STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 13,961

APPLICATION OF CHEVRON USA, INC., FOR AMENDMENT OF DIVISION ORDER NO. R-4442, AS AMENDED, TO AUTHORIZE A TERTIARY RECOVERY PROJECT BY THE INJECTION OF CARBON DIOXIDE IN ITS VACUUM-GRAYBURG-SAN ANDRES PRESSURE MAINTENANCE PROJECT AREA, APPROVAL OF AMENDMENT OF THE COOPERATIVE WATER INJECTION AGREEMENT BETWEEN THE CENTRAL VACUUM UNIT AND THE VACUUM-GRAYBURG-SAN ANDRES UNIT, LEA COUNTY, NEW MEXICO

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID K. BROOKS, Jr., Legal Examiner WILLIAM V. JONES, Jr., Technical Examiner

August 23rd, 2007

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID K. BROOKS, Jr., Legal Examiner, WILLIAM V. JONES, Jr., Technical Examiner, on Thursday, August 23rd, 2007, at the New Mexico Energy, Minerals and Natural Resources Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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APPEARANCES

FOR THE APPLICANT:

HOLLAND & HART, L.L.P., and CAMPBELL & CARR 110 N. Guadalupe, Suite 1 P.O. Box 2208 Santa Fe, New Mexico 87504-2208 By: WILLIAM F. CARR

* * *

WHEREUPON, the following proceedings were had at 1:20 p.m.:

EXAMINER BROOKS: Okay, we have a full staff again now, and at this time we will call Case Number 13,961, Application of Chevron USA, Inc., for amendment of Division Order Number R-4442, as amended, to authorize a tertiary recovery project by the injection of carbon dioxide in its Vacuum-Grayburg-San Andres Pressure

Maintenance Project Area, approval of amendment of the cooperative water injection agreement between the Central Vacuum Unit and the Vacuum-Grayburg-San Andres Unit, Lea County, New Mexico.

Call for appearances.

MR. CARR: May it please the Examiner, my name is William F. Carr with the Santa Fe office of Holland and Hart, L.L.P. We represent Chevron USA, Inc., in this matter, and I have three witnesses.

EXAMINER BROOKS: You may proceed.

MR. CARR: Mr. Examiner, just by way of an introductory statement, as you may be aware, back in 1972 the Division approved waterflood operations in the Vacuum-Grayburg-San Andres Unit. That was done by Order R-4442. In two thousand and -- and waterflood operations have been conducted in the unit area since approval in 1972.

In 2001, Texaco appeared before the OCD. At that

time they were the unit operator, and they obtained an order, R-4442-A, which authorized implementation of a tertiary recovery project in this unit by injection of ${\rm CO}_2$. The order was never acted on by Texaco and expired of its own terms.

The property has now been acquired by Chevron, and they seek approval now to do basically what was approved back in 2001. They seek authorization to implement a tertiary recovery project. They're looking at the same area that was involved in the Texaco case, they're looking for the same pressure increases that were approved in that case, and this Application covers the same wells that were addressed in the case back in 2001. Basically we seek to reinstate that order.

Since that order, several things have happened. There have been wells drilled and wells plugged, and we have submitted to you and filed with our Application the original C-108. Our witnesses will show that they have checked that and confirmed that the data in the original C-108 remains accurate.

We also filed with our prehearing statement some supplemental information. That information makes everything that is now before you complete. And so we believe we have all information required before the Division at this time.

Since the original approval, several other things happened that, as we started working on this surprised us. We discovered there had been some administrative orders entered that approved the addition of wells to this project, additional injection wells. When we were here a week ago we had one. We now have three.

But what happened was, applications were filed to add injection wells to the project -- they were approved by administrative orders -- and these orders referenced a tertiary recovery project. There is none. These orders referenced the higher pressure that was authorized in those original cases.

But you need to know, these wells have never been used for anything but water injection. And the original waterflood order authorized the addition, you know, of additional injection wells to the project by administrative process.

And so in addition to just reinstituting the prior authority that this Division gave Texaco, we are going to ask the Division to clarify those administrative orders, recognizing they were only for waterflood operations. And then beyond that, if these wells are needed for CO₂ injection, there will be separate administrative application filed at a later date, after you dispose of the Application that is pending before you.

I don't have the docket before me. We had also 1 -- we're going to request approval of the incentive tax 2 3 rate under the Enhanced Oil Recovery Act. And when you called the case I did not hear that. 4 EXAMINER BROOKS: And I don't believe that there 5 is a case for that set --6 7 MR. CARR: Okay. EXAMINER BROOKS: -- because --8 MR. CARR: And what we would do, Mr. Examiner, if 9 it's acceptable to the two of you, is, we do have that 10 application as our last exhibit, and we would go ahead and 11 present that. And then if, in fact, we need that 12 authorization we would file a separate application and ask 13 14 that you incorporate this record at that time. EXAMINER BROOKS: Okay, I would think that would 15 16 be reasonable under the circumstances. MR. CARR: And I have three witnesses who need to 17 18 be sworn. EXAMINER BROOKS: Okay. Hopefully the time when 19 you will need that will never come. 20 MR. CARR: Hopefully it never will. We were 21 concerned, though, that if we didn't ask for it, that might 22 be the fact that would mean someday we would need it, so... 23 EXAMINER BROOKS: Okay, will the witnesses stand 24 and state their names? 25

1	MR. PEQUEÑO: My name is Daniel Pequeño.
2	MR. INGRAM: I'm Scott Ingram.
3	MR. BRUGGER: I'm Brent Brugger.
4	EXAMINER BROOKS: Please swear the witnesses.
5	(Thereupon, the witnesses were sworn.)
6	EXAMINER BROOKS: Call your first witness.
7	MR. CARR: At this time, Mr. Examiner, we would
8	call Daniel Pequeño.
9	<u>DANIEL PEQUEÑO</u> ,
10	the witness herein, after having been first duly sworn upon
11	his oath, was examined and testified as follows:
12	DIRECT EXAMINATION
13	BY MR. CARR:
14	Q. Would you state your full name for the record,
15	please?
16	A. Daniel Pequeño. It spells out as P-e-q-u-e-ñ-o.
17	Q. Mr. Pequeño, where do you reside?
18	A. Midland, Texas.
19	Q. By whom are you employed?
20	A. Chevron.
21	Q. And what is your position with Chevron?
22	A. I'm a land representative on the Vacuum team.
23	Q. Have you previously testified before the New
24	Mexico Oil Conservation Division?
25	A. Yes, I have.

1	Q. And how long ago was that?
2	A. In the late 1990s when I used to work with Mobil.
3	Q. Would you summarize your educational background
4	and work experience for the Examiners?
5	A. Okay, I have a BBA in marketing from Texas A&I
6	University, I am a certified professional landman and also
7	an environmental site assessor.
8	Q. And you're the landman who has been working on
9	this project for Chevron?
10	A. That is correct.
11	Q. Are you familiar with the Application filed on
12	behalf of Chevron in this case?
13	A. Yes, sir.
14	Q. And are you familiar with the status of the lands
15	in the Vacuum-Grayburg-San Andres Unit area?
16	A. Yes, I am.
17	MR. CARR: We tender Mr. Pequeño as an expert
18	witness in petroleum land matters.
19	EXAMINER BROOKS: He is so qualified.
20	Q. (By Mr. Carr) Mr. Pequeño, would you briefly
21	summarize what it is that Chevron seeks with this
22	Application?
23	A. Today we are seeking an amendment of Division
24	Order R-4442, dated November 27, 1972. This order approved
25	the Vacuum-Grayburg-San Andres Unit excuse me, San

Andres pressure maintenance project in the Vacuum-Grayburg-San Andres Unit.

We want to amend this order to authorize the implementation of a tertiary recovery project by the injection of carbon dioxide in the Vacuum-San Andres Unit area.

And to do this, we want to increase the maximum surface injection pressure for water in certain injection wells to 1850 pounds, provided this pressure can be increased following step-rate tests, and secondly to provide for the differences in density of CO2 by permitting the injection of CO₂ to be conducted at a maximum of 350 pounds -- p.s.i., above the allowed surface water injection pressure, not to exceed the 1850 pounds mentioned before, and pursuant to those step rate tests.

Now as Mr. Carr alluded earlier, this project was previously approved for CO2 injection when the unit was owned by Texaco Exploration and Production, Inc., under Order R-442-A [sic], and what Chevron is proposing today is the same project.

Q. Mr. Pequeño --

EXAMINER BROOKS: Excuse me, the order number --What was the order number of the 1972 order?

THE WITNESS: R-442 [sic].

EXAMINER BROOKS:

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THE WITNESS: Yes, sir. 1 EXAMINER BROOKS: Just 442, okay. 2 3 THE WITNESS: Three 4s and a 2. EXAMINER BROOKS: Thank you. 4 (By Mr. Carr) Mr. Pequeño, Chevron will call an 5 Q. engineering witness to present the testimony concerning the 6 7 request to increase pressure; is that correct? That's correct. 8 Α. 9 Let's go to what has been marked Chevron Exhibit 10 Number 1. Would you identify that and review it for Mr. Brooks and Mr. Jones? 11 The Exhibit Number 1 -- does everybody 12 13 the Grayburg-San Andres in Lea County, New Mexico. 14 15

have it? -- is the unitized acreage in the Vacuum field for In the map you see in tan -- either gold or tan -- the units owned by Chevron. Slated in the slight blue or greenish is the Phillips East Vacuum. And then you have your State 35 Unit in the middle. Then the other waterflood units are surrounding the map there.

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The three units that Chevron owns, the one that we're proposing the CO2 project for is the one in the And the CO₂ projects currently approve an middle. operating -- active operations, is the East Vacuum Unit, the Central Vacuum Unit, operated by Chevron, and the State Unit 35.

On this exhibit we show the State 35 Unit as 1 Q. being operated by Phillips? 2 Yes, we need to make a note here that the 3 4 operator, the current operator of that unit, is McGowan Working Partners -- Working Interests, Incorporated. 5 Now the plat shows Phillips, but when you 6 0. 7 provided notice you did notify McGowan, did you not? Yes, we provided proper notice to McGowan. 8 Is what Chevron seeks in this case consistent 0. 10 with the CO₂ floods that are authorized in offsetting CO₂ 11 floods? That is correct. 12 Α. Could you identify what has been marked as 13 Q. 14 Chevron Exhibit 2? Okay, Exhibit 2 is an amendment to the 15 16 cooperative water injection agreement for CO2. This 17 Exhibit 2 is -- it governs the cooperative water injection between the Central Vacuum Unit and the Vacuum-Grayburg-San 18 Andres Unit for the leaseline wells. 19 And as we have stated before, the Central Vacuum 20 Unit is under CO -- it's an approved CO2 that was done back 21 22 by Order R-5530-E, dated April 30th, 1997. And both of those units are operated by Chevron. 23 This amendment really is just to amend the 24 Q. 25 leaseline agreement to authorize the injection of CO2; is

that not --1 Α. That is correct, yes. 2 And the agreement -- this very same amendment was 3 Q. approved back by Order R-4442-A for Texaco? 4 5 Yes, sir, under Finding Number 8 under that order. 6 MR. CARR: Mr. Examiner, the order approving this 8 leaseline injection agreement is the order that terminated 9 of its own -- expired of its own terms. And so the reason 10 we're asking you to re-approve that is just to be sure that 11 we have everything back in place at the conclusion of this 12 hearing. 13 0. (By Mr. Carr) Mr. Pequeño, when was the Vacuum-14 Grayburg-San Andres unit formed? 15 Α. Okay, it was formed on -- Let's see, the unit was approved by Division Order R-4433, dated November 27th, 16 17 1972, and is operated by Chevron. Q. And when did waterflood operations commence? 18 Waterflood operations have been conducted in the 19 20 unit area since 1973, pursuant to that Division Order R-4442. 21 Does the unit agreement provide for CO2 flooding? 22 Q. Yes, it does. 23 Α. And is Chevron Exhibit Number 3 a copy of that 24 Q.

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unit?

1	A. That is correct.
2	Q. How many acres are in the unit area?
3	A. 1486 acres.
4	Q. And what is the character of the land in the unit
5	area?
6	A. They're 100-percent state lands.
7	Q. And does Chevron own 100 percent of the working
8	interest in the unit?
9	A. That is correct.
10	Q. Is Chevron Exhibit Number 4 an affidavit
11	confirming that notice of this hearing has been provided in
12	accordance with the Rules of the Oil Conservation Division?
13	A. That is correct.
14	Q. And to whom was notice provided?
15	A. To all leaseholders within a half a mile of a
16	proposed injection well, the surface owner of each tract on
17	which an injection well is to be located, and all offset
18	operators.
19	Q. Could you identify Chevron Exhibit 5?
20	A. Exhibit 5 is a waiver letter from the State Land
21	Office.
22	MR. CARR: And Mr. Examiner, with the original
23	mailout we did not notify the Commissioner of Public Lands.
24	When the case was continued we did, but it was one day late

just because of the way the timing worked out, and so we

have obtained a waiver from the Commissioner of Public 1 Lands, just to clarify that they are noticed and do not 2 oppose the Application. 3 4 EXAMINER BROOKS: Thank you. (By Mr. Carr) Mr. Pequeño, will Chevron call 5 Q. 6 geological and engineering witnesses to review the 7 technical portions of the case? 8 Α. That is correct. 9 Q. Were Chevron Exhibits 1 through 5 either prepared by you, or have you reviewed them and can you confirm their 10 accuracy? 11 Α. 12 Yes. MR. CARR: At this time we would move the 13 14 admission into evidence of Chevron Exhibits 1 through 5. 15 EXAMINER BROOKS: 1 through 5 are admitted. That concludes my direct examination 16 MR. CARR: 17 of Mr. Pequeño. 18 **EXAMINATION** BY EXAMINER BROOKS: 19 20 Okay, on this list of people that you notified do 21 you have the information available as to what the 22 relationship of each one is to the -- what the reason is why each one was given notice? 23 24 A. They're listed on -- let me --25 MR. CARR: We have -- Mr. Examiner, we have the

1	list, obviously. I'd be happy to, if you want, provide
2	after the hearing a revised list that just ties their names
3	to individual tracts and units.
4	EXAMINER BROOKS: That would be helpful
5	MR. CARR: Okay. You know, we
6	EXAMINER BROOKS: that will speed matters up.
7	MR. CARR: It will, and We offset the Central
8	Vacuum Unit and things that are operated by Chevron, but we
9	have checked to confirm that when there are differences in
10	ownerships they've been notified, and I will provide you
11	after the hearing I'll go back and from our notes send
12	you just a revised Exhibit A that identifies those interest
13	owners by tract.
14	EXAMINER BROOKS: That would be acceptable.
15	MR. CARR: Ókay.
16	EXAMINER BROOKS: Okay, I have no other questions
17	i e e e e e e e e e e e e e e e e e e e
	for this witness?
18	for this witness? Mr. Jones?
18	Mr. Jones?
18 19	Mr. Jones? EXAMINATION
18 19 20	Mr. Jones? EXAMINATION BY EXAMINER JONES:
18 19 20 21	Mr. Jones? EXAMINATION BY EXAMINER JONES: Q. I have only one question
18 19 20 21 22	Mr. Jones? EXAMINATION BY EXAMINER JONES: Q. I have only one question A. Okay.

Q. -- 100-percent operated -- owned and operated 1 by --2 That's right. Chevron is the sole operator. A. 3 0. And then you still want the leaseline agreement 4 with the Central Vac for those injection wells, right? 5 6 Α. Yes. And what about any leaseline agreements for 7 Q. 8 injection wells with the State 35 for the West Vacuum Unit? You're not going to put any injection wells to contain that 9 CO₂ along the lease line? 10 They are in place, those --11 Α. Oh, they are? 12 Q. -- are the -- Yes. They're not covered in this, 13 Α. they're covered under a different leaseline agreement. 14 15 Q. Okay. 16 A. Uh-huh. And that doesn't need to be restated or anything? 17 Q. Okay. 18 Α. No. No --19 Q. 20 Α. No. EXAMINER JONES: Thank you. 21 EXAMINER BROOKS: 22 Thank you. MR. CARR: At this time, Mr. Examiner, I would 23 call Scott Ingram. He's our geological witness. 24 25 EXAMINER BROOKS: Okay.

1 SCOTT M. INGRAM, 2 the witness herein, after having been first duly sworn upon 3 his oath, was examined and testified as follows: DIRECT EXAMINATION 4 BY MR. CARR: 5 Would you state your name for the record, please? 6 0. 7 Yes, Scott McCoy Ingram. Α. Mr. Ingram, where do you reside? 8 Q. 9 Α. In Midland, Texas. 10 By whom are you employed? Q. Chevron. 11 Α. And what is your position with Chevron? 12 Q. 13 I'm a senior staff geologist and Vacuum project Α. 14 manager. Have you previously testified before the Oil 15 Q. Conservation Division? 16 17 A. No, I haven't. 18 Q. Could you summarize for the Examiners your 19 educational background and then review your work 20 experience? Yes, I've got a bachelor's in science in geology 21 22 from Texas Tech University in 1979, and I've worked since 23 then for Gulf, Chevron, ChevronTexaco, and now Chevron 24 again, 28 years in the industry, 20 of which has been in 25 part or in full in assignments related to southeast New

1 Mexico. Are you familiar with the Application filed in 2 Q. this case on behalf of Chevron? 3 Α. Yes, I am. 4 Are you familiar with Chevron's plans to 5 0. implement a tertiary recovery project in a portion of the 6 7 Vacuum-Grayburg-San Andres Unit? 8 Α. Yes, I am. Have you reviewed the C-108 Application that was 9 Q. filed in 2001 by Texaco? 10 Α. Yes, I've reviewed that, in particular the 11 geological components and the well-data sheets, and I was a 12 part of preparing the subsequent information for this 13 Application. 14 Based on your review, was the data that was filed 15 Q. by Texaco in 2001 accurate? 16 17 A. Yes, it is. 18 Q. And you're going to be presenting, actually, some of the same exhibits that were used by Texaco at that time? 19 20 Α. That's correct. And based on your review, do they accurately 21 Q. depict the formation and reservoir? 22 Α. Yes, they do. 23 And you have made a geological study on your own 24

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of this area?

20 1 A. Yes, I have. And you're prepared to share the results of that 2 Q. work with the Commission? 3 A. 4 Yes. MR. CARR: We tender Mr. Ingram as an expert in 5 6 petroleum geology. 7 EXAMINER BROOKS: He is so qualified. MR. CARR: Mr. Ingram, could you refer to what 8 has been marked Chevron Exhibit Number 6, identify it and 9 review it for the Examiners? 10 11 Yes, this is the type log section for the Vacuum-Α. 12 Grayburg-San Andres Unit. It's got the depth references 13 that are included in the unit agreement. It includes portions of the Grayburg and San Andres formations making 14 15 up the unitized interval. It's roughly 900 foot in 16 thickness, and it has stratigraphic markers in it of the 17 Grayburg and San Andres. 18

- And based on your review and as you'll show with Q. later exhibits, these are the same zones that really go across this area; isn't that correct?
 - Α. Yes.

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Q. Let's go to what has been marked -- Before we go to that, why don't you describe for the Examiner generally the characteristics of the Grayburg-San Andres formation in the area?

A. Okay, the Grayburg and San Andres sections here are cyclical carbonate deposits with some evaporites, some sandstones. They were deposited on a Permian/Guadalupianage shelf margin that we call the Northwest Shelf. The terminate as you go to the south into the Delaware Basin and transition into their basinal equivalents. They're stratigraphically continuous along the strike and terminate, as I said, as you go into the -- dip into the Basin.

- Q. Let's go to Exhibit 7. Would you identify and review that?
- A. Okay, this is a structure map on top of the San Andres. It was chosen -- it's in the middle of the unitized interval. It's an easily correlatable marker, so it's very easy to correlate, especially along strike.

You can see that we're at the structural crest, the localized structural crest in the east portion of the Vacuum-Grayburg-San Andres Unit, at subsea depths of about 200 foot subsea, and as you go to the southwest we fall quickly into the Delaware Basin, and the same horizon is encountered at subsea depths as deep as 800-foot subsea.

Contour interval is 25 feet.

- Q. And this is an exhibit that was presented by Texaco at the last hearing?
 - A. That is correct.

Q. Do you believe this accurately depicts the structure in the area of interest?

- A. Yes, I've created similar structure maps, and they show the same character.
- Q. Let's go to what has been marked Chevron Exhibit
 Number 8. Would you just identify this, please?
- A. Yes, this is just a cross-section index map. It shows an east-west cross-section, which I'll call a strike section, along the strike of the horizons, and then a north-south section, which is a dip section.
- Q. Okay, let's go to those cross-sections. Let's go to Chevron Exhibit 9, the east-west structural cross-section.
- A. This is a structural cross-section reflecting that as we go to the east, we're gaining on structure.

 I've chosen to highlight the Grayburg dolomite, just to make the relative structure more obvious from a greater distance.

You can see on the left of each well trace there's the gamma-ray log, and on the right is a porosity log. We've highlighted the porosity above 6 percent to show that there's quite a bit of net porosity through the section, fairly continuous porosity, a lot of net pay, and it makes for a very good flood and CO₂ target.

Q. Let's go, then, and look at the north-south

structural cross-section, Exhibit Number 10.

A. This exhibit, again, is a north-south structural cross-section. It starts at the left, the northern end of the cross-section, actually in the Central Vacuum Unit which we're contiguous with, and you see the dip as we go to the south or to the right of the cross-section, as we dipped into the Basin.

The porosity is again quite continuous through two-thirds of this cross-section. As you see as we get to the right, as we start to fall into the Delaware Basin, the porosity becomes less continuous, the reservoir quality degrades.

- Q. These two cross-sections show continuity of the reservoir across the area of interest?
 - A. Yes, they do.
- Q. And it demonstrates a good candidate for a ${\rm CO_2}$ flood?
 - A. A very good candidate for a CO₂ flood.
- Q. And why does Chevron seek to implement the ${\rm CO}_2$ flood at this time?
- A. Well, because we've seen very good response to ${\rm CO_2}$ in the Central Vacuum unit adjacent to us. This is essentially a stepout or a continuation of that ${\rm CO_2}$ project, and it's continuous with our -- it's a core property, and this is consistent with our corporate

1	strategy to develop tertiary reserves.
2	Q. Mr. Ingram, will Chevron call an engineering
3	witness to review the other portions of this case?
4	A. Yes, we will.
5	Q. Were Exhibits 6 through 10 either prepared by you
6	or have you reviewed them and can testify to their
7	accuracy?
8	A. Yes, that is correct.
9	MR. CARR: May it please the Examiners, at this
10	time we would move the admission into evidence of Chevron
11	Exhibits 6 through 10.
12	EXAMINER BROOKS: 6 through 10?
13	MR. CARR: Yes, sir.
14	EXAMINER BROOKS: 6 through 10 are admitted.
15	MR. CARR: And that concludes my direct
16	examination of Mr. Ingram.
17	EXAMINER BROOKS: I don't believe I have any
18	questions at this time. I'll let Mr. Jones proceed.
19	EXAMINATION
20	BY EXAMINER JONES:
21	Q. I'll just keep it brief here. Is the San Andres
22	the main pay out here?
23	A. Yes, it is. There's reservoir-quality rock in
24	the Grayburg section, but the predominant volume of
25	hydrocarbon and reservoir-quality rock is in the San Andres

section.

- Q. That bottom part of the San Andres, is it -- does it have a long oil-water contact?
- A. We're actually studying that currently. We believe that there is a transition zone that actually continues beneath the current unitized interval, and we're evaluating proposing extending the unitized interval in this unit.
 - Q. So right now the unitized interval only goes --
 - A. The unitized interval goes to a depth of 4809 --
 - Q. Oh.
- A. -- in the type well, which is about 800 foot subsea, and we think that there's hydrocarbon slightly beneath that, so we're in preparation for an amendment to the unitized agreement to include an additional horizon.
- Q. Mr. Ingram, are you the project manager of this project? Is that right?
 - A. Yes.
- Q. Okay. The difference between 2001 and now, as far as -- obviously the prices are a lot better now, but what other differences are there? Do you guys have ${\rm CO}_2$ available now you didn't then or --
- A. To be -- to cut right to the chase, this would have been implemented in 2001 or early 2002, had not the Chevron and Texaco merger taken place.

Q. Okay.

A. Chevron was not as aggressive in developing tertiary reserves at that time, and the management structure changed, and so we -- it took us a while to get aligned and -- yes, certainly with today's prices, with the proven track record of the CVU now, several years of successful CO₂ flood, it's something we definitely want to pursue.

- Q. Okay. So it's -- so the Central Vacuum Unit -- was that done over the whole Central Vacuum Unit, or was it just a portion of it?
- A. It was not done over the whole unit. It's been done in phases. Most recently we've expanded it into Phase 8. I'd say probably two-thirds of that unit are now under CO₂ flood.
- Q. Okay. I remember the Central Vacuum -- the north part and the south part weren't near as good as the middle part, so --
- A. That's where we started. Phase 1 was in the middle part, which is just across the leaseline from this unit.
- Q. Okay. That polymer project that was done on the Vacuum-Grayburg Unit, is that going to affect your ${\rm CO_2}$ project any?
 - A. Personally, I'm not familiar with the details of

1	that project. I know, you know, for the most part
2	Basinwide, none of them proved to be highly successful. We
3	don't anticipate any problems.
4	EXAMINER JONES: Okay. You've sure got some tax
5	breaks there, for a while, I guess.
6	Okay, I don't have any more questions.
7	EXAMINER BROOKS: Very good, you may call your
8	next witness then.
9	MR. CARR: Mr. Examiner, with your permission
10	we'd like to have Mr. Pequeño and Mr. Ingram excused at
11	this time. We have a need to get Mr. Ingram quickly, if
12	that's acceptable, if it's all right with you.
13	EXAMINER BROOKS: That is acceptable.
14	EXAMINER JONES: I apologize for that.
15	MR. INGRAM: No, that's okay, that's okay.
16	MR. CARR: Yeah, we're in good time right now,
17	but it All right, thank you.
18	And at this time we would call Brent Brugger,
19	B-r-u-g-g-e-r.
20	EXAMINER BROOKS: I'm sorry, can you spell that
21	again?
22	MR. CARR: B-r-u-g-g-e-r.
23	And everyone is having trouble with what is a
24	Bill Carr map-folding. Sorry.
25	EXAMINER JONES: I've been yelled at by

geologists lots of times, no ability to fold a map. 1 2 BRENT BRUGGER, 3 the witness herein, after having been first duly sworn upon 4 his oath, was examined and testified as follows: 5 DIRECT EXAMINATION BY MR. CARR: 6 7 Would you state your name for the record, please? Q. 8 Α. My name is Brent Brugger. It's spelled 9 B-r-u-q-q-e-r. 10 And Mr. Brugger, where do you reside? Q. 11 I reside in Houston, Texas. Α. By whom are you employed? 12 Q. 13 I'm employed by Chevron USA. Α. And what is your position with Chevron USA? 14 Q. 15 I am a CO₂ project manager. Α. 16 Have you previously testified before the New Q. 17 Mexico Oil Conservation Division? 18 No, I have not. Α. Would you summarize your educational background 19 Q. 20 and review your work experience for the Examiners? 21 I have a bachelor of science in petroleum Α. 22 engineering from the University of Tulsa, graduated in 23 I've held a number of positions, production and 24 reservoir engineering, both CO2 floods and primary gas 25 production, within the company.

1	Q. Are you familiar with Chevron's plans to
2	implement a tertiary recovery project by the injection of
3	CO ₂ into the Vacuum-Grayburg-San Andres Unit?
4	A. Yes, I am.
5	Q. And have you made an engineering study of the
6	unit area in this proposed tertiary program?
7	A. Myself and the team.
8	Q. Are you prepared to share the results of
9	Chevron's work with the Examiners?
10	A. Yes, I am.
11	MR. CARR: We would tender Mr. Brugger as an
12	expert in reservoir engineering.
13	EXAMINER BROOKS: So qualified.
14	Q. (By Mr. Carr) Would you refer to Chevron Exhibit
15	11 and identify that and review the information on this
16	exhibit for the Examiner?
17	A. What we have here on Exhibit Number 11
18	Q. Wait just a second.
19	A. Sorry.
20	Q. Okay.
21	A. What we have here on Exhibit Number 11 is an area
22	map showing the wells of the vacuum area, and I'll go
23	through and explain the specifics of the map itself.
24	What we have is, the unit in question here that
25	we're asking for the addition of the carbon dioxide

injection is outlined in red, which is the Vacuum-San

Andres Unit. The green-outlined unit is the Central Vacuum

Unit, which is currently being CO₂-flooded. And the target

area is the area -- the purple dashed line is our CO₂
targeted area, which includes about 21 patterns. And then

the tan dashed lines around that are the areas of review

for the proposed CO₂ injection.

- Q. And this also shows offsetting tracts and units, does it not?
 - A. That's correct.

- Q. What is the current status of Chevron's efforts to implement the proposed carbon dioxide flood in this unit?
- A. We are in the process of final engineering for the target area, both on the geologic, reservoir as well as the facility engineering. And what we're doing here is to get the permits before getting final corporate approval on this project, which is designated for December of this year.
 - Q. That's the date for corporate approval?
 - A. That's the --
- Q. And when would you anticipate being able to inject ${\rm CO}_2$?
- A. Our anticipation right now is about second quarter of 2008, with industry lead times and so forth,

making those adjustments.

- Q. How will the CO₂ flood be implemented?
- A. Well, currently under this review we have the 25 injection wells that are subject to this review. We currently have injected about 225 million barrels of water in the area. Currently we're doing about 23,000 barrels a day of injection.

The plan is to implement an up-front CO₂ slug, approximately 30 percent -- it will depend upon the economics at the time -- up front, and then we will move towards a WAG process, which is water alternating gas, which helps with the future development of the area.

Currently we've cum'd so far about 59.3 million barrels of oil from the Vacuum-Grayburg-San Andres Unit, both from primary and secondary operations, and the secondary operations to date is about 34.5 million barrels.

- Q. Now when we talk about the target area that is shown on this map, what is that?
- A. The target area is basically the sweet spot of the structure. As Scott was talking to you or explaining to you, the Central Vacuum and the Vacuum-Grayburg-San Andres are sitting over a large structure, and the targeted area is the -- as I said, the sweet spot, the good conformance and the good area -- the primary for CO₂ flooding.

And how many acres are in this target area? 1 Q. There's approximately 1280 acres. 2 A. And about how much of the unit area does that 3 Q. represent? 4 About 86 percent. 5 Α. Are there current plans to add producing and 6 Q. injection wells to the area covered by the Application? 7 We are currently under review of those wells, but 8 9 they're not subject to this Application. 0. And what we're doing here is, we are confining 10 this Application to what was previously approved. 11 Let's go to Exhibit 12. That is in the binder 12 and -- 12 and 13 are in the ring binder. Can you just 13 identify Exhibit 12, please? 14 Exhibit 12 is the C-108 and the Application for Α. 15 authorization to inject CO2. 16 17 0. And this is the C-108 that was filed by Texaco, reviewed by Chevron and filed again in this Application; is 18 19 that right? That is correct. 20 Have you reviewed the data in the Application 21 Q. filed by Texaco? 22 Yes, we have, and with the Exhibit Number 13 this 23 will actually complete the entire C-108. The Exhibit 13 24 25 includes the additional wells that were drilled and/or

P-and-A'd from basically January of 2001. So this is a complete and accurate set of documents.

- Q. Can you just explain generally how the C-108
 Application is organized and what information is there?
- A. It has the C-108 form, then it's all the associated data in response to the C-108, which includes -- it shows all the wells in the Vacuum-Grayburg-San Andres Unit, it shows all the wells within a half mile of the injection wells, and it shows all the P-and-A'd wells in the CO₂ project area.
- Q. Now Exhibit 13, the supplemental information, basically what is included in that material?
- A. Those are the well data sheets for eight injection wells. As stated before, this is the additional wells that have been drilled or P-and-A'd since January of 2001, that had been used for the waterflood itself. And --
- Q. Have you revised the tabular information that's included on all the new wells?
 - A. That is correct.
- Q. Does this supplemental data also contain a plat showing water wells in the area with recent water analysis?
 - A. That is correct.
- Q. Now have some of the wells covered by this
 Application also been included in C-108 applications for
 other projects?

- A. Yes, they have, for the Central Vacuum project.
- Q. And so what we have here with the supplemental information is all information required by the C-108 for each of the wells in the area?
 - A. (Nods)

- Q. Based on your review, are the wells in the project area properly completed and cased, so as to prevent any problems with any water wells?
 - A. Yes, they are.
- Q. And have you reviewed the available data on wells within the area of review for the CO_2 flood and satisfied yourself that there's no remedial work required on any of these wells to enable Chevron and others to safely operate these wells in close proximity to the CO_2 flood?
 - A. Yes.
- Q. What is the current status of the wells Chevron is proposing to utilize for injection?
- A. Within this order we've got 25 active water-injection wells. Also one of the wells that we are requesting is actually an active oil well that is projected to be converted to injection --
 - Q. And that's --
 - A. -- for the CO_2 flood.
 - Q. And that's also identified in the Application?
- A. That's correct.

- Q. How does Chevron monitor these wells to assure the integrity of the wellbores?

 A. The injection system, we actually have a SCADA
- A. The injection system, we actually have a SCADA system. They are pressure-controlled chokes that is monitored by SCADA, so they have set points that if they see low pressure they shut them -- automatically shut them in.

They also -- during their normal evaluation pumpers are out there daily checking the wells, looking for any abnormalities in the wells themselves that will shut them in.

We also have our wellbore integrity test that we comply with, with New Mexico, every five years on these wells as well.

- O. Are there freshwater zones in the area?
- A. Yes, there are.
- Q. And what is that?
- A. The Ogallala aquifer, which is -- the base of is about 220 feet below, and it's the primary source of drinking water in the area.
 - Q. Are there freshwater wells within one mile of any proposed injection well?
 - A. Yes.

Q. Does the -- the last information and the supplemental information in Exhibit 13, is that a plat that

identifies these wells? 1 That is correct. 2 Α. And are current water analyses attached to the 3 Q. 4 plat? 5 Yes, they are. Α. 6 Q. And what do they show? They are consistent to what was submitted in 7 Α. 2001. Recent analyses have been done which shows no issues 8 at all with the fresh water and well within range. 9 Is it your opinion that the injection of CO2 as 10 Q. proposed will not pose a threat to any freshwater supplies 11 in the area? 12 It should not have any effect on the freshwater 13 A. 14 supply. And have you examined the available engineering 15 Q. and geologic data on this reservoir? 16 17 Yes, I have. Α. As a result of that review, have you found any 18 evidence of open faults or other hydrologic connections 19 between the injection interval and any underground source 20 of drinking water? 21 22 Α. No. 23 Q. What is the source of the CO₂ you propose to inject? 24 The source of the CO₂ is coming out of McElmo 25 Α.

dome, which is southwest Colorado, transported down the 1 Cortez pipeline to our field. 2 And what are the average volumes you propose to 3 0. 4 inject? The average volumes that we're looking at is 5 about 2.5 million a day on the -- for ${\rm CO_2}$, or about 1000 6 7 barrels a day on water. And what is the source of the water to be 0. 9 injected? The source of the water is the produced water. 10 Α. 11 Q. Would you advise the Examiners of the maximum daily injection rates that you will be utilizing? 12 The maximum we're looking at is probably 5 13 Α. million a day or 2500 barrels a day of water. 14 15 Let's talk for a minute about the pressure data. Q. 16 What pressure limitations is Chevron requesting for this 17 CO₂-injection project? We're looking for a pressure of 1850 pounds on 18 Α. 19 CO2. Now this is higher than surface injection 20 Q. pressures for water in the area? 21 22 That is correct, and that's to take into account Α. the density difference between CO2 and water. 23 24 Q. And if you do that and inject at this pressure at 25 the surface, will you be obtaining actually an injection

bottomhole pressure that's equivalent to the approved pressure for water?

- A. That is correct, and it's also -- will have equivalent bottomhole pressures between water and CO₂. It's also the same pressures that we're operating the Central Vacuum Unit that was approved for that CO₂ flood as well, and all we're asking for is the same pressure limitations as that flood.
- Q. And is Chevron prepared to run step rate tests to confirm any increase in pressure will --
 - A. Yes.

- Q. -- not endanger the reservoir?
- A. That's correct.
- Q. In your opinion is there a potential risk that any of these injection fluids will get out of zone, damaging other formations if this increase is accepted by the Division?
 - A. I don't believe.
- Q. And are the pressures that you're seeking in this unit area comparable to the injection pressures that have been authorized in Central Vacuum Unit and other CO₂ floods in the area?
- A. Yes.
- Q. Let's go to Exhibit Number 14, copies of administrative orders. Can you explain to the Examiners

what these are? 1 As stated before, these are some of the Α. 2 additional wells that were applied for, drilled for after 3 the 2001 application. They are the administrative orders 4 WFX-823 and PMX-216 and PMX-217. 5 If we look at the top one, WFX-823, that 6 Q. administrative order references the enhanced oil tertiary 7 8 recovery project, does it not? That's correct. Α. 9

- Q. And by the time this order was entered, that project -- the order approving it had expired?
 - A. That is correct.
- Q. It also on the second page references the 1850p.s.i. pressure limitation, does it not?
 - A. That's correct.

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- Q. And that is a pressure limitation that Texaco sought only for CO₂ injection?
 - A. That is correct.
- Q. What are the status of these wells?
- 20 A. The status of these wells are active water
 21 injection. There has not been any CO₂ injected into these
 22 wells at all.
- Q. And how does Chevron recommend that each of these orders be handled?
 - A. What we recommend is that we go forward and treat

these strictly as water injection wells, and as an order is approved we will amend the order with these wells and reapply the ${\rm CO}_2$ injection.

- Q. And the conversion or the use of these wells or -- adding these wells as water-injection wells in the unit, that was actually approved back in '72 by the original order?
- A. That is correct. It was during the engineering evaluation that it was critical for the waterflood operations for these wells to be drilled.
 - Q. And this is just a result of --
 - A. That's correct.

- Q. Now, Mr. Brugger, I'd like to talk a little bit with you about Exhibit Number 15, the Application for an enhanced oil recovery project. Does this exhibit, this Application, meet all the requirements of Division Rules for an application for the incentive tax break?
- A. Yes, it's complete and provides all the data required.
- Q. And what are the additional estimated costs to be incurred in the project -- or in this tertiary project?
- A. The proposal is about \$64.4 million for the facilities and well work to implement the ${\rm CO_2}$, along with total costs being somewhere around \$233 million.
 - Q. And how much additional production does Chevron

expect to obtain from the project? 1 About 24.5 million barrels. 2 Α. And what is the estimated total value of this 3 Q. additional production? 4 \$504 million, based on a \$45-barrel-of-oil price, 5 Α. as well as a \$30-per-barrel of NGLs, in that targeted area. 6 7 And you realize that this incentive tax rate Q. would only kick in if the price of oil significantly drops? 8 9 That is correct. 10 0. And by bringing this, you're assuring for the 11 industry that the price will drop? That is correct. 12 Α. 13 (Laughter) Let's look at Exhibit A to this Application, and 14 0. what is this? 15 Exhibit A of -- Well, Exhibit A of Exhibit 15 is 16 17 actually all the wells that are contained within the CO2 18 VGSAU proposed target area. This list includes the 25 CO₂-injection wells 19 Q. 20 covered by this Application? 21 Α. That's correct. 22 It also includes water-injection wells in the Q. 23 area? That is correct. 24 25 MR. CARR: Mr. Examiner, that means that the list will be very hard for you to utilize when you try and write an order. But what I want to tell you is that we will file a proposed order, and the Application that was filed in this case contained tables that also separated the 25 wells covered by this Application from the total injection wells that were included on the list.

So the list that you have has more than 25 injection wells, because some of those are the wells that are being used for water injection but for which we are not seeking authorization in this case to convert to CO_2 . So that's why those numbers may not line up.

EXAMINER BROOKS: This exhibit, then, doesn't distinguish between the wells that are being --

MR. CARR: Not -- covered by this Application and all the injection wells in the unit. We discovered that yesterday.

EXAMINER BROOKS: Okay.

MR. CARR: Our Application does have an attachment to it. It's Exhibit A or B to the Application, and it identifies the wells that are covered by the Application. And I'm also drafting a proposed order with a table that correctly states exactly the wells that are covered by this Application, that are exactly the wells that were covered by the Texaco application.

EXAMINER BROOKS: Very good.

1	Q. (By Mr. Carr) Mr. Brugger, let's go to the last
2	attachment to Exhibit 15, or Exhibit B or Attachment B.
. 3	What is this?
4	A. This is the production history proposal for the
5	CO ₂ expansion for the VGSAU targeted area.
6	Q. And it also forecasts where we go for years to
7	come, correct?
8	A. That is correct.
9	Q. In your opinion, will approval of this
10	Application and the implementation of a CO ₂ flood in the
11	Vacuum-Grayburg-San Andres Unit as requested, and
12	increasing the pressures as request, be in the best
13	interest of conservation, the prevention of waste and the
14	protection of correlative rights?
15	A. Yes, it is.
16	Q. And how soon does Chevron hope to commence
17	operations? May of next year?
18	A. May of next year.
19	Q. And you need the order in time to then go and get
20	corporate approval at the end of this year?
21	A. That is correct.
22	Q. Were Chevron Exhibits 10 through 15 prepared by
23	you or have you reviewed them and can you confirm their
24	accuracy?
25	A. Yes, I can.

MR. CARR: May it please the Examiners, at this 1 time we'd move the admission into evidence of Chevron 2 Exhibits 10 through 15. 3 10 through 15 are admitted. EXAMINER BROOKS: 4 MR. CARR: That concludes my direct examination 5 of Mr. Brugger. 6 7 **EXAMINATION** BY EXAMINER BROOKS: 8 9 0. Very good. Just some overall things since I haven't studied the Application, I'll have to admit, here. 10 How many injection wells -- water injection wells 11 are you currently using in this unit, total? 12 Total, it should be 30 to 31. 13 Now are you going to be -- or the CO2 -- how many 14 Q. CO₂ injection wells are you asking to permit? 15 Twenty-five. 16 Α. 17 Q. And are all those currently injecting water 18 except the one that's to be converted? Α. That is correct. 19 20 0. Okay. So there's only one well to be converted. It's currently producing oil? 21 That's correct. Α. 22 23 Now have you had the wells that are the subject of the Application marked on Exhibit Number 11 in any 24 particular way? 25

Α. I don't believe. 1 MR. CARR: We do not. We can supplement this 2 3 with --EXAMINER BROOKS: Well --4 MR. CARR: -- an exhibit that identifies those. 5 EXAMINER BROOKS: -- if you give us a list, I 6 7 think we can go through and identify them. 8 MR. CARR: Okay. 9 Q. (By Examiner Brooks) Now I note that the target area includes the area -- a portion of the area on the 10 north boundary that is not within the unit; is that 11 12 correct? That is correct, that's part of the lease line 13 Α. 14 that we've discussed with the Central Vacuum Unit area. 15 Q. Okay, the green is the Central Vacuum Unit? 16 Α. Yes. 17 Now what about the area in Section 35? That's Q. 18 the State 35 Unit? That's correct. Basically the Section 35, which 19 is operated by McGowan, working interest owners, we are --20 at this time have not gotten into amending that for the CO2 21 22 specifically with them until we get approval. 23 So would this be issued subject to that approval Q. occurring or --24 25 Α. It -- the go-forward plan is not dependent upon

1 the McGowan --2 Q. Okay. 3 Α. -- piece. Are any -- are all the injection wells within the 4 Q. 5 unit area --6 Α. Yes. -- all the proposed injection wells? 7 Q. 8 Α. Yes. 9 But there will be producing wells that will be Q. 10 outside the unit area? Correct, which is maintained by that leaseline Α. 11 agreement with the Central Vacuum unit. 12 But not within the McGowan? 13 Q. That is --Not with the McGowan. 14 Α. So none of the producing wells that you expect --15 Q. you don't expect any of your producing wells to be on that 16 17 McGowan property, then? 18 Α. The line-of-injection wells along that leaseline 19 well will not be injecting CO2 at the front end of the project --20 21 Q. Okay. -- currently. The producers that are associated 22 with those patterns will see CO2, but they'll be coming 23 from the south side, from the solely owned VGSAU injectors. 24 25 EXAMINER BROOKS: Okay. I guess that's all my

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questions. I'll turn it over to the expert here.
 1
               EXAMINER JONES: Yeah, listen to that.
 2
               I really -- I apologize for making you miss your
 3
 4
     plane.
               THE WITNESS: No, I'm actually fine.
 5
     doesn't leave till 6:30, so --
 6
               EXAMINER JONES:
 7
                                Oh, okay.
 8
               THE WITNESS: \frac{1}{1} no problem.
 9
               EXAMINER JONES:
                                We're okay.
               MR. CARR: The people who were in trouble are
10
     gone.
11
               THE WITNESS: Yeah.
12
               EXAMINER JONES:
                                Bill can take you out.
13
               (Laughter)
14
                              EXAMINATION
15
     BY EXAMINER JONES:
16
               The pattern that you're going to have, is it
17
          Q.
     going to be the same as the waterflood pattern?
18
19
          Α.
               Yes.
               And what pattern would that be? Is it a 40-acre
20
          0.
     and fivespot?
21
               Well, they're actually going to be line drive,
22
          Α.
     they're 20-acre linedrive patterns. During the course --
23
     after the waterflood injection and through the development
24
25
     of the waterflood, they've gone into looking at downspacing
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the injection wells and they've gone to more of a line drive, which -- that's the plan, is to keep that consistent with the ${\rm CO}_2$.

- Q. That well you're going to convert, how much oil does it make?
 - A. Off the top of my head I do not know.
- Q. But it takes a lot of guts to persuade management to convert one of those producers?
- A. Yes, but the other piece of that is, they're looking at the larger scope of this project, which the CO₂ enhanced oil recovery project will outweigh the production life of that well.
- Q. Okay. Now the numbers you gave earlier for volumes of recovery of secondary oil to date and projected CO_2 oil -- enhanced oil recovery, those numbers -- did you change those between 2001 and now?
 - A. Those are current, up-to-date --
 - Q. -- projections?

- A. -- projections.
- Q. Okay. Now what percentages -- Can you go over the percentages of ultimate primary, ultimate secondary and ultimate tertiary?
- A. The total projection right now is 36 percent with the waterflood. With the CO₂ flood we have to expect to pick up another 12 to 13 percent.

Okay, so 18 percent primary or so? Q. 1 Thereabouts, yes. 2 Α. The producers out there, are they pretty much 3 Q. degassed or -- have you swept a lot of the gas out already? 4 A lot of the gas is. Most of GOR for this area 5 is 300, 400, so it's fairly low. 6 7 That's a lot lower --0. 8 Α. Yeah. 9 Q. -- than it used to be. 10 Α. Yeah. So you don't have to deal with variable speed 11 Q. SUBMERSIBLE drives and vertical pumps? 12 No. No, and that is an issue with the CO2 that 13 we'll have to handle, but that's already in the planned 14 project scope of being able to handle the artificial lift 15 with that and make the appropriate conversions as we see 16 17 gas breakthrough. 18 EXAMINER JONES: Okay, that's -- I think -- You 19 guys covered so much in such a short amount of time, but the projections you're using are new projections, and 20 they're not necessarily exactly the same as was in the 21 2001, but -- Correct me if I'm wrong, but the order 22 23 you're -- you're going to provide a proposed order, but --MR. CARR: Yeah --24 25 EXAMINER JONES: -- it's going to be similar to

the order that was issued in 2001? 1 It's going to be very similar to the MR. CARR: 2 2001 -- ~ 3 **EXAMINER JONES:** Okay. 4 **EXAMINER JONES: --** with any change in italics 5 concerning recent orders, and I will confirm to you now 6 7 that we think we've gotten everything in the table 8 correctly identified, and we'll be e-mailing it to you. will send the other information that you requested on land 9 ownership for the other sets. 10 EXAMINER JONES: Thank you. Okay, that's all I 11 have. 12 EXAMINER BROOKS: I have nothing further. 13 MR. CARR: And that concludes our presentation. 14 EXAMINER BROOKS: Very good. Then Case Number 15 13,961 will be taken under advisement. 16 17 (Off the record) EXAMINER BROOKS: Okay, I believe I already said 18 Case Number 13,961 will be taken under advisement. 19 20 And Mr. Jones, you're welcome to stay and listen to the rest of the cases, but I don't believe that -- I 21 think the rest of the cases are not sufficiently technical 22 that I will need your assistance on them if you have other 23 24 things that you --25 EXAMINER JONES: I sure do.

1	EXAMINER BROOKS: feel worthwhile to be doing.
2	EXAMINER JONES: Yes.
3	EXAMINER BROOKS: Feel more worthwhile to be
4	perhaps wouldn't be that
5	MR. CARR: I do have an engineering witness in
6	the next case.
7	EXAMINER BROOKS: Well, I think probably this is
8	one I can handle.
9	(Thereupon, these proceedings were concluded at
10	2:18 p.m.)
11	* * *
12	
13	
14	
15	I do hereby certify that the foregoing in
16	do hereby certify that the foregoing in a complete record of the proceedings in the Examiner hearing of Case No.
17	heard by me on, Examiner
18	Oil Conservation Division
19	Oil Consei
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STATE OF

CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL August 28th, 2007.

STEVEN T. BRENNER CCR No. 7

My commission expires: October 16th, 2010