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. 12,359

APPLICATION OF MARBOB ENERGY CORPORATION)
FOR COMPULSORY POOLING, EDDY COUNTY,)
NEW MEXICO)

ORIGINAL

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner

March 16th, 2000

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, DAVID R. CATANACH, Hearing Examiner, on Thursday, March 16th, 2000, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, 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 DIVISION:

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FOR THE APPLICANT:

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Santa Fe, New Mexico 87504-2208
By: PAUL R. OWEN

* * *

1 WHEREUPON, the following proceedings were had at 2 10:31 a.m.: EXAMINER CATANACH: At this time I'll call Case 3 12,359, the Application of Marbob Energy Corporation for 4 compulsory pooling, Eddy County, New Mexico. 5 Call for appearances in this case. 6 Paul R. Owen of the Santa Fe law firm 7 MR. CARR: 8 of Campbell, Carr, Berge and Sheridan, appearing on behalf of the Applicant, Marbob Energy Corporation. 9 I have two 10 witnesses in this matter; they were previously sworn. 11 EXAMINER CATANACH: Any additional appearances? 12 There being none, let the record show that the 13 witnesses have previously been qualified and sworn in. And you may proceed, Mr. Owen. 14 MR. OWEN: Thank you, Mr. Examiner. My first 15 16 witness in this matter is Mr. Raye Miller. 17 RAYE P. MILLER, 18 the witness herein, after been previously duly sworn upon his oath, was examined and testified as follows: 19 DIRECT EXAMINATION 20 21 BY MR. OWEN: Mr. Miller, again, once again, would you please 22 Q. tell us your name and spell your first name? 23 My name is Raye Paul Miller, spelled R-a-y-e. 24 Α. And you still live in Artesia? 25 Q.

- A. Yeah, still bleed orange.
- Q. Do you still work for Marbob?
- A. Yes, sir.

MR. OWEN: Mr. Examiner, I reiterate, Mr. Miller was qualified, previously qualified, as an expert practical oilman.

- Q. (By Mr. Owen) Mr. Miller, are you familiar with the Application filed in this case?
 - A. Oh, yes, sir.
- Q. And are you familiar with the lands in the subject area?
- 12 A. Yes, sir, I am.
 - Q. Would you tell us what Marbob seeks in this case?
 - A. Basically Marbob is seeking an order pooling all the minerals from the top of the Wolfcamp formation to the base of the Morrow formation in the east half of Section 16, Township 18 [sic] South, Range 28 East. We would ask that it be dedicated to our Scoggin Draw State "C" Com Number 2, to be drilled at a standard location 1020 feet from the north line, and 1950 feet from the east line of said Section 16 of 18-27.
 - Q. Mr. Miller, for the record, in the name of the well, the Scoggin Draw State "C" Com Well Number 2, is Scoggin spelled S-c-o-g-g-i-n?
 - A. Yeah, I keep trying to add an R, but that's

correct.

- Q. Okay. Mr. Miller, have you prepared certain exhibits for presentation in this case?
 - A. Yes, sir, I have.
- Q. Why don't we go to Marbob Exhibit Number 1. Tell the Examiner about that exhibit, please.
- A. This exhibit basically again just shows the spacing and proration unit, it shows the proposed well location, and it's taken again off of the Midland Map, which basically shows some of the ownership in the area.

The dark lines indicate that this falls in a portion of the Empire Abo Unit there in Eddy County, New Mexico.

- Q. All right, and does Exhibit Number 2 provide an overview of the interest breakdown within that spacing unit?
- A. Yes, it does. I failed to mention previously that our primary objective on the well is actually the Atoka-Morrow, and this would be in the Red Lake-Atoka-Morrow Pool.

Number 2 identifies the four different state leases that are actually involved, and this is the exhibit that I kind of hoped nobody was color blind on.

It winds up identifying that as to all the tracts except for the green lease, Marbob and its partners own the

interest that is being considered in this matter, and do own the rights in the Atoka-Morrow and as to depths below the top of the Wolfcamp.

This is, actually, a second well in this proration unit. The Number 1 well that is producing does show there in the northwest of the southeast of the section on the plat.

- Q. And Mr. Miller, in this case as in the last one, is it Exxon Mobil that has failed to join in this project?
- A. Yes, sir. It winds up being a thing where everyone else is covered under a JOA and is included in the proposal. The Exxon Mobil interest was actually contained in the Number 1 well under a prior force pooling.
- Q. Outside of the Exxon Mobil interest which is uncommitted, what percentage of the acreage in the subject area is committed to the project?
 - A. One hundred percent.

- Q. Okay. Why don't you tell us what you tried to do to get Exxon voluntary joinder?
- A. Well, we were a little unsure as to exactly what the status was because of the fact that the first well is still producing. It's not a large producer, but it is still producing out of the Morrow formation. That well was originally drilled by Oryx, and we were partners with Oryx.

And when we looked at drilling this second well,

we initially did some research and determined that we probably needed to at least contact Exxon to see if they would want to join with their 25-percent interest in this well. And as a result, we sent -- or we prepared an AFE and sent it to Exxon on December 28th of last year. It was sent to Mr. Bob Mathew there in their Houston office.

It wound up being a thing where, when I talked with Mr. Keffer regarding the previous case and we were discussing it, he asked me -- of course that was in Section 15 of 17-35 -- he said, Well, I also have your deal in Section 16.

Well, I was thinking the Section 16 adjoining 15, and, you know, I mean he just had me totally lost. And then he goes, No, no, the one over in Eddy County. And he was actually referring to the project that we have under this Application.

And we -- Well, before that point we actually did change the physical location that we initially AFE'd them on, because the initial location had some surface problems where it was not drillable, and so there was a second correspondence that we sent to them on January 7th, describing the change in the location.

But in my conversation with Mr. Keffer there in the latter part of January, he indicated that he was also the person handling that AFE or our request, and we discussed what might be acceptable terms to Exxon. He again indicated he didn't believe they would be interested in participating but that they might be interested in actually doing a term assignment with us on their interest.

There was a term assignment that had been done by Exxon on this acreage to Atlantic Richfield a few years ago, which we were aware of because of a joint venture that we had with Atlantic Richfield Company.

And as a result, we went to our management and indicated what terms Exxon would like to have, and we proposed those terms as a term assignment on our January 24th correspondence to Mr. Keffer.

- Q. And has Exxon accepted those terms?
- A. No, sir, at this point we have heard nothing from Exxon officially.
- Q. Do you anticipate that Exxon's problems which you -- internal problems dealing with approval which you outlined in the previous case will be encountered in this case as well?
- A. No, sir, actually they're not. The previous case was actually a Mobil lease, and this lease is actually an Exxon lease, and so the normal channels inside Exxon could be done on this lease to where it is possible that they may decide to either join or do a term assignment type of deal wit

us. The problem that we had was the fact that since Oryx had already force pooled them once on this and the fact that we were looking at having a force pooling with them on the other lease, we didn't figure there was any point in stewing for two or three more months, waiting on Exxon to then find out that I couldn't get them off center.

So we decided, since we were going to be here anyway, we might as well do number two.

- Q. Now, if Exxon accepts the offer which I believe is set forth in the top letter reflected on Marbob Exhibit Number 3, will that constitute your agreement with Exxon?
- A. We would be happy to have a term assignment from Exxon or to have them participate in the well, either way.
- Q. Okay. And in fact, is Marbob Exhibit Number 3 the letters between you and Exxon reflecting your efforts to obtain voluntary joinder?
- A. Yes, sir, it is. I will point out -- and one of the things that may cause them some problem is, in our January 24th letter, the conditions on which we asked for the term assignment, I had a copy of the Exxon-ARCO term assignment on this acreage, and we believe that calls on production have to be market or competitive calls, and as a result we requested that change from their previous documents.

- Q. Okay. Now, Mr. Miller, based on your experience as a practical oilman, have you made a good-faith effort to obtain the voluntary joinder of Exxon Mobil in this project?
 - A. Yes, we have.

- Q. Now, is Marbob Exhibit Number 4 the JOA which your other partners have executed in this case?
- A. Yes. Marbob Exhibit Number 4 is actually the JOA which was prepared by Oryx in 1990 for the drilling of the Number 1 well, and the parties who joined under that JOA were Oryx, Bulldog Energy, Richard Chase, Robert Chase, David Martin, myself and John R. Gray.

And all of the parties who are now currently owners outside of Exxon Mobil are either these parties or successors to these parties. In other words, currently Oryx and Robert Chase do not have an interest, but the successors were assigned their interest subject to this JOA.

- Q. Mr. Miller, once again I want to take an exhibit out of order here. The last exhibit in the exhibit pack which I have submitted is Marbob Exhibit Number 12, the AFE. Is this the same AFE which you submitted to Exxon Mobil on December 28th, 1999?
- A. Yes, sir, it is. And unlike our extremely well crafted AFE on the previous case, this one was prepared by

myself.

- Q. And would you tell us what the totals for a dry hole and completed wells reflected on that exhibit are?
- A. The total well cost for a dry hole is expected to be \$486,400, and the completed well cost of \$821,700.
- Q. Are these costs in line with what's charged by other operators for similar wells in the area?
- A. Yes, sir, they are. In fact, part of my work in preparing this AFE was from other AFEs that other operators drilling in this same area have submitted to us.
- Q. And have you also made an estimate of the overhead and administrative costs while drilling the well and while producing it, if it is successful?
- A. The overhead rate that we would ask for, for drilling overhead, is of \$5250, and the producing overhead rate of \$525. The reasons for those requests, those are the overhead rates that were contained in the previous force pooling order that was entered into several years ago.
- Q. The previous force pooling order to which you're referring, is that the order applying to the Scoggin Draw State "C" Com Number 1 in the same spacing unit in which you're seeking to drill this well?
 - A. Yes, sir, it is.
 - Q. Okay, and is that Order Number R-9071?

1 Α. Yes, sir. Entered December 14th, 1989? 2 Q. That's correct. 3 Α. And those, in fact, the administrative and 4 ο. 5 overhead costs which have been charged for that Scoggin Draw State "C" Com Number 1? 6 7 Α. Yes, sir. 8 Q. Okay. Do you recommend that these figures be 9 incorporated into any order which results from this 10 hearing? 11 Α. We would. And again, I don't think we request 12 any increase in those rates, because they certainly cover 13 what cost we see as a producing rate on this well. 14 Q. And Mr. Miller, does Marbob seek to be the designated operator of this well? 15 16 Yes, sir. It makes sense, since we are of the A. 17 Number 1. 18 All right, now let's turn to Marbob Exhibit 0. Number 5. Is that an affidavit with a notice letter 19 20 attached to the notice of the hearing today? 21 Yeah, and I probably won't testify I created it, Α. since you put the other page that was switched. 22 MR. OWEN: Mr. Examiner, for the record I do note 23

that it appears that once again my error resulted in the

Exhibit A to these affidavits being switched from this

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1 exhibit and the exhibit in the previous case. And with 2 your permission, I can switch those out following the 3 hearing, Mr. Examiner. 4 EXAMINER CATANACH: We can do that. 5 Q. (By Mr. Owen) Okay. Mr. Miller, is Marbob 6 anticipating calling a geologic witness to review the 7 technical portion of this case? 8 Yes, sir, we are. Α. Okay. Mr. Miller, were Exhibits 1 through 5 and 9 0. Exhibit Number --10 11 Α. -- 12 --12 -- 12 in this case prepared by you or under your direction and supervision? 13 14 Yes, they are. Α. MR. OWEN: Mr. Examiner, I move the admission 15 into evidence of Marbob Exhibits Numbers 1 through 5 and 16 17 12. EXAMINER CATANACH: Exhibits 1 through 5 and 12 18 will be admitted as evidence. 19 20 MR. OWEN: That concludes my examination of Mr. 21 Miller. Do you have any --22 EXAMINER CATANACH: Sure --23 MR. OWEN: -- questions of him? EXAMINER CATANACH: -- I can't let him off that 24 25 easy.

15 1 EXAMINATION 2 BY EXAMINER CATANACH: Mr. Miller, what's Exxon's percentage interest in 3 this well? 4 5 Α. They actually own 100 percent of the leasehold rights in the west half of the northwest quarter, which 6 7 would be 80 acres of the 320, and so they would actually 8 have a 25-percent working interest. 9 I believe our research indicated they had an 10 82-1/2-percent net revenue against their interest. 11 Okay. Now, you guys do operate the Number 1 Q. 12 well; is that -- Did I hear correctly? 13 Α. Yes, sir, that is correct. Okay. And all of the other interest owners 14 0. 15 within that section are effectively committed by virtue of executing the operating agreement? 16 17 Α. Yes, sir. They're committed to this second well? 18 Q. 19 Yes, sir. They have their option to participate Α. 20 or go nonconsent. 21 Q. Okay. 22 It is four state leases, and those leases were

Okay, is there any significance as to the pooled

derived by Oryx from farmouts by Altura, three individuals,

(505) 989-9317

and Chevron's predecessor, I believe, Gulf.

23

24

25

Q.

interval, the top of the Wolfcamp to the base of the Morrow? Is that just for basically anything on 320?

A. It is, and it relates to the fact that, you know the shallower depths are actually committed to the Empire-Abo unit over most of that proration unit.

And as a result, you know, in the previous application by Oryx, they had no rights above the top of the Wolfcamp.

Their well, when it was drilled, did not actually encounter any productive horizons outside of the Morrow, and the Morrow was fairly marginal as a producer also.

Extremely marginal, they sold it to us.

- Q. Okay. Is that the same interval that the operating agreement calls --
- A. I would assume so because of the fact that they did it and didn't review it. Maybe we can look at it right now.

Yeah, it's -- The base of the Abo is what the operating agreement covers to the total depth of the initial well. The well was drilled to basically the base of the Morrow.

Q. Okay, nothing further.

MR. OWEN: Mr. Examiner, that concludes my examination of Mr. Miller, and I call as my second witness in this matter Mr. Martin Joyce.

1	MARTIN K. JOYCE,
2	the witness herein, having been previously duly sworn upon
3	his oath, was examined and testified as follows:
4	DIRECT EXAMINATION
5	BY MR. OWEN:
6	Q. Mr. Joyce, once again would you tell us your
7	name?
8	A. Martin K. Joyce.
9	Q. And do you still live in Artesia?
10	A. No, I live in Roswell.
11	Q. You live in Roswell?
12	A. Yes.
13	Q. That's right.
14	A. But I still
15	Q. You still work for Marbob?
16	A. Earlier, I did.
17	Q. Okay. What do you do for Marbob?
18	A. I am their geologist and computer systems
19	analyst.
20	MR. OWEN: Mr. Examiner, I note for the record
21	that you have previously accepted Mr. Joyce's credentials
22	as a petroleum geologist.
23	Q. (By Mr. Owen) Mr. Joyce, have you made a
24	geologic study of the area which is the subject of this
25	Application?

A. Yes, I have.

- Q. Are you prepared to share the results of that study with the Examiner?
 - A. Yes, I am.
- Q. Have you prepared exhibits for presentation in this case?
 - A. I have.
- Q. Let's go ahead and turn to Marbob Exhibit Number 6. Can you tell us about that exhibit, please?
- A. Okay, basically that's just kind of a wideranging view of our Scoggin Draw "C" Com Number 2 east half
 spacing unit in the yellow. The well is circled in the
 red. It's very small at this scale, my apologies. The
 high well density to the north is a mix of Grayburg, San
 Andres, Abo and Morrow wells.
- Q. All right, and is Exhibit Number 7 a closer look at this same area?
- A. Exhibit Number 7 is actually the same scale, but the wells are depth-filtered. All wells on this page are wells that are drilled below 8000 feet, just basically showing Morrow attempts in this part of the world.

Also exhibited on this cross-section are -posted are well cumulative production and lines of crosssection. And I started out with five cross-sections, and
we ended up with one for the presentation here, and it will

be the line E-E' that cuts from the southwest to the northeast up across Section 16.

- Q. Now, in fact, Mr. Joyce, you did not bring the other cross-sections and do not anticipate presenting them in this case; is that correct?
 - A. No.

- Q. Okay. Now, let's turn to Marbob Exhibit Number 8. Can you tell us about that exhibit?
- A. This is something that you can read here, a detail map. Again, the production cumulatives are posted here, current well status, and also the producing horizon.

As you'll notice, these are -- All but one of these are producing Morrow wells. There's a weak Strawn well down in Section 21, the Midwest HH Com. It's produced 26 million cubic feet of gas from the Strawn, and the rest are active or inactive Morrow wells.

- Q. And the rest of these wells, if I remember your cross-section correctly, reflected about -- Exhibit Number 16 [sic], going from the northeast to the southwest, are those reflected on the cross-section which is Exhibit Number 9?
- A. Yes, the cross-section covers the three wells, the Red Lake State Number 1, Scoggin Draw State Number 1 "C", and the Malco Number 1.
 - Q. Okay, why don't we go ahead and turn to Marbob

Exhibit 9 and review that cross-section for the Examiner, please?

A. Okay, this is, again, a stratigraphic crosssection turning from the southwest to the northeast. This
one, the datum is the base of what we locally call the
massive shale. It's a thick shale marker between the
middle and the lower Morrow interval. It's a common
mapping marker in this part of Eddy County.

Also, this cross-section illustrates perfs in the producing intervals, in the two -- well, actually in the two active wells, the Mewbourne Red Lakes well and our Scoggin Draw State.

Generally, in this area, the lower or Morrow "C" sands are the most prolific producing horizon. The Scoggin Draw happens to be a "B" sand well. Like I say, it's just pretty unusual in this area. There are -- "B" sand wells are common in this part of Eddy County, but within this township and range, the most prolific producing horizon is the lower "C" interval.

- Q. All right. And let's go ahead and look at your structure and isopach maps. Tell us about Exhibit Number 10, please.
- A. Okay, Number 10 is just simply a structure contour map at the base of this massive shale. Generally southeast regional dips. You do see a little bit of nosing

there, and on the northeast -- or excuse me, the northwest corner of Section 15, the Malco dry well that's -- It was not completed. The Malco well was up on top of that structure.

Generally, structuring is not real important in this part of Eddy County. But you make the wells where you make them.

- Q. All right. And does Exhibit Number 11, your isopach there, show data that's a little more important to your objective?
- A. Exhibit 11 is an isopach of the lower Morrow or "C" interval, and it's common. This is the most common map type you see in this part of Eddy County. What we're seeing on this particular isopach is a thick that develops in a northwest-southeast trend across Section 15, and there's a thin that develops northwest-southeast across Section 21.

And what we generally see for producing wells, the wells are most prolific, the sands are the thickest, and they develop in these "C" interval thicks. So we're looking at a high on the southwest there dipping down into that low up to the northeast.

Q. Now, Mr. Joyce, based on your geologic study, are you prepared to make a recommendation to the Examiner as to the risk penalty that should be assessed against the

nonconsenting interest owners?

1.8

- A. Two hundred percent.
- Q. What do you base that recommendation on?
- A. Again, three factors, the first being an industry standard.

The second are geological risks. In this case we feel like we won't have any problem finding sands, but the reservoir quality will probably be the largest risk in this case. Permeability and porosity, there are problems in this part of the township. We're hoping to find good enough porosity and perm to make a decent well.

The third factor, the well statistics in that nine-square-mile area, you have basically 14 Morrow penetrations. Four of those are flat dry holes, five wells have made from 1 to 1.5 BCF, and five other wells have made less than a half a BCF. What we're looking at is about a 35-percent chance of drilling an economically successful well here and a 28-percent chance of drilling a dry hole.

- Q. So based on your percentages there, is there a good chance that you could drill a well at the proposed location that will not be a commercial success?
- A. As I stated, approximately a 35-percent of drilling a -- or, excuse me, a 28-percent chance of drilling a noneconomic well.
 - Q. Okay. Mr. Joyce, in your opinion will granting

this Application be in the best interest of conservation, 1 2 the prevention of waste and the protection of correlative 3 rights? Α. Yes, it will. 4 5 Is there anything you wish to add to your Q. presentation? 6 7 Α. No, there isn't. Okay. Mr. Joyce, were Marbob Exhibits 6 through 8 Q. 11 prepared by you or compiled under your direction or 9 10 supervision? 11 Yes, they were. Α. 12 MR. OWEN: Mr. Examiner, I move the introduction 13 into evidence of Marbob Exhibits Numbers 6 through 11. EXAMINER CATANACH: Exhibits 6 through 11 will be 14 15 admitted as evidence. 16 MR. OWEN: That concludes my examination of Mr. 17 Joyce. 18 EXAMINER CATANACH: I have no questions of this 19 witness. 20 That concludes my presentation in this MR. OWEN: 21 We ask that this matter be taken under advisement 22 and an order be issued granting Marbob's Application in 23 this case. EXAMINER CATANACH: If I could, I've got a couple 24

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of questions for Mr. Miller.

RAYE P. MILLER (Recalled),

the witness herein, after been previously duly sworn upon his oath, was examined and testified as follows:

EXAMINATION

BY EXAMINER CATANACH:

- Q. Mr. Miller, do you know if the -- I believe you testified that the Number 1 well was initially -- Exxon's interest was initially pooled by Oryx?
 - A. Oryx or the partners to the JOA, yes, sir.
- Q. Do you know, in fact, if that well has paid out and the penalty has paid out on that well?
- A. No, sir, it has not. The Number 1 well lacks payout of the initial cost to complete and operate, much less the additional penalty.

And the reason I know that is because under the terms of some of the farmout agreements, there were a couple farmout agreements which actually triggered a higher overriding royalty at a recovery of 100 percent of Oryx's cost, and so we track that payout monthly and send statements to a couple of parties, and it has not occurred.

- Q. Now, tell me how it's going to work with two wells on the unit. Are you going to keep the production separate and all of the accounting separate on those two wells?
 - A. Yes, sir. It winds up being a thing where the

1 gas contract which covers the Number 1 well actually is limited to that well. It does not cover, and it has passed 2 its primary term. That well is currently delivering into 3 4 GPM's low-pressure gathering system and has no other 5 facilities on location. I mean, it flows directly into their line. 6 7 We anticipate that if the Number 2 is drilled and 8 successful, that we would have separate production 9 facilities and that we would seek the best gas contract and 10 possibly a high pressure contract from -- there are several 11 gas lines in this area -- for that well. And as a result, 12 production facilities would be separate for it. 13 EXAMINER CATANACH: Okay. 14 EXAMINATION 15 BY MR. OWEN: Mr. Miller, if the Number 2 well is successful, 16 Q. will you seek to recover the penalty for the Number 1 well 17 18 out of the proceeds from the Number 2 well? 19 Α. No, sir, we just ask for the penalty for the Number 2 well. 20 21 MR. OWEN: Okay. 22 EXAMINER CATANACH: Okay. 23 THE WITNESS: We hope that they come to terms. 24 Cautiously optimistic, at least on this one. 25 That concludes my presentation in this MR. OWEN:

1	case, Mr. Examiner.
2	EXAMINER CATANACH: Okay, there being nothing
3	further in this case, Case 12,359 will be taken under
4	advisement.
5	And this hearing is adjourned.
6	(Thereupon, these proceedings were concluded at
7	11:00 a.m.)
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15	the hereby certity that the foregoing is a complete record of the proceedings in the complete record of the complete recor
16	the Examiner hearing of cuse (10 20).
17	heard by me on / tach to Examiner
18	Of Conservation Division
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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 March 21st, 2000.

STEVEN T. BRENNER

CCR No. 7

My commission expires: October 14, 2002