

1 NEW MEXICO OIL CONSERVATION DIVISION

2 STATE LAND OFFICE BUILDING

3 STATE OF NEW MEXICO

4 CASE NO. 10971

5  
6 IN THE MATTER OF:

7  
8 The Application of Merrion Oil & Gas  
9 Corporation for a High Angle/Horizontal  
10 Directional Drilling Pilot Project and  
11 for the Promulgation of Special  
12 Operating Rules Therefor, Sandoval  
13 County, New Mexico  
14  
15

16 BEFORE:

17 MICHAEL E. STOGNER

18 Hearing Examiner

19 State Land Office Building

20 May 12, 1994  
21

22  
23 REPORTED BY:

24 CARLA DIANE RODRIGUEZ  
25 Certified Shorthand Reporter  
for the State of New Mexico

MAY 25 1994

ORIGINAL

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

FOR THE APPLICANT:

TANSEY, ROSEBROUGH, GERDING & STROTHER, P.C.  
 Post Office Box 1020  
 Farmington, New Mexico 87401-1020  
 BY: **B. TOMMY ROBERTS, ESQ.**

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1 EXAMINER STOGNER: And I'll call next  
2 case, No. 10971, which is the application of  
3 Merrion Oil & Gas Corporation for a high-angle,  
4 horizontal directional drilling pilot project and  
5 for the promulgations of special operating rules  
6 therefor, Sandoval County, New Mexico.

7 Call for appearances.

8 MR. ROBERTS: Mr. Examiner, my name's  
9 Tommy Roberts. I'm with the Tansey Law Firm in  
10 Farmington, New Mexico, appearing on behalf of  
11 the Applicant, and I have one witness to be  
12 sworn.

13 EXAMINER STOGNER: Is this witness the  
14 same one that's previously testified in the last  
15 two cases?

16 MR. ROBERTS: Yes, sir.

17 EXAMINER STOGNER: Let the record show  
18 that Mr. Sharpe has been previously sworn in Case  
19 10969, and remains under oath in this particular  
20 case.

21 Any other appearance? There being  
22 none, you may continue, Mr. Roberts.

23 **GEORGE SHARPE**

24 Having been previously duly sworn upon his oath,  
25 was examined and testified further as follows:

## EXAMINATION

BY MR. ROBERTS:

Q. Would you state your name and your place of residence for the record?

A. My name is George Sharpe. I live in Farmington, New Mexico.

MR. ROBERTS: Mr. Examiner, Mr. Sharpe has previously testified today in Case 10969 regarding his occupation and his qualifications as an expert, and we would ask that you take administrative notice of that testimony.

EXAMINER STOGNER: Administrative notice is so taken.

Q. Mr. Sharpe, would you briefly describe the purpose of this application.

A. The purpose of this application is to obtain approval for horizontal drilling in the Eagle Mesa Entrada Pool, and the setting up of an administrative procedure for future horizontal wells, and the approval of two proposed horizontal well locations at this time.

Q. Now, as I understand the application, it applies to the Eagle Mesa Entrada oil pool, and it's also your proposal that this drilling activity would take place within a unit that's

1       been formed by Merrion Oil & Gas Corporation?

2           A.       Yes, sir.

3           Q.       Would you identify that unit by name?

4           A.       That unit is the Eagle Mesa Secondary  
5       Unit.

6           Q.       Turn to what you have marked as  
7       Applicant's Exhibit No. 1, and please identify  
8       that exhibit.

9           A.       Exhibit No. 1 is a plat showing the  
10       leases involved in the unit, and the offset  
11       leases and the ownership of the offset leases.

12                   Cross-hatched in the exhibit is the  
13       Eagle Mesa Entrada Pool, which is comprised of  
14       four 40-acre sections.

15                   Also outlined on the exhibit is the  
16       unit boundary, which is 280 acres. The entire  
17       unit is owned by Merrion Oil & Gas, and the only  
18       leased offset is a federal lease owned by Yates  
19       Petroleum Company.

20           Q.       I would like to get into a little more  
21       detail regarding this exhibit. Identify  
22       specifically the acreage which comprises the  
23       pool.

24           A.       The pool is comprised by the southeast  
25       of the southeast of Section 11, the southwest of

1 the southwest of Section 12, northwest of the  
2 northwest of Section 13, and northeast of the  
3 northeast of Section 14, of Township 19 North,  
4 Range 4 West.

5 Q. I would like you to also describe  
6 specifically the acreage contained within the  
7 boundaries of the unit.

8 A. The unit includes the acreage  
9 previously described in the pool. In addition,  
10 it includes the southwest of the northwest of  
11 Section 13, the southeast of the northeast of  
12 Section 14, and the northwest of the northeast of  
13 Section 14, of 19 North, 4 West.

14 Q. Now identify the oil and gas leases  
15 which are contained in and which comprise the  
16 unit.

17 A. There are three oil and gas leases that  
18 are included in the unit boundaries. There's a  
19 single federal lease, NM-87227. That is the  
20 southeast of the southeast of 11 and the  
21 southwest and the southwest of 12.

22 There is an Indian lease,  
23 Indian-N002713, that is the northwest quarter of  
24 Section 13. And there's an Indian lease,  
25 N002717, that is the northeast of Section 14.

1           Q.       Is Merrion Oil & Gas Corporation the  
2 owner of the operating rights interest under  
3 these leases, insofar as they're contained within  
4 the pool boundaries and the unit boundaries?

5           A.       Yes.

6           Q.       Identify the offset operators or owners  
7 of offset leases.

8           A.       Merrion Oil & Gas owns two offset  
9 leases. One is an Indian lease, 11062, in the  
10 southeast of 14, and the other is a federal  
11 lease, NM-89870, in most of Section 11.

12                   In addition, Yates owns federal lease  
13 NM-59692, in the southwest of Section 12,  
14 excluding the southwest of the southwest, which  
15 is owned by Merrion.

16           Q.       It appears that Exhibit 1 depicts the  
17 locations of either four or five wellbores.  
18 Would you identify those wellbores by name?

19           A.       There are actually six wellbores shown  
20 on this diagram. In Section 11 there's the  
21 Federal 11C-2, which is a current injection well,  
22 disposal well. There's the Federal 11C-1, which  
23 is a plugged and abandoned Entrada well.

24                   There's a dry hole called the Federal  
25 12-1, which was drilled by Jordan, and there is a

1 plugged and abandoned Entrada well in Section 12,  
2 the Federal 12C-1. It is one of our proposed  
3 horizontal wells. We would reenter that wellbore  
4 and kickoff in a horizontal.

5 In Section 13 there's a single  
6 wellbore, Navajo 13C-1, and in Section 14 there's  
7 a single wellbore, the Navajo 14C-1. Both of  
8 those are current shut-in Entrada producers.  
9 Excuse me. The Navajo 14C-1 is being produced.

10 Q. Now, your application seeks approval in  
11 the alternative to utilize one of two wellbores  
12 for your horizontal operation. Would you  
13 identify again which two wellbores those are?

14 A. The two wellbores are identified on the  
15 exhibit. They are the Navajo 13C-1 and/or the  
16 Navajo 12C-1.

17 Q. The exhibit depicts a line emanating  
18 from those particular locations in a  
19 southwesterly direction. What does that line  
20 indicate?

21 A. That would indicate the proposed  
22 direction of our horizontal well.

23 Q. And would the end of that line depict  
24 the proposed bottomhole location for the  
25 wellbore?



1           A.       Yes.

2           Q.       What was the criteria for the selection  
3 of the Navajo 13C-1 and the Navajo 12C-1 as the  
4 alternative surface locations?

5           A.       That may be better shown when we get to  
6 the geologic section, but basically they are,  
7 from a geologic standpoint, the best entry points  
8 to go through and try to encounter any remaining  
9 oil.

10          Q.       Why do you seek approval today for  
11 these alternative locations, rather than seeking  
12 approval for one or the other?

13          A.       If we do one and it's successful, we  
14 may like to drill the other one in addition. And  
15 the risk associated with these two wells is  
16 different, and we haven't decided which risk  
17 we're more scared of and which one of these we  
18 want to drill yet.

19          Q.       Let me have you refer to your Exhibit  
20 No. 2, and I would ask you to identify that  
21 exhibit.

22          A.       Exhibit No. 2 is the secondary unit  
23 agreement for the Eagle Mesa Entrada field, and  
24 it describes the unit outline and basis for  
25 allocation of production within the unit.

1           Q.       What was the purpose of the formation  
2 of the unit? Can you describe the philosophical  
3 background in creating this unit?

4           A.       The Eagle Mesa Entrada field is on its  
5 last leg, from a primary production standpoint,  
6 and horizontal drilling and/or water injection  
7 would circumvent the lease boundaries and would  
8 require pooling of those different leases to  
9 share in the production from either horizontal  
10 drilling or water injection, and so it would set  
11 up for a secondary process.

12          Q.       Does the unit apply only to the Entrada  
13 formation?

14          A.       Yes, it does.

15          Q.       Is the proposed horizontal well being  
16 drilled pursuant to the Unit's plan of operation?

17          A.       It is not necessarily pursuant to the  
18 one that was submitted with this agreement. But  
19 it is pursuant--actually, even back in 91, we  
20 were looking at the 13C-1 as our best case  
21 horizontal well.

22          Q.       It's being drilled in a fashion  
23 consistent with the philosophy behind the  
24 establishment of the Unit?

25          A.       Yes.

1 Q. Does the unit agreement impose a  
2 drilling deadline?

3 A. There is now one; there was not one in  
4 the initial agreement. We have until September  
5 of this year to spud a horizontal well.

6 Q. Who is the owner of the working  
7 interest in the unit?

8 A. Merrion Oil & Gas.

9 Q. 100 percent?

10 A. 100 percent.

11 Q. The unit covers a federal lease and two  
12 Indian-allotted leases. Has the unit been  
13 approved by the Bureau of Indian Affairs?

14 A. Yes, it has.

15 Q. And has it been approved by the Bureau  
16 of Land Management?

17 A. Yes, it has.

18 Q. How will production be allocated under  
19 the terms of the unit agreement?

20 A. Production will be allocated on an  
21 acreage basis to the entire 280-acre unit, as  
22 shown in Exhibit B of the unit agreement.

23 Q. How many tracts are established under  
24 the terms of the unit?

25 A. Three tracts, comprising the federal

1 lease and the two Indian leases.

2 Q. So the tracts are co-extensive with the  
3 boundaries of the three separate leases, is that  
4 correct?

5 A. No. Actually, the tracts--the two  
6 Indian leases, the entire leases is not included  
7 in the unit or the tracts that are committed to  
8 the unit.

9 Q. But, insofar as those leases are  
10 contained within the unit, they are co-extensive  
11 with the tracts?

12 A. Yes.

13 Q. So, under this allocation formula, all  
14 acreage will receive an allocation of  
15 production? In other words, there are no  
16 participating areas that would be created  
17 pursuant to this agreement?

18 A. That is correct.

19 Q. Who is the designated operator of the  
20 unit?

21 A. Merrion Oil & Gas Corporation.

22 Q. Does the unit agreement contain any  
23 provisions which restrict the surface or  
24 bottomhole locations of a horizontal well?

25 A. The unit agreement does not.

1           Q.       I want you to refer to what you have  
2 marked as Exhibit No. 3, and identify that  
3 exhibit.

4           A.       Exhibit No. 3 is a structure map of the  
5 Eagle Mesa Entrada field, showing the well  
6 locations, showing the unit boundary, showing the  
7 outline of the net hydrocarbon pay. And also  
8 depicted on that diagram, again with lines  
9 emanating from the 12C-1 and the 13C-1 wellbores,  
10 are our proposed horizontal--possible horizontal  
11 wells.

12          Q.       What's the significance of the  
13 structure map?

14          A.       I guess the structure map and net pay  
15 map, as shown in Exhibit 4, would show that the  
16 peak of the structure would be crossed with the  
17 well from the 12C-1. In addition, there's a  
18 nose, as the structure noses to the south, which  
19 we feel is filled with hydrocarbons that we would  
20 be targeting with the Navajo 13C-1.

21          Q.       So, do Exhibits 3 and 4 contain your  
22 primary justification, in terms of geology, for  
23 the selection of these two wellbores for your  
24 horizontal operation?

25          A.       Exhibits 3 and 4 are the primary ones.

1 Exhibit 5 is kind of a cartoon cross-section of  
2 really what we're going after and why we're going  
3 after it. The nature of the recovery process,  
4 the reservoir drive mechanism in the Entrada,  
5 it's a very strong water drive and there's  
6 significant water coning around the wells, and  
7 the process leaves significant attic oil above  
8 the water cones that's unrecoverable with  
9 conventional, primary recovery.

10 We feel that horizontal wells will  
11 possibly help better drain this attic oil. A  
12 well drilled across the top of the structure will  
13 have a better drainage area than a vertical well  
14 would. So, the combination of Exhibits 3, 4 and  
15 5, kind of tell the picture of why we feel  
16 horizontal drilling is necessary to adequately  
17 recover the incremental oil left behind in the  
18 Eagle Mesa field.

19 Q. Exhibit No. 4 depicts a cross-section  
20 line from A to A', or A' to A. Is that, then,  
21 the cross-section that is illustrated on Exhibit  
22 No. 5?

23 A. Yes. Also shown on Exhibit 5, the  
24 cross-section, are the two wellbores and the  
25 proposed horizontal wells emanating from those

1 wellbores.

2 Q. Describe the procedures that will be  
3 followed in drilling and completing the  
4 horizontal wellbores, and describe that procedure  
5 for each of the alternative sites.

6 A. The general procedure will be to mill a  
7 window that will be using a short-radius drilling  
8 technique, where we come up 50 to 80 feet above  
9 the top of the Entrada, mill a window in the  
10 casing and, using short-radius techniques, drill  
11 out, intersect the Entrada within 50 to 100 feet  
12 of the wellbore, and then drill horizontally for  
13 approximately a thousand feet.

14 The only differences between the  
15 procedures for the 12C-1 and the 13C-1 is that  
16 the 12C-1 has been abandoned. It will require a  
17 little more work in preparing the well to mill  
18 the window and drill the horizontal section.

19 In addition, we're looking at a  
20 slightly shorter lateral extension in the 12C-1  
21 than the 13C-1.

22 Q. Has Merrion utilized horizontal  
23 drilling techniques in other Entrada pools?

24 A. We used a medium radius technique in  
25 the Papers Wash Secondary Unit and were

1 successful there. This is the first time we've  
2 tried a short-radius technique.

3 Q. Now refer to what you've marked as your  
4 Exhibit No. 6. Identify that exhibit and  
5 describe what it illustrates.

6 A. Exhibit No. 6 has two sets of  
7 economics. The first page is the economics of a  
8 short-radius horizontal well, with reserves of  
9 approximately 200,000 barrels. Page 2 of the  
10 exhibit is the economics of the vertical well,  
11 with an estimated half of the reserves, of  
12 100,000 barrels.

13 Q. Identify the parameters that you used  
14 as the basis for these economic analyses.

15 A. The critical parameters are, we assumed  
16 \$15,000 a month in operating expense. It's very  
17 expensive to produce Entrada because of the high  
18 water production, high lifting cost.

19 Beginning oil price of \$15 per barrel,  
20 with four-percent-per-year growth. Four percent  
21 growth in operating expense. Investment on the  
22 short-radius horizontal of \$380,000; and, on that  
23 basis, 200-barrel-a-day IP and 200,000 barrels of  
24 reserves, the short-radius horizontal would pay  
25 out in .7 years and generate 100 percent rate of



1 return.

2 Page 2, showing the vertical well, the  
3 only differences are the reserves, being 100,000  
4 barrels. And the investment, actually, would be  
5 a little greater for the vertical well because of  
6 the costs involved in drilling the vertical hole  
7 to approximately 6,000 feet, costs of \$400,000.

8 This well would pay out in 2.5 years.  
9 This would provide a positive rate of return, if  
10 it pays out. My economic run didn't cut off when  
11 it should, and ended up showing it negative. It  
12 would pay out in 2.5 years, but the rate of  
13 return would be approximately 15 percent for a  
14 horizontal well. Looking at the 15 percent  
15 discounted cash flow, once you plug the well,  
16 you're discounted cash flow is  
17 approximately--actually, you never get to a  
18 positive cash flow.

19 Q. Is this an exhibit that needs to be  
20 revised?

21 A. This is an ugly looking exhibit, and I  
22 need to revise it. But basically, looking at the  
23 cumulative profit, the very right-hand column at  
24 the bottom of the page, cum profit discounted, at  
25 no point do you ever get a positive 15 percent

1 discount of profit and, therefore, your rate of  
2 return would be less than 15 percent. Although  
3 you do pay out, you would have a very marginal  
4 rate of return and an uneconomic prospect.

5 MR. ROBERTS: Mr. Examiner, we would  
6 like to be able to submit a revised Exhibit No.  
7 6.

8 EXAMINER STOGNER: You may, at a later  
9 date.

10 Q. Mr. Sharpe, what conclusions do you  
11 draw, then, in a comparative analysis of drilling  
12 a horizontal well versus a vertical well in this  
13 area?

14 A. The horizontal well is, we feel, the  
15 only economic means to recover the remaining  
16 reserves in this field.

17 Q. Do you have an opinion as to the  
18 comparative risk involved in drilling a  
19 horizontal well versus drilling a vertical well  
20 in this area?

21 A. The risks are different. I would think  
22 that the costs associated with a horizontal dry  
23 hole are comparable to the costs associated with  
24 a vertical dry hole. However, because you're  
25 starting close to your well and going out, you

1 have less geologic risk with a short-radius  
2 horizontal. You have greater drainage risks that  
3 you'll intersect one of your water cones, so the  
4 risks are different.

5 Again, we feel that, in general, the  
6 risks for the horizontal, the geologic risks are  
7 more unknown than are the drainage risks.

8 Q. Before we move on to another topic, let  
9 me just ask you to real briefly summarize the  
10 advantages of horizontal drilling in this area,  
11 as you see it?

12 A. There are two major advantages. One,  
13 you're able to have a longer extended wellbore  
14 along the top of the structure, which will  
15 minimize the water coning, which is a significant  
16 problem in the field.

17 The second advantage is also associated  
18 with that. When your water does cone, and it  
19 will eventually cone to these wells, it will be  
20 sweeping a larger area and pushing more reserves  
21 to your well than you would get on the vertical  
22 well.

23 Q. Let me have you refer to what's been  
24 marked as Exhibit No. 7. Would you identify that  
25 exhibit?

1           A.       Exhibit No. 7 is a plat which shows the  
2 unit boundary, the well locations in the field,  
3 and depicted on the plat are two target areas,  
4 one for the 12C-1H and one for the 13C-1H,  
5 horizontal wells.

6           Q.       Are these target areas depicted by a  
7 rectangular shape and the cross-hatching?

8           A.       They are.

9           Q.       Why is it necessary to create a target  
10 area?

11          A.       It is necessary to have some leeway in  
12 where your well will go. You cannot control it  
13 to a specific line. You need to have room for  
14 that well to wander. The costs of keeping a well  
15 on a very specific line would be onerous.

16                 In addition, we may make some decisions  
17 along the way, depending on what we're seeing  
18 while we're drilling, that would cause us to,  
19 perhaps, change the direction of the well. Those  
20 are the mechanical reasons. I guess there are  
21 probably some legal reasons, too.

22          Q.       On what basis did you establish the  
23 target area for each of these wellbores?

24          A.       We established the target area on the  
25 basis to give us whatever leeway we would need in

1 the drilling of these wells, to keep us  
2 mechanically--give us the leeway we would need to  
3 drill these as we would see fit.

4 We also, from a legal standpoint, we  
5 kept in our targets, a distance greater than 300  
6 feet from the outer boundary of the unit.

7 Q. How will you determine that the  
8 bottomhole locations are within the boundaries of  
9 the target areas?

10 A. We will run surveys of the wells.

11 Q. Standard procedure?

12 A. Standard procedure to run surveys.

13 Q. What depth bracket allowable have been  
14 established for the wells drilled in the Eagle  
15 Mesa Entrada Oil Pool, pursuant to the pool  
16 rules?

17 A. My understanding is that a depth  
18 bracket allowable of 700 barrels per day has been  
19 established for Eagle Mesa.

20 Q. Is that based on statewide oil spacing  
21 of 40 acres?

22 A. Yes.

23 MR. ROBERTS: For the record, Mr.  
24 Examiner, I believe that the pool reflects that  
25 the allowable is 750 barrels per day.

1           Q.       Do you have a recommendation for a  
2 depth bracket allowable for horizontal wells  
3 drilled within the boundaries of the unit?

4           A.       I would recommend that the depth  
5 bracket allowable be set based on how many  
6 40-acre tracts are intersected by the horizontal  
7 wells. If a horizontal well is within one  
8 40-acre tract, then the depth bracket allowable  
9 would remain at 750 barrels per day.

10                   If two or or more 40-acre tracts are  
11 intersected by the horizontal well, then the  
12 depth bracket allowable will be increased  
13 proportionately.

14           Q.       Do you have a proposal for an  
15 administrative procedure for the authorization of  
16 future horizontal wells that might be drilled  
17 within the boundaries of the unit?

18           A.       We would propose that we would be  
19 allowed to submit a letter showing that our  
20 target area is no closer than 330 feet to the  
21 outer boundary, and showing that we were going to  
22 drill our horizontal well within the Entrada  
23 Pool, and describing how many 40-acre tracts we  
24 would intersect; and, on that basis, be able to  
25 receive administrative approval for the drilling

1 of that well and for an allowable for that well.

2 Q. Would you suggest a notice provision as  
3 a part of that administrative procedure?

4 A. I would suggest that our offset  
5 leaseholders and operators receive copies of the  
6 application, and have 20 days to respond.

7 Q. If no objection is received, the OCD  
8 could then go ahead and act on it  
9 administratively?

10 A. Yes.

11 Q. Let me have you refer to the last  
12 exhibit in this package, Exhibit No. 8, and I  
13 would ask you to identify that exhibit.

14 A. Exhibit 8 is an affidavit stating that  
15 the offset owners and lease operators were  
16 notified and received copies of this  
17 application. Those owners are Yates Petroleum  
18 Company, Bureau of Land Management, and the  
19 Bureau of Indian Affairs.

20 Also attached are copies of the  
21 certified letters that were sent to those  
22 individuals. And the last page is a copy of the  
23 return receipts, indicating that those  
24 individuals received notification on April 20th,  
25 April 20th and April 21st.

1           Q.       What were the dates of the letters to  
2 these parties?

3           A.       The dates of the letters were April  
4 18th. They were mailed out April 19, 1994.

5           Q.       Did you have any responses to these  
6 items of correspondence?

7           A.       Did not.

8           Q.       In your opinion, have the notice  
9 requirements of the Oil Conservation Division  
10 been satisfied with respect to a case of this  
11 type?

12          A.       Yes, they have.

13          Q.       Mr. Sharpe, in your opinion, will the  
14 granting of this application be in the best  
15 interests of conservation, result in the  
16 prevention of waste and the protection of  
17 correlative rights?

18          A.       Yes, it will.

19          Q.       Were Exhibit Nos. 1 through 8 either  
20 prepared by you or under your direction and  
21 supervision?

22          A.       Yes, sir.

23                 MR. ROBERTS: We move the admission of  
24 Exhibit Nos. 1 through 8.

25                 EXAMINER STOGNER: Exhibits 1 through 8



1 will be admitted into evidence.

2 MR. ROBERTS: I have no other questions  
3 on direct.

4 EXAMINATION

5 BY EXAMINER STOGNER:

6 Q. Mr. Sharpe, is it Merrion's proposal to  
7 drill both of these wells, or just one?

8 A. We would like to have the ability to  
9 drill both wells. We would anticipate drilling  
10 one and evaluating, certainly.

11 Q. Do you ever see the possibility of  
12 drilling the third or fourth one?

13 A. Yes. Again, looking at Exhibit 4 and  
14 Exhibit 3, should we prove up the south lobe of  
15 the structure, we feel that more drilling may be  
16 warranted on the southern end.

17 Q. Okay. And referring to your Exhibit  
18 No. 5, this is, essentially, like the other  
19 Entrada formations you've had up there, which is  
20 essentially a subterranean sand dune feature?

21 A. Yes, sir. We hope our wells will be  
22 different, but the dune's the same.

23 EXAMINER STOGNER: Any other questions  
24 of this witness?

25 MR. ROBERTS: No, sir.

1 EXAMINER STOGNER: You may be excused.  
2 With the exception of an amended Exhibit No. 6,  
3 this case will be taken under advisement.

4 Let's take a 20-minute recess.

5 (And the proceedings concluded.)  
6  
7  
8  
9  
10  
11  
12  
13

14 I do hereby certify that the foregoing is  
15 a complete record of the proceedings in  
16 the Examiner hearing of Case No. 10971,  
17 heard by me on 12 May 1994 :

Michael E. Stogner, Examiner  
Oil Conservation Division  
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## CERTIFICATE OF REPORTER

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

I, Carla Diane Rodriguez, Certified  
Shorthand Reporter and Notary Public, HEREBY  
CERTIFY that the foregoing transcript of  
proceedings before the Oil Conservation Division  
was reported by me; that I caused my notes to be  
transcribed under my personal supervision; 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 May 20, 1994.

  
CARLA DIANE RODRIGUEZ, RPR  
CCR No. 4