERHOLT: Not of this witness.
- 16 CHAIRMAN BAILEY: Commissioner Warnell?
- 17 COMMISSIONER WARNELL: I have no
- 18 questions.
- 19 CHAIRMAN BAILEY: Commissioner Balch?
- 20 COMMISSIONER BALCH: I always have one
- 21 question for every witness so they don't feel left out.
- 22 EXAMINATION
- 23 BY COMMISSIONER BALCH:
- Q. What percentage of the land mineral rights is
- 25 State Land Office?

- 1 A. It's right around 30 to 35 percent.
- 2 COMMISSIONER BALCH: Thank you.
- 3 EXAMINATION
- 4 BY CHAIRMAN BAILEY:
- 5 Q. My only question is: When was this aerial
- 6 photo taken?
- 7 A. I'm not sure of the exact date of the photo.
- 8 We prepared it -- it was probably last fall in the June,
- 9 July, August time frame.
- 10 Q. Okay. It's not 15, 20 years old or anything?
- 11 A. No, ma'am. We got the new photos when we
- 12 started our review.
- 13 CHAIRMAN BAILEY: That's all I have.
- 14 Any redirect?
- MR. FELDEWERT: No, Madam Chair.
- 16 CHAIRMAN BAILEY: You may be excused.
- 17 MR. FELDEWERT: Madam Chair, I have one
- 18 additional matter. Mr. Sparks testified to the list of
- 19 parties to whom Certified mailing was provided. As you
- 20 can imagine, given the number of people involved, the
- 21 return receipts were quite extensive, and to be honest
- 22 with you, are still being received as of this week.
- But what I have marked as Oxy Exhibit 16 is a
- 24 bound copy of the Certified receipts that the company has
- 25 received to date. And I think it would be prudent for

- 1 the company to actually have this admitted into the
- 2 record as Oxy Exhibit Number 16.
- I did not provide copies I think obvious
- 4 reasons for everybody, so that's why I did not previously
- 5 submit them to the Commission. I didn't want to kill any
- 6 more trees. But for the record, I would like to
- 7 introduce what has been marked as Oxy 16 as the Certified
- 8 receipts to date received by the company.
- 9 CHAIRMAN BAILEY: Any objection?
- MS. GERHOLT: No, Madam Chair. Oxy had
- 11 discussed this prior to the hearing. We knew it would be
- 12 an exhibit.
- 13 CHAIRMAN BAILEY: Commissioner Warnell or
- 14 Commissioner Balch, do you want your own personal copies?
- 15 COMMISSIONER BALCH: I have plenty of
- 16 stuff.
- 17 CHAIRMAN BAILEY: That's what I thought.
- 18 Let's admit that exhibit for the record.
- 19 (Oxy Exhibit 16 was admitted.)
- 20 MR. FELDEWERT: If I may approach, I'll
- 21 give this to the court reporter?
- 22 With the submission of that final exhibit,
- 23 which results in Oxy submitting a total of 17 exhibits to
- 24 the Commission, that concludes our presentation in this
- 25 case.

- 1 CHAIRMAN BAILEY: All right. Do you have
- 2 any closing that you would like to make?
- MS. GERHOLT: Yes, Madam Chair.
- As you have heard, Oxy is proposing a tertiary
- 5 project. And the Division does not object, because it
- 6 will prevent waste and protect correlative rights.
- 7 The Division also believes, with the
- 8 additional requirement as set forth in Richard Ezeanyim's
- 9 affidavit of testimony that was provided to the
- 10 Commission --
- 11 CHAIRMAN BAILEY: It has been admitted,
- 12 hasn't it?
- 13 MS. GERHOLT: I can move to admit it now
- 14 formally.
- 15 CHAIRMAN BAILEY: Yeah. Make sure --
- MS. GERHOLT: Okay. I would move Exhibit
- 17 A into the record.
- 18 MR. FELDEWERT: Oxy has no objection.
- 19 CHAIRMAN BAILEY: It is admitted.
- 20 (OCD Exhibit A was admitted.)
- MS. GERHOLT: Thank you.
- 22 Per the additional requirements set in Richard
- 23 Ezeanyim's written testimony, the Division believes human
- 24 health and safety would be protected, as required by
- 25 statute.

- In addition, the Division would request that
- 2 Oxy work with the District Office to determine the time
- 3 periods of holding the data that it gathers from SCADA in
- 4 order for OCD to review that, whether that's on a
- 5 five-year time period, less or more. But we'll leave it
- 6 to Oxy and the Hobbs District Office to decide upon that.
- 7 We would also request that Oxy report on
- 8 C-115s, as they're required to do per Rule 26 and as they
- 9 are currently doing for the South Hobbs Unit.
- 10 And finally, when action is taken on the
- 11 problem well, for Oxy to report that on a C-103 filed
- 12 with the District Office. Thank you, Madam Chair.
- MR. FELDEWERT: I really don't have a
- 14 closing. I had my opening statement.
- But on the points that were just raised by the
- 16 Division, Oxy has no problem with their requests. The
- only issue that arises, I believe, is with respect to the
- 18 filing of a C-103 for the potentially problem well. We
- 19 don't know if it's a problem well or not.
- 20 And the reason for that is because it's not a
- 21 well that's operated by Oxy. We have to work with the
- 22 current operator, Chevron. We would hope that there
- 23 would not be any issue there, but I don't think Oxy is in
- 24 a position to file the C-103. I guess my thought,
- 25 perhaps, would be that hopefully the companies could

- 1 visit with the District Office and decide how the
- 2 District Office would like to address whatever remedial
- 3 issues are necessary as they move forward with that study
- 4 and those efforts.
- 5 CHAIRMAN BAILEY: Okay.
- 6 MR. BRANCARD: I don't know whether
- 7 Mr. Feldewert doesn't have a closing, but it may be
- 8 useful if Oxy could simply list the relief they are
- 9 requesting from the Commission at this point, before
- 10 we --
- 11 COMMISSIONER BALCH: It's primarily in
- 12 Exhibit 3, and then there are some other issues that were
- 13 addressed by Richard Ezeanyim's testimony. I think
- 14 between those two, we could cover most of them.
- 15 MR. FELDEWERT: I would also add that it's
- 16 listed in the application. And as I said, I think the
- one modification has to deal with Slide 23 of Exhibit 12,
- 18 where Oxy has proposed a modification -- give me one
- 19 second here.
- Our proposal would be that Rule 15 be modified
- 21 as follows: The first clause be retained, and then after
- 22 that, that there would be a clause inserted that would
- 23 say, "unless cement has been circulated to the surface."
- 24 That would be what we would propose, and I probably read
- 25 it in an inartful form. And the remainder of that rule

- 1 be stricken as unnecessary, given the testimony that's
- 2 been submitted here today and yesterday.
- 3 CHAIRMAN BAILEY: Then we should
- 4 deliberate this case, and the results of those
- 5 deliberations can be announced in open session. And then
- 6 we will take up the remaining case, which could be
- 7 impacted, possibly, by the decisions made during the
- 8 deliberations made on this case. That's my
- 9 understanding.
- 10 So do I hear a motion from the Commission to
- 11 go into closed session for the sole and only purpose of
- deliberating Case Number 14981 in accordance with the
- 13 Open Meetings Act and the statute governing closed
- 14 sessions for commissions?
- 15 COMMISSIONER WARNELL: I make that motion.
- 16 COMMISSIONER BALCH: I will second.
- 17 CHAIRMAN BAILEY: All those in favor?
- So we will go into deliberations now and come
- 19 back out -- let's say we just come back into session at
- 20 1:00. That should give us adequate time to deliberate
- 21 and have lunch for everybody.
- (Whereupon the Commission went into executive session.)
- (A lunch recess was taken.)
- 24 CHAIRMAN BAILEY: Do I hear a motion for
- 25 the Commission to come back into open session in

- 1 accordance with New Mexico Statute 10-15-1 and the OCD
- 2 resolution on open meetings?
- 3 COMMISSIONER WARNELL: I make the motion.
- 4 COMMISSIONER BALCH: I second.
- 5 CHAIRMAN BAILEY: All those in favor?
- 6 The only thing discussed during our closed
- 7 session was deliberations on Case 14981.
- 8 And Counsel, would you please explain what the
- 9 Commission decided?
- MR. BRANCARD: Well, if you'll refer to
- 11 the application submitted by Occidental Permian Limited
- 12 Partnership. And I will also be referring to the
- 13 Prehearing Statement from the Oil Conservation Division.
- In the application, Occidental made a series
- of requests, and I will go through each of these in order
- 16 here. A, the Commission proposes to adopt the request to
- 17 expand the injection authority and to permit this as an
- 18 enhanced oil recovery project under its own authority,
- 19 which involves a tertiary project with injection of
- 20 carbon dioxide and reinjection of produced gases. The
- 21 produced gases shall be limited to those produced gases
- 22 that come from the field to which this order applies to.
- This order applies to the legal description of
- the unit that was provided at this hearing, which is a
- 25 different legal description than was provided in the

- 1 original Order R-4934.
- 2 Request B was to modify the surface injection
- 3 pressure limits set forth in the prior order. The
- 4 Commission adopts those pressure limits set forth in the
- 5 OCD statement for CO2 injection, water injection and
- 6 produced gas injection.
- 7 C was a request to increase limits on the
- 8 gas/oil ratio provided by Commission Rule 19.15.20.13.
- 9 The Commission adopts the position of the Division that
- 10 this gas/oil ratio will not apply to this project.
- D was a request to allow an exception to the
- 12 one-year commencement of injection required by
- 13 19.15.26.12(C). The Commission approves extending the
- 14 commencement of injection period to three years.
- 15 However, once injection has begun, the provision in that
- 16 rule that provides that any one-year period of continuous
- 17 noninjection will result in a termination of injection
- 18 authority remains.
- 19 E, the request was to provide that for any
- 20 injection well covered by this application that commences
- 21 operations within five years after the date of the order,
- 22 that the area of review will be limited to a statement
- 23 from Oxy that there either have been no substantive
- 24 changes to the area of review information in the
- 25 application or a statement describing such substantive

- 1 changes. This is provided in more detail in the North
- 2 Hobbs Unit Order R-6199. The Commission approves this
- 3 request for five years.
- 4 F was a request that the frequency for
- 5 mechanical integrity tests required for temporarily
- 6 abandoned wells be five years for those wells that are
- 7 equipped with real time pressure monitoring devices. The
- 8 Commission approves this request, which would come into
- 9 play after such real time pressure monitoring devices are
- 10 installed on each well.
- 11 G, the request was to modify to set a new
- 12 packer setting depth requirement to allow for the packer
- to be set anywhere above the uppermost injection
- 14 perforations or casing shoe, provided the packer was set
- 15 below the top of the Grayburg formation. Commission
- 16 approves this request.
- 17 H, the request was to modify or eliminate the
- 18 cement bond requirement provided in the prior order, The
- 19 Commission approves a cement bond log requirement that
- 20 reads the same as that found in Rule 15 under the prior
- 21 order, except that the second clause of the first
- 22 sentence is deleted, that is, beginning at the words,
- 23 "Also at anytime," and extending to the end of that
- 24 sentence is deleted.
- I, Occidental requests approval of the

- 1 additional injection wells. The Commission approves
- 2 those additional injection wells that are identified in
- 3 the C-108 and the application.
- J was a request that this project qualify for
- 5 the authority for the recovered oil tax rate. The
- 6 Commission finds that this project does qualify for that
- 7 tax rate status, and the proper findings shall be placed
- 8 in the order that would justify such finding by the
- 9 Commission.
- In addition, if you'll go to the OCD
- 11 statement, page 6, the Commission proposes to adopt the
- 12 additional requirements listed as 3, 4, 5, 6 and 7. In
- 13 addition, the Commission proposes the following
- 14 additional conditions: First, that Occidental work with
- 15 the local OCD District Office on providing access for the
- 16 Occidental records termed SCADA in this application, and
- on a schedule for the retention of those records.
- 18 Second, that in the annular fluid provided in
- 19 wells, there will be biocides and corrosion inhibitors.
- Third, the well identified in the OCD
- 21 statement, the Aradora Well Number 3, the Commission
- 22 proposes that no injection be allowed within a half mile
- 23 of this well until and unless Occidental provides a
- 24 cement bond log that shows adequate cement access or that
- 25 remedial cement work is done to adequately confine the

- 1 injectant to the injection zone.
- 2 Fourth, that Occidental maintain and update
- 3 its hydrogen sulfate contingency plan in accordance with
- 4 the hydrogen sulfide rule of the Commission.
- 5 Have I captured everything?
- 6 CHAIRMAN BAILEY: Yes, you have.
- 7 Would you like to discuss the draft orders and
- 8 how you would like for that to be presented and at what
- 9 date?
- MR. BRANCARD: I would request that
- 11 applicants submit a draft order within 30 days, okay?
- MR. FELDEWERT: Yes.
- 13 CHAIRMAN BAILEY: As a new order, or
- 14 as --
- MR. BRANCARD: The Commission is
- 16 requesting that this be done as a new order --
- 17 MR. FELDEWERT: So not a continuation of
- 18 the prior orders?
- MR. BRANCARD: -- approving this as an
- 20 enhance oil recovery project.
- MR. FELDEWERT: May I ask a couple of
- 22 questions about that? So that would include, as part --
- 23 the existing order, of course, has Rules 1 through,
- 24 whatever it is, 17. That would be part of any new order,
- 25 as well, in addition to the modifications that have been

- 1 discussed here today? That's the question I have.
- 2 CHAIRMAN BAILEY: The pertinent paragraphs
- 3 should be retained.
- 4 MR. BRANCARD: To the extent that a number
- 5 of those rules have been superceded by more general rules
- 6 of the Commission, it would seem to be unnecessary. The
- 7 Commission now has a Rule 26 regarding injection, et
- 8 cetera. A lot of what was in that rule predated --
- 9 MR. FELDEWERT: I did, yeah. Let me think
- 10 about that, and I'll look at it.
- MR. BRANCARD: Okay.
- 12 CHAIRMAN BAILEY: And the attorneys can
- 13 discuss this outside of the Commission hearing as to the
- 14 form of that order.
- 15 MR. FELDEWERT: That would be great.
- 16 Can we ask for a clarification on your
- 17 decision, since I'm going to be putting together an
- 18 order?
- 19 My question relates to -- I think it dealt to
- 20 allow for administrative approval of additional injection
- 21 wells, so it was our relief I.
- The relief we requested was to allow for the
- 23 administrative approval of additional injection wells
- 24 into the Grayburg and San Andres formation underlying the
- 25 South Hobbs Unit project area pursuant to Rule 8 of the

- 1 special rules.
- 2 MR. BRANCARD: I think what our
- 3 conversation was was that the rules that you have -- the
- 4 wells you have specifically identified in this
- 5 application are approved and that the Rule 8 can continue
- 6 over or words effective of Rule 8 can continue over into
- 7 the new order.
- 8 MR. FELDEWERT: I think my assumption is
- 9 that the -- I think as it's currently crafted, it may
- 10 only say -- well, maybe it doesn't say "water," but I
- 11 think we had an issue there. So what you're saying, Rule
- 12 8 as presently encompassed within the governing order
- would carry over into the new order, if I'm understanding
- 14 you.
- MR. BRANCARD: Rephrase it. There's a
- 16 reference to an outdated Commission rule in that rule,
- 17 which you would change to specify the new Commission
- 18 rule.
- MR. FELDEWERT: Then with respect to the
- 20 cement bond log issue and the modification of Rule 15, if
- 21 I'm understanding you, the first clause is retained and
- the remaining aspect of that rule would be struck?
- 23 MR. BRANCARD: No. The remaining aspect
- 24 of that first sentence.
- MR. FELDEWERT: Okay.