

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. 11,168  
)  
APPLICATION OF OXY USA, INC. )  
\_\_\_\_\_ )

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

December 15th, 1994

Santa Fe, New Mexico

JAN 1995

This matter came on for hearing before the Oil Conservation Division on Thursday, December 15th, 1994, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, before Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

\* \* \*

STEVEN T. BRENNER, CCR  
(505) 989-9317

I N D E X

December 15th, 1994  
Examiner Hearing  
CASE NO. 11,168

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## A P P E A R A N C E S

## FOR THE DIVISION:

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By: W. THOMAS KELLAHIN

\* \* \*

1           WHEREUPON, the following proceedings were had at  
2   3:19 p.m.:

3           EXAMINER STOGNER: At this time I'll call next  
4 case, Number 11,168.

5           MR. CARROLL: Application of OXY, USA, Inc., for  
6 waterflood expansion and qualification for the recovered  
7 oil tax rate pursuant to the "New Mexico Enhanced Oil  
8 Recovery Act", Lea County, New Mexico.

9           EXAMINER STOGNER: At this time I'll call for  
10 appearances.

11          MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin of  
12 the Santa Fe law firm of Kellahin and Kellahin, appearing  
13 on behalf of the Applicant, and I have one witness to be  
14 sworn.

15          EXAMINER STOGNER: Will that one witness please  
16 stand to be sworn at this time?

17                   (Thereupon, the witness was sworn.)

18          EXAMINER STOGNER: Mr. Kellahin?

19                   SCOTT GENGLER,  
20 the witness herein, after having been first duly sworn upon  
21 his oath, was examined and testified as follows:

22                   DIRECT EXAMINATION

23 BY MR. KELLAHIN:

24           Q. Mr. Gengler, for the record would you please  
25 state your name and occupation?

1           A.    My name is Scott Gengler, spelled G-e-n-g-l-e-r,  
2   and I'm a petroleum engineer.

3           Q.    Where do you reside, sir?

4           A.    Midland, Texas.

5           Q.    On prior occasions, have you testified before  
6   this agency as an expert witness in the field of petroleum  
7   engineering?

8           A.    Yes, I have.

9           Q.    As part of your engineering duties for your  
10   company, have you made an engineering evaluation of the  
11   opportunity for additional secondary recovery out of what  
12   is identified as the OXY-operated Myers Langlie-Mattix  
13   unit?

14          A.    Yes, I have.

15                   MR. KELLAHIN:  We tender Mr. Gengler as an expert  
16   witness.

17                   EXAMINER STOGNER:  Mr. Gengler is so qualified.

18          Q.    (By Mr. Kellahin)  Mr. Gengler, let me ask you,  
19   sir, to turn to the locator map which is the first page of  
20   Exhibit Number 2, and let's have you identify some of the  
21   items that are shown on that display.

22                   First of all, show us what the exterior boundary  
23   is or how to find that boundary for this particular unit.

24          A.    Are you talking about Exhibit 1?

25          Q.    Yes, sir.

1 A. Okay, you said Exhibit 2.

2 Q. I'm sorry, page 1 of Exhibit 1.

3 A. The dashed line is the outer boundary of the  
4 Myers Langlie-Mattix unit. It also includes three window  
5 areas which are not included in the unit, and those are  
6 shown as blank spots on the map, and the yellow-shaded area  
7 is the project area.

8 Q. What has been the historical purpose of the unit  
9 itself?

10 A. The purpose of the unit was to waterflood the  
11 Myers -- or the Langlie-Mattix formations under 80-acre  
12 fivespot waterfloods.

13 MR. KELLAHIN: Mr. Examiner, that waterflood  
14 order was issued by the Division effective on November  
15 20th, 1973, by Division Order R-4680.

16 The unit itself was approved four days earlier,  
17 on November 16th, 1973, by Division Order R-4660.

18 Q. (By Mr. Kellahin) Give us a little short history  
19 of the waterflood operations, particularly during the  
20 Seventies, and then show us where we are now in terms of  
21 recoveries.

22 A. The unit was, as you said, unitized in 1973, and  
23 waterflood operations began in early 1975.

24 To date, 15.2 million barrels have been produced  
25 from wells within the unit, with an ultimate primary

1 production of 9 million barrels.

2 Under the current 80-acre fivespot waterflood  
3 pattern within the unit, there are approximately 688,000  
4 barrels of oil to be recovered under this mode of  
5 operation.

6 Q. Is OXY beginning to reach the point in the life  
7 of this project that you need to undertake additional  
8 expansions of the waterflood project and that technology?

9 A. Yes.

10 Q. Describe for us the significance to you of the  
11 area shaded in yellow on page 1 of Exhibit 1.

12 A. This area is what we're calling our project area,  
13 and what we plan on doing is infill drilling this and go to  
14 40-acre fivespot waterflood patterns.

15 Q. Describe for us the color code for the wells.

16 A. The blue wells are the infill wells that were  
17 drilled, the black wells are current injection wells, and  
18 those are in black triangles. The red triangles are wells  
19 that are currently producing that will be converted to  
20 injection.

21 Q. How did you determine the size and the shape of  
22 the project area for this expansion?

23 A. We wanted to do a small part of this unit as a  
24 kind of pilot project to determine the feasibility of the  
25 40-acre fivespot pattern, so we took an area which we felt

1 was representative of most of the unit, to take a look at  
2 this pilot project.

3 Q. When you total up the acreage within the yellow  
4 area as your project area, am I correct in understanding  
5 that's approximately 760 acres?

6 A. That is correct.

7 Q. As the project engineer and with your expertise,  
8 do you have an engineering opinion as to whether or not it  
9 is reasonably probable to have a positive injection  
10 response for those producing wells within this project  
11 area?

12 A. Yes, I do.

13 Q. And what is that opinion?

14 A. I believe that there is substantial oil that has  
15 been unswept, that it can be recovered by 40-acre fivespot  
16 waterflood patterns.

17 Q. Before we move through the rest of the items on  
18 Exhibit 1, let me ask you to turn to what is marked, I  
19 think, as -- Did you intend this for Exhibit 2?

20 A. Yes.

21 Q. All right, Exhibit 2 is the schematic, if you  
22 will, the diagram illustration. To illustrate the concept  
23 of what you're trying to achieve, explain to us pages 1 and  
24 2 of Exhibit 2.

25 A. Page 1 shows an 80-acre fivespot waterflood



1 pattern and shows the general shape of what we feel like  
2 is, you know, the waterflood distribution of water through  
3 the reservoirs, and it shows big holes through the middle.

4 Based on other units that have done this type of  
5 operation of infill drilling and going to 40-acre  
6 fivespots, we have found that this is the case, that there  
7 are areas in the middle that are unswept, that would not be  
8 swept and not recovered in an 80-acre fivespot pattern.

9 Q. If the Division approves this expansion of the  
10 waterflood, do you have an illustration that will  
11 illustrate what you're trying to accomplish?

12 A. Yes, on page number 2.

13 Q. All right, describe that for us.

14 A. This shows the drilling of the well inside that  
15 40-acre area that's unswept and the conversion of the two  
16 injection wells -- or the two producing wells that were not  
17 injecting water, and the accompanying pattern of the  
18 waterflood that you would see as a swept area.

19 Q. Go back to Exhibit 1 now. Let's turn to page 2  
20 of Exhibit 1. What have you identified for us on that  
21 page?

22 A. This is a description of the area that is  
23 involved in the project area.

24 MR. KELLAHIN: Okay. Mr. Examiner, this same  
25 description has been reformatted on the Application that

1 we've filed, and it's in a form more conventionally used by  
2 the Division in processing its orders like this. If you  
3 would care to look at the Application, we have reorganized  
4 that information.

5 Q. (By Mr. Kellahin) When we turn to page 3, what  
6 do we see on page 3?

7 A. This is the list of the wells that are currently  
8 in the project area and their current status.

9 Q. Okay. Summarize for us the project operation.  
10 You've got existing producers. How many of those producers  
11 get converted to injection?

12 A. Sixteen.

13 Q. Are there any wells that are not producers that  
14 will be utilized for injection? Do you have any plugged  
15 and abandoned wells or temporarily abandoned wells?

16 A. Yes, we have one plugged and abandoned injector  
17 that we plan to re-enter and convert to injection.

18 Q. All right. Those 16 wells, then, the re-  
19 establishment of the prior plugged injector, plus the  
20 conversion of 16 producers for injection, are all those  
21 wells accounted for when you put together the Division  
22 C-108 filing?

23 A. Yes, they are.

24 Q. All right. Within the project area, then, how  
25 many new producers are to be drilled or have been drilled

1 or yet to be drilled?

2 A. There will be 19.

3 Q. Nineteen total?

4 A. (Nods)

5 Q. Of the 19 total infill producers, how many of  
6 those have actually been drilled?

7 A. We have drilled the 19 wells.

8 Q. Okay. At this point, have you commenced water  
9 injection into the project area?

10 A. Not on 40-acre fivespot. The 80-acre fivespot  
11 has been injected into.

12 Q. Well, obviously, that's continuing?

13 A. Correct.

14 Q. But the new injection for which you're seeking  
15 approval and concurrently the authorization under the  
16 Enhanced Oil Recovery Act is for injection that has not yet  
17 commenced?

18 A. That is correct.

19 Q. Have you calculated as an engineer what the  
20 expected additional incremental recovery is to be from the  
21 project area attributable directly to this expansion?

22 A. Yes, I have.

23 Q. And what is that number?

24 A. It is approximately 1.6 million barrels.

25 Q. Can you forecast for us the period of time over

1 which that volume of oil will be recovered?

2 A. Somewhere between 10 and 20 years.

3 Q. On page 4 of Exhibit 1, you've attached a copy of  
4 the Division order that approved the unit, and then we come  
5 to a production plot.

6 A. Correct.

7 Q. If you'll look, then, on page 5, is it -- Let's  
8 have you identify and describe that information on the  
9 production plot.

10 A. This is a production curve with oil, gas and  
11 water production rates, along with water injection rates  
12 for the entire Myers Langlie-Mattix unit.

13 Q. Take us through and show us the point in time  
14 where the unit was subject to the initial waterflood on the  
15 80-acre pattern.

16 A. In 1975 you can see where the water injection  
17 started, where the curve begins.

18 They went through and injected into parts of the  
19 field with expansion in 1978 and 1979, to fully develop all  
20 of the 80-acre fivespot patterns, and that has been ongoing  
21 since that time.

22 Q. Okay. The next display on page 6, what does this  
23 represent?

24 A. This is the oil, gas and water production rates  
25 and the water injection rates from the project area of the

1 Myers Langlie-Mattix unit.

2 Q. Okay. Again, we can see in 1975 the commencement  
3 of the initial secondary recovery for that portion of the  
4 unit that's identified by the project area description?

5 A. That is correct.

6 Q. All right. And then that production peaks and  
7 begins to fall off and established a decline attributable  
8 to the benefits of that initial waterflood on the 80-acre  
9 pattern?

10 A. That is correct.

11 Q. All right. Later in the life of the plot, then,  
12 we're seeing a slight increase in production. That's  
13 attributable to the infill drilling program that's gone on?

14 A. That is correct.

15 Q. All right. After that, then, on page 7,  
16 summarize for us what you've shown.

17 A. This is the data on the project. We plan to  
18 inject water, which is coming from Texaco's water system,  
19 the Jal water system, down there, which is Reef water. We  
20 plan to inject approximately 300 barrels of water per day,  
21 and we plan to start injection as soon as we get approval  
22 from the State.

23 Q. That estimate of volume is 300 barrels of water  
24 per day per injection well?

25 A. That is correct.

1 Q. All right. And after that is the waterflood  
2 order that was originally issued by the Division for the  
3 entire waterflood project, right?

4 A. That is correct.

5 Q. And then after that, there's a list of wells on  
6 page 11. What does this apply to?

7 A. These are the same wells that were listed before,  
8 only this time we have listed their proposed status under  
9 this project area.

10 Q. All right. So after -- If the Division approves  
11 this and after a conversion of all these things, this would  
12 be the final status?

13 A. That is correct.

14 Q. All right. Okay, and after that, on page 12.

15 A. These are the cost estimates for this project, to  
16 develop on 40-acre fivespot patterns of what we've -- have  
17 spent and are going to spend for this project.

18 Q. All right, let's turn now to the forecast, if you  
19 will, of the potential benefit of doing this work.

20 When we look at page 13 of Exhibit 1, is this the  
21 forecast only for the project area, or is this the whole  
22 unit?

23 A. This is just for the project area.

24 Q. Within that project area, then, help us read the  
25 curve.

1           A.    You have the green curve through late 1994, which  
2 includes the drilling of the infill wells. We kind of hold  
3 that production fairly steady and then get a production  
4 response from the water injection. We peak out in mid-1996  
5 and start a decline after that.

6           Q.    All right. When you identified a while ago for  
7 the Examiner that the magnitude of secondary oil directly  
8 attributable to the enhanced recovery within this project  
9 area, the 1.6 million barrels, how is that shown on this  
10 curve? What portion of that curve is that?

11          A.    It's the blue part. Without the water injection,  
12 these wells, these infill wells, will drop in production  
13 fairly rapidly, and we wouldn't get near the production out  
14 of these wells that we would by putting water in the ground  
15 and getting some production from the movement of oil to  
16 these wellbores.

17          Q.    Okay. It appears, Mr. Gengler, that you've taken  
18 a rather conservative approach in identifying the project  
19 area that's shown in yellow on the first page of this  
20 exhibit?

21          A.    Yes, that is correct.

22          Q.    You have chosen to show less potential project  
23 area that might be benefitted by this second phase, if you  
24 will, of waterflood operations?

25          A.    Yes, that's correct.

1 Q. Let's turn to the processing of the C-108. When  
2 we look at Exhibit 3, this represents your personal  
3 completion of what you believe to be all the filing  
4 requirements of the Division with regards to the C-108  
5 filing?

6 A. That is correct.

7 Q. Let's pull this apart, if you will, and take out  
8 the big map at the back, the area-of-review map. How do we  
9 locate the one-half-mile area of review on this area-of-  
10 review map?

11 A. It is the purple circles in the middle of the  
12 map.

13 Q. With regards to the two-mile rule where the  
14 Division requires you to report the location and presence  
15 of any well as to any depth, does this display satisfy that  
16 purpose?

17 A. Yes, it does.

18 Q. Within the area of review, then, have you  
19 personally examined the available information to determine  
20 the mechanical integrity of the wells within the area of  
21 review?

22 A. Yes, I have.

23 Q. When we look at the category of wells that would  
24 be classified as plugged and abandoned, do we have any of  
25 those type wells?



1           A.    Yes, we do.

2           Q.    When you look at that category of well, have you  
3 examined the plugging programs for those wells to satisfy  
4 yourself as an engineer that they've been adequately  
5 plugged and abandoned so that injection into this  
6 particular portion of the reservoir would isolate those  
7 injection fluids to this formation and they could not  
8 migrate out of zone through any of those plugged and  
9 abandoned wells?

10          A.    Yes, I have.

11          Q.    What is your conclusion about the integrity of  
12 those plugged and abandoned wells?

13          A.    It is my opinion that all the wells that have  
14 been plugged in this area have been plugged properly.

15          Q.    When we look at the category of wells that are  
16 producing wells within the area of review, have you  
17 examined each and every one of those wells to determine  
18 that they are adequately cemented across your injection  
19 interval so that the casing in those wellbores is not  
20 exposed to injection waters within this interval?

21          A.    Yes, I have.

22          Q.    And what did you find?

23          A.    I found that they're all cemented across the  
24 injection interval.

25          Q.    Okay.  When we look at your map here, is there a

1 way to identify on this map the location of any potential  
2 freshwater source, either windmill or some other means by  
3 which fresh water is produced in this area?

4 A. Yes, there is.

5 Q. And how do we find that?

6 A. If you look down here on the legend, there's two  
7 circles with a bar in the middle of the inner circle, and  
8 those represent the water wells that have been located  
9 within the half-mile radius, and they are found -- An  
10 example of that would be in the southeast corner of Section  
11 31, there's two of them right there, and there's several  
12 others on the map.

13 Q. How did -- What means did you go through to  
14 determine the location of these freshwater sources?

15 A. We had someone go down to the State Engineer's  
16 Office to get all the information of all wells that have  
17 been permitted by the State, and we sent one of our field  
18 people out to the area to look around to find all the wells  
19 that they could find and plotted all those on the map.

20 Q. All right. So from two different sources you  
21 have attempted to locate all known freshwater sources  
22 within the area?

23 A. That is correct.

24 Q. Does your C-108 filing show an analysis of the  
25 fresh water in this area?

1 A. Yes, I have two freshwater analyses.

2 Q. And do we have an analysis of the water that's to  
3 be injected into the reservoir?

4 A. Not in the Application.

5 Q. It's part of the original filing in the  
6 waterflood, I assume?

7 A. That is correct.

8 Q. All right. What kind of injection pressures are  
9 you currently using with the injection wells in the project  
10 area?

11 A. They range from well to well, but on an average,  
12 approximately 1100 pounds.

13 Q. Are we within or above the .2-p.s.i.-per-foot-of-  
14 depth guideline the Division uses for surface pressure  
15 control?

16 A. Most of those wells have had step-rate tests run  
17 and are above the .2 p.s.i. per foot.

18 Q. All right. But their surface injection pressure  
19 has been authorized at a rate based upon injection step-  
20 rate tests?

21 A. That is correct.

22 Q. Does the actual injection interval change in the  
23 project area from what is currently being utilized as the  
24 injection interval?

25 A. No, it does not.

1 Q. You're currently using the lower Seven Rivers and  
2 Queen portion of the pool?

3 A. And the Penrose.

4 Q. And the Penrose.

5 Notifications of this Application were sent to  
6 the offset operators, to the owners of the surface, for  
7 each surface injection well, as noted on Exhibits 2 and 3  
8 of Exhibit 3, Mr. Gengler?

9 A. That is correct.

10 Q. And to your knowledge, did you receive any  
11 objection or complaint for any of those interested parties?

12 A. I did not receive any.

13 Q. Let's take one of the injection well schematics,  
14 if you will, that's in the C-108. Find one that is  
15 typical, and go through the mechanics of how you propose to  
16 convert these producers to injection.

17 Q. I'll just take the first well, which is Myers  
18 Langlie-Mattix Unit Number 70 on page number 5. This is an  
19 open-hole completion.

20 Our plans are to -- in this particular wellbore,  
21 to clean out to TD, put a light acid job on it, run a  
22 packer with fiberglass-lined tubing and set the packer  
23 above the open-hole interval.

24 Q. Has the waterflood experienced any out-of-zone  
25 water flows as a result of water injection?

1 A. Not to my knowledge.

2 Q. Okay. We're not suffering any kind of  
3 operational problem with regards to injectivity of water  
4 into this particular portion of the pool?

5 A. No.

6 Q. Do you have an estimate for us, Mr. Gengler, of  
7 the anticipated value of the additional hydrocarbons to be  
8 recovered if the Division approves this project, not only  
9 as an expanded waterflood with the additional injection  
10 authority, but as a qualified enhanced oil recovery project  
11 pursuant to State statute?

12 A. Yes, I do.

13 Q. And what is that opinion?

14 A. We expect the value of the oil to be produced at  
15 \$14.8 million.

16 Q. Were Exhibits 1, 2 and 3 prepared by you or  
17 compiled under your direction or supervision?

18 A. Yes, they were.

19 Q. When you -- Let's take a typical conversion of a  
20 producer to an injector. Once you have it converted,  
21 you'll establish what that pressure, injection pressure, is  
22 at the surface. And if it requires an injection pressure  
23 greater than the .2-p.s.i.-per-foot-of-depth criteria, then  
24 you go through the process of having a step-rate test,  
25 filing with the Division and getting approved?



1 northeast, correct?

2 A. That is correct.

3 Q. And all the rest marked with red triangles are to  
4 be converted, producers to injectors?

5 A. That is correct.

6 Q. How many producing wells will be drilled, infill?

7 A. There's a total of 19 wells.

8 Q. Have those been staked yet, or --

9 A. They have been drilled.

10 Q. They have been drilled, okay.

11 A. What we wanted to do was to drill those wells to  
12 verify the unswept portion, and what we found was that we  
13 completed the wells and they showed a definite drop in  
14 production within a short period of time, which makes our  
15 hypothesis of this unswept area correct.

16 Q. And it is the area marked in yellow in which you  
17 have the proposal to get the tax credit; is that correct?

18 A. That is correct.

19 EXAMINER STOGNER: Mr. Kellahin --

20 MR. KELLAHIN: Sir?

21 EXAMINER STOGNER: -- I believe you told me that  
22 you have that description in the Application. You wouldn't  
23 happen to have it on a floppy disc, would you?

24 MR. KELLAHIN: I believe we can. It's on my hard  
25 drive, and we can certainly duplicate it and submit it to

1 you.

2 EXAMINER STOGNER: If you would do that, I would  
3 appreciate it.

4 MR. KELLAHIN: You bet. And we will do the same  
5 thing with the well list if you'd like.

6 EXAMINER STOGNER: Why don't you just go ahead  
7 and submit both of them? That way it will save us from  
8 duplicating.

9 MR. KELLAHIN: Yes, sir.

10 Q. (By Examiner Stogner) Let's see, just some  
11 figures to go over. I believe you stated an additional  
12 incremental 1.6 million barrels of oil will be produced in  
13 the pilot project if everything goes okay?

14 A. That is correct.

15 Q. And that comes out to \$14.8 million?

16 A. That is correct.

17 Q. And do you have an expenditure list? How much is  
18 -- I believe you did.

19 MR. KELLAHIN: Yes, sir.

20 THE WITNESS: Yes, I believe --

21 MR. KELLAHIN: What page is that, Scott?

22 THE WITNESS: It's in Exhibit Number 1, page  
23 number 12.

24 Q. (By Examiner Stogner) Now, you've already  
25 accrued the 18 producers, the \$3.6 million?



1           A.    That is correct.

2           Q.    Have you upgraded the batteries, injection  
3 facilities at this point?

4           A.    No.

5           EXAMINER STOGNER:  I have no further questions of  
6 this witness.

7           Can you think of anything further, Mr. Kellahin?

8           MR. KELLAHIN:  Just a footnote, Mr. Examiner.

9           The process we're following for approval of this as an  
10 enhanced oil recovery is a procedure that's been authorized  
11 by the Commission.  It's Commission Order R-9955-A.  It was  
12 entered by the Commission in April of 1994, when it  
13 approved the expansion by OXY of its -- a portion of its  
14 Kelly-Penrose B unit in Lea County, New Mexico, and we're  
15 following that same process here.

16          EXAMINER STOGNER:  Since you brought that up, are  
17 there any other examples besides this one OXY, that you  
18 know of, that have approved similar -- would you say  
19 portions? -- within a project area for infill?  Wasn't  
20 there a Phillips not too long ago, Phillips Petroleum?

21          MR. KELLAHIN:  Yes, sir, there was a Phillips  
22 Petroleum one, and it was the East Vacuum-Glorieta unit and  
23 that was approved in November of 1993 by Order Number  
24 R-10,020, and there are some others, Mr. Examiner.

25          I have not updated my list recently, but --

1 EXAMINER STOGNER: But that list you're referring  
2 to is one that has been put out by, I believe, Jim Morrow  
3 before he left; is that correct?

4 MR. KELLAHIN: That's right, and there have been  
5 some additional cases since then that have followed the  
6 same process.

7 EXAMINER STOGNER: And I'll look on our own  
8 record.

9 MR. KELLAHIN: Yeah. Very quickly, there's a  
10 Phillips case; it's our 6856. And then -- That can't be  
11 right, that's not the right order number.

12 We can supply that to you.

13 There have been a Texaco, a Phillips and an OXY  
14 case, if I remember right.

15 EXAMINER STOGNER: All right. If there's nothing  
16 further in Case Number 11,168 --

17 MR. KELLAHIN: I've got a certificate of notice  
18 here for everybody, and it's Exhibit 4.

19 EXAMINER STOGNER: Exhibit 4. We have admitted  
20 this, right?

21 MR. KELLAHIN: No, sir, you have not yet.

22 EXAMINER STOGNER: This represents notification  
23 to the surface owners?

24 MR. KELLAHIN: And to the offset operators.

25 We notified the surface owners for each injection

1 well location, plus any operators within a half mile of any  
2 injection well.

3 EXAMINER STOGNER: Exhibit Number 4 will be  
4 admitted into evidence.

5 We'll take Case Number 11,168 under advisement at  
6 this time.

7 (Thereupon, these proceedings were concluded at  
8 3:50 p.m.)

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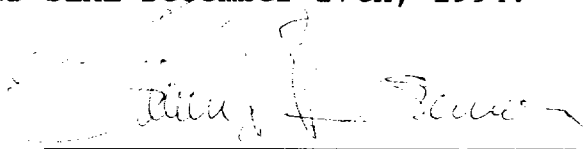
CERTIFICATE OF REPORTER

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 December 27th, 1994.



STEVEN T. BRENNER  
CCR No. 7

My commission expires: October 14, 1998  
I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 11168 heard by me on 15 December 1994



, Examiner  
Oil Conservation Division