STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

28 September 1988

EXAMINER HEARING

IN THE MATTER OF:

Application of Foran Oil Company for simultaneous dedication, Chaves County, New Mexico. CASE 9491

BEFORE: Michael E. Stogner, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Division: Robert G. Stovall
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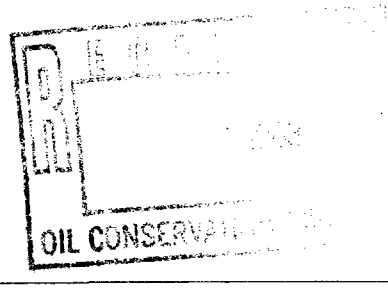

I N D E X

E X H I B I T S

MR. STOGNER: Call next Case Number 9491. Application of Foran Oil Company for simultaneous dedication, Chaves County, New Mexico.

Call for appearances.

MR. KELLAHIN: Mr. Stogner, I'm Tom Kellahin of the Santa Fe law firm of Kellahin, Kellahin & Aubrey. I'm appearing on behalf of Foran Oil Company and I have two witnesses to be sworn.

MR. STOGNER: Are there any other appearances?

There being none, will the witnesses please stand and be sworn?

(Witnesses sworn.)

Mr. Kellahin?

MR. KELLAHIN: Thank you, Mr. Examiner.

JOE COMPTON,

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

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

A My name is Joe Compton and my occupation is geologist.

Q Mr. Compton, as a geologist have you previously testified before the Oil Conservation Division?

A No, I haven't.

Q Would you take a few moments, sir, and first of all describe when and where you obtained your geologic degree?

A I graduated from Texas Tech University in 1975 with a Masters degree.

I also -- my Bachelor of Science degree is from Texas Tech, also.

Q Subsequent to graduation, would you summarize your work experience as a petroleum geologist?

A Upon graduation in 1975 I went to work for ARCO Oil and Gas Company. I worked for them until 1981 when I went to work for Mesa Petroleum Company. I worked for them until late '85, early '86, I don't remember, and I've been an independent since that time and I have my own company now and I'm on a retainer for Foran, representing them.

Q Where do you currently reside?

A In Midland, Texas.

Q Pursuant to your employment as a consultant for Foran Oil Company, have you made a geologic study of this particular area and of the application today?

A Yes, I have. In fact, I was involved in the development of this area with Mesa Petroleum.

Q Let me have you take Exhibit Number One and first of all identify that exhibit.

A Okay. Exhibit Number One is a structure map on the top of the Morrow prepared by myself, and it encompasses the area in question. The Section 36 is in the center of the exhibit, in 15, Township 15 South, 27 east.

Q Let's find some of the key wells that you've used for control in developing the structure map. First of all, in Section 36 you have in the northwest quarter an existing well. How do we identify that well?

A Okay. The well that's located in the northwest quarter of Section 36 is the Foran ET State No. 1.

Q This is the current well that's dedicated to the west half of Section 36?

A That's correct.

Q And it currently is producing out of the Morrow formation?

A That's correct.

Q And it's this well that Mr. Foran

desires to recomplete in the Atoka portion of this pool?

A Yes.

Q And then drill a replacement well in the southwest quarter?

A Correct.

Q Have you made a geologic study to determine whether or not in your opinion there ought to be a well drilled in the southwest quarter?

A Yes. I've done a fairly extensive amount of work in the area and the work that culminates in these exhibits here involves correlating all of the wells in the area and then going through and if you can go on to Exhibit Two --

Q When we look -- before we leave Exhibit Number One, Mr. Compton, is what you've shown on that display only the wells in the Diamond Mound Field?

A No. If you'll look on there you have some pool boundaries that are indicated by different hachures on the shading of the lines there, and if you'll look to the top of the exhibit map, in Sections 26 and 25 the wells in those sections are in the Buffalo Valley Penn Gas Pool.

Q Do the vertical limits for the Buffalo Valley Penn Gas Pool also include the Atoka?

A No, not as far as I know.

Q So the only time we have the Atoka included in the -- with the Morrow in these pools is when we get down into the Diamond Mound Atoka Morrow?

A That's correct.

Q And how have you identified the boundaries of that pool?

A With the -- it's got the shade hachuring, looks like about half tone line hachure.

Q And the code for that identification is in the lower left portion of the display?

A That's right. It's indicated there.

Q All right, let's compare that now to what you have presented on Exhibit Number Two.

A Okay. On -- getting back to the way the area is evaluated, I went through and correlated all the logs with the formation tops and then went through and picked the -- the individual pay units or reservoir units. I used a cutoff in here of 8 percent porosity. If it had less, less than that, it was not included as pay, and also calculated all of the logs in there and used bulk volume water cutoff of .050 as a -- as a maximum on bulk volume water.

And thereby that gives you the configuration that you see on the isopach of net effective pay.

Q Have you reached a geologic opinion with

regards to the development of the spacing unit by a well in the southwest quarter?

A Yes. If you'll look at the net effective pay map here, you'll see that you essentially, that you have two production fairways, one trending from the northwest to the southeast, from Sections 26 down toward Sections 5 and 4, in Township 16, 28, and there's also a trend that runs along the northern border of Township 16, 28, through Sections 6, 5 and 4.

The -- what appears to be is that -- what appears is that you've got a location in the southwest quarter there that is not being drained effectively by that well that's in the proration unit presently, which is the State ET No. 1 here.

Q Let's turn now, sir, to Exhibit Number Three which is your A-A' cross section.

A Okay.

Q Let's start in the upper righthand corner of the display and have you orient us as to what wells you've included in the cross section.

A Okay, if you'll look at the locator map that's located in the upper right corner -- righthand corner of the exhibit, Section A-A' begins with the Read & Stevens, Incorporated, Harris Fed No. 8, which is in the Buffalo Valley Penn Gas Pool.

It moves southward to the Mesa Petroleum Y State No. 2; then across to Section 36 to the Foran State ET No. 1; then back to the White State No. 1, Mesa Petroleum White State No. 1; through the proposed location in the southwest corner of Section 36, to the Foran Oil Company ET Gas Com No. 1, located in Section 36; and then southward to the Mesa Petroleum Company Derek Fed No. 2.

Q When we look at the third log starting from the left, the third one over, that's the ET State No. 1 Well?

A That's correct.

Q Find for us that portion of the log that indicates to you a potential for recompletion in the Atoka.

A Okay. If you'll look at that log and you've got two sands that occur below the top of the Atoka there, at a depth -- you've got a thin sand at a depth of about 8690 and you've also got a sand that occurs --

Q I think we've got some confusion on the display. The A and the A' I think are reversed, aren't they?

A No.

MR. STOGNER: Well, what well are we looking at, the State ET No. 1 or the -- oh, I'm sorry, we're looking at the ET Gas Com Well.

MR. YOUNG: You said from the

left

Q This one here.

A Yeah, that's the one that I'm looking at.

MR. STOGNER: Which one?

Q This one here.

MR. STOGNER: Oh, okay.

Q Now we're all looking at the same one.

A Okay.

Q The ET -- we've got some very similar well names.

We've got the Foran ET State Com No. 1, which is located in Section 36, but it's the well in the east half of the section.

A That's correct, and it's in a different proration unit.

Q The well we're concerned about is in the west half of the section and it is the -- not the Com Well, it's the State ET No. 1.

A Yeah, it is the State ET No. 1.

Q It is the ET No. 1 Well that I'm referring to from the west end.

A Correct.

Q Now, with regards to that well, show us where you find the potential on the log for Atoka produc-

tion.

A Okay, if you'll look at the -- there are some sands that are located at 8690 and about 8715, and also right below there at 87- about 25. You've got -- you've got a total net pay in there of approximately 10 foot and it calculates productive in there, and what we propose is a recompletion to that Atoka zone.

Q Look down in the portion of the log below the datum point on the Morrow marker and show us where the perforations are currently for that well.

A Okay, You've got perforations there that begin at a depth of 8912 to 22.

You've also got perforations in there from 31 to 44, 8931 to 44, and they also have perforations in there at a depth of 8967 to 6 -- or excuse me, 65 to 68.

Q When we look at the southwest quarter of Section 36 where we propose to drill the replacement well, that southwest quarter is offset by current oil producers on various sides?

A That's correct.

Q When we look to the west of the southwest quarter in Section 35, that's the Mesa Petroleum White State No. 2 Well?

A In the north half of the section that's right, it's the White State No. 2.

Q Okay, the White State No. 1, then, is the fourth well over on the cross section starting from the left.

A That's correct.

Q And that is the western offset to the southwest quarter.

A That's correct.

Q Okay. Where is this well completed?

A It's presently completed in the Morrow from approximately 8910 to the lowest perforation is 8989 in there, for the interval.

Q From a geologic perspective, Mr. Compton, is this Mesa Petroleum White State No. 1 Well in a position where it can expose the southwest quarter of Section 36 to drainage?

A Yes.

Q Are there any other wells that offset the southwest quarter that similarly expose the southwest quarter to drainage, geologically?

A Potentially you have a drainage problem from maybe the Depco Fed No. 2, located in Section 4, 16, 28, and possibly the Mesa Petroleum Derek Fed No. 2, which is located in the northeast quarter of Section 5, 16, 28.

Q Then finally when we look at the proposed location for the replacement well, where is that

going to fall in the cross section?

A It will be located at a standard location in the southwest quarter of Section 36.

Q And you'll be looking for that same Morrow production that is being produced out of the State 1 Well for Mesa, the White State No. 1 Well?

A Yes.

Q As well as the Derek Federal No. 2 Well?

A Yes.

Q Okay. Let's go on now to Exhibit Number Four. Would you identify this exhibit for us?

A Okay. Exhibit Number Four is an estimated ultimate recovery map. The values that you see on the map, which are ultimate recoveries in BCF, were calculated by Mr. Joe Young, engineer with (unclear) and the contouring of those values was done by me.

Q Describe what conclusions you reached after taking Mr. Young's estimated ultimate recovery values and contouring them.

A Okay. You really, you should look at two exhibits when you look at these two maps. One is Exhibit Two, which is the net effective pay map, and if you'll look there you'll see that the production fairway that runs from northwest to southeast is coincidental with the major trend of your EUR map or your highest productive

capability runs along this same trend.

The east/west production trend that you see running east/west to the south there, all it does is skew the nose of that -- of that measured trend just a little bit out to the east and the west.

And what we feel here is that since the State ET No. 1 has not drained the reserves to the south, that we are losing advantage to the offset operators there in the southwest quarter.

Q Will the drilling of the replacement well and the simultaneous dedication of the west half to those two wells afford to Foran Oil Company the opportunity not only to prevent waste but to protect their correlative rights?

A That's correct.

MR. KELLAHIN: That concludes my examination of Mr. Compton.

We'd move the introduction of Exhibits One through Four.

MR. STOGNER: Exhibits One through Four will be admitted into evidence.

CROSS EXAMINATION

BY MR. STOGNER:

Q Mr. Compton, do you know why this pool

was formed in both the Atoka and the Morrow formations?

A No. I have gone back through the records and my recollection is that they were combined in 1982 by Order 6994.

I've also read the case which I believe was 7587, but I couldn't tell from the records why the pool was combined.

Q Okay, and looking at your Exhibits -- well, let's look at Exhibit Number Two and Four, might as well look at both of them at the same time, now you show on the isopach net effective pay on Exhibit Number Two and Exhibit Number Four the estimated ultimate recovery. Now this is both the Atoka and the Morrow combined or is this essentially just based on the Morrow or --

A Well, in the -- in the area that you see here and the wells that are indicated on the map, you have only Atoka -- I'm sorry, the Morrow production at this time where there are no wells that are completed in the Atoka as a source of supply.

Q So Exhibit Number Two is just based on the perforations and the production intervals in the wells that are already there, is that correct?

A That's correct.

Q And how about the estimated well recoveries, is that also just based on the --

A They are based on the perforations that -- that you -- just in the Morrow interval.

Q As far as the pool throughout, have you ran across any or do you know of any wells that are producing from the Atoka interval?

A To my recollection there is one well, I can't give you the section, but there is one well that is down to the southwest of this area and I don't think that the pool -- I'm sorry, let me just start over here.

There -- there is one well I know to the north of this area that's completed in the Atoka that is not in this pool. I don't think it's in the Buffalo Valley Penn, either.

There's also one well, I think, that might be completed in the Atoka as a source of supply down to the southwest, but it doesn't involve these (unclear) either.

Q And geographic -- I mean geologically, these two zones, or your proposed two zones in the Atoka and the Morrow producing zones, are not connected in any way.

A That's correct. There is no vertical communication, to my knowledge, and in fact, my history of my experience in the area here, that essentially there is no -- there is no Morrow produced -- no Atoka producers in

this area at present.

MR. STOGNER: I have no other questions of Mr. Compton at this time.

He may be excused.

JOE YOUNG,

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. KELLAHIN:

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

A My name is Joe Young. I'm employed as the Manager of Engineering and Acquisitions for Foran Oil Company.

Q Mr. Young, as an engineer with your company have you previously testified before the Division?

A Yes, sir, I have.

Q And pursuant to your employment have you made a study of the engineering aspects of this particular application?

A Yes, sir, I have.

MR. KELLAHIN: We tender Mr. Young as an expert petroleum engineer.

MR. STOGNER: Mr. Young is so qualified.

Q Mr. Young, let me have you take a moment and confirm for us on Exhibit Number Four that the estimated ultimate recoveries utilized by Mr. Compton in contouring those numbers were numbers that you generated?

A Yes, sir, they were. I performed a study of the area looking at the Morrow zone and looked at the rate performance of the wells, the pressure performance, the pressure history, and rate history from the wells. The evidence we saw in the wellbore of pay, the thicknesses of porosity, the volumetric calculations, from collected analysis of that data I arrived at the estimated ultimate recoveries, which is what is exhibited here in Number Four.

Q Would you summarize for the Examiner what you propose to do with this application? What are you trying to accomplish, Mr. Young?

A What we'd like to be able to do is based on our studies here, engineering and geological studies, we feel that the southwest quarter of Section 36 is not draining; the correlative rights are not being protected by the existing well, the State ET No. 1, and that there is additional gas to be recovered that will not be recovered by the existing wells.

So what we propose to do is to drill a replacement well in the southwest quarter of Section 36 to be completed in the Morrow.

If that well is successful what we would then do would be recomplete the existing well, the State ET No. 1, into the Atoka formation, once we've determined that the Morrow in the southwest quarter is productive.

Q You mentioned awhile ago that you were seeking to protect correlative rights of Foran Oil Company. In making your study, Mr. Young, do you see that your southwest quarter is being drained by other wells that are producing in the Morrow formation?

A Yes, sir, it appears that it is being drained by particularly wells in the south and westerly directions.

Q Let's take a specific example that causes you to reach that conclusion, have you pick out that well and compare it to the existing well in the west half of 36.

A Okay. A good example would be located down in the southeast of Section 35. It's the White State No. 1. The estimate ultimate recovery from that well is 3.8 BCF and the wellbore thickness, the pay on that well, is about 6 feet and it even produced 4 BCF from the 6-foot interval. If the interval is continuous the thickness of it

has to drain a pretty large area to get 4 BCF out of it. That well has performed, it has been a very good performer. The current rate is over a million a day it's capable of making in the existing well, and the State ET No. 1 in Section 36 is now currently capable of producing about 300 MCF a day on its way to under 1.6 BCF of ultimate recovery.

Q In making that engineering analysis, Mr. Young, would you describe for us what calculations or studies that you specifically conducted to satisfy yourself that the Mesa Well in the southeast quarter of 35 was draining your acreage?

A The procedure used in that analysis was to analyze the history we had from the existing wells, as I discussed before, and arrive at a figure for the estimated ultimate recovery. Then one that figure was obtained, to back calculate and see what kind of drainage area would be required given the wellbore properties in order to recover that much gas.

Q And in making that calculation, then, you were able to conclude that the drainage effect of the Mesa well extended beyond its spacing unit into the Foran acreage in the west half of Section 36.

A Yes, sir.

Q Have you made a similar study of any of the other offsetting producing wells in the Morrow to see

what impact they were having on the west half of 36?

A Yes, sir, as I stated earlier, after looking at the ultimate recoveries on all the wells here in the vicinity, all the wells surrounding Section 36, we went back and looked at what kind of drainage area could be expected given those ultimate recoveries and the thicknesses and the wellbore porosity that we saw.

It does not appear to me that the southwest quarter of Section 36 is being drained by any (unclear) by existing wells, the State ET No. 1. In fact, probably a best case would only have it draining the northwest quarter.

The well in the southwest of 36 is draining -- it's in the eastern half proration unit and its drainage area extends somewhat into the western half.

Q Let me direct your attention now, Mr. Young, to Exhibit Number Five and ask you if you have prepared that exhibit?

A Yes, sir. Exhibit Number Five is a production map of the area with some figures on the individual wells and it is a map that I prepared.

Q Describe for us how to understand and read the display, Exhibit Number Five. What information is on that display?

A Okay. As an example, we can look at the

subject well, the State ET No. 1 in Section 36. There are four numbers that appear below it.

The first number would be the date of production, date of first production. In this case it would be 7 of '78.

The second number is the ultimate recovery, which is also the number that appears on Exhibit Number Four.

The next figure is the cumulative production through May of '88, and the last one is the current daily rate capability for that well, which in this case is 300 MCF.

Q Have you made engineering calculations and studies sufficient enough to satisfy yourself that there are remaining reserves in the southwest quarter of Section 36 to justify the drilling and completion of the replacement well?

A Yes, sir, I believe there are.

Q In the absence of accomplishing the drilling and completion of the well in the southwest quarter, what is going to happen to the remaining reserves in the southwest quarter?

A A portion of them, not all, but a portion of them, I expect to be drained by the White State No. 1 in Section 35.

Q Will approval of your proposed method by which to simultaneously dedicate the west half of 36 to two wells, to drill a replacement well and then to recomplete the existing well into the Atoka, do you have an opinion as to whether or not that would prevent waste?

A Yes, sir, I believe that the drilling of the additional well in the southwest quarter of Section 36 would maximize the recovery of gas from the Morrow in the western half of Section 36. The proposed location should recover additional gas and should also recover the bulk of the gas that would have been recovered by the existing well, the State ET No. 1.

Q And can that application by Foran Oil Company be approved and not violate the correlative rights of any of the offsetting interest owners?

A Yes, sir, I believe so.

MR. KELLAHIN: That concludes our examination of Mr. Young.

We would move the introduction of Exhibit Number Five.

MR. STOGNER: Exhibit Number Five will be admitted into evidence.

You have an Exhibit Number Six here, Mr. Kellahin.

MR. KELLAHIN: Yes, sir, that,

I'm sorry, is our certificate of mailing of notice to the offset operators.

MR. STOGNER: And those are being Mesa --

MR. KELLAHIN: Mesa, Depco, and Read & Stevens, Mr. Examiner. We would also ask that that certificate be admitted into evidence.

MR. STOGNER: Now where's Depco's properties?

I see a Toles Oil Company.

So that is now Depco?

A Yes, sir. Also -- I'm sorry, would you like for me to respond to that question?

Q Yes, sir.

A In -- down on the bottom half of the map in Section 4, the eastern half, that's -- those are Depco properties. The Coquina State No. 1 in Section 4 of 16, 28.

MR. STOGNER: And this was sent out when, Mr. Kellahin?

MR. KELLAHIN: On the 6th of September we sent a copy of the original application.

MR. STOGNER: Do you wish to admit Exhibit Number Six into evidence?

MR. KELLAHIN: If you please.

MR. STOGNER: Exhibits Five and Six both will be admitted into evidence.

CROSS EXAMINATION

BY MR. STOGNER:

Q Mr. Young, in looking at this, let's talk about the existing well now, the State ET No. 1, when did Foran Oil take that well over from Amoco?

A In August of 1988.

Q Has that always been a west half dedication?

A To my knowledge, yes, sir.

Q Would that location not be a nonstandard location?

A It's my understanding that the proposed location being 1980 --

Q No, I'm asking about the State ET Well No. 1, the existing well.

A I'm sorry, I don't really know.

It is noticeable when we look at the map that there are several wells out there, several wells in the field, in the Diamond Mound Field and also in the Buffalo Valley Field that are not a typical 1980/660.

Q It looks to be nonstandard. I'll take whatever order was issued in that particular well under ad-

ministrative notice.

So let me make sure I get this right. The events that Foran is going to take will be to plug off the Morrow completion in the ET Well No. 1?

A No, sir. The sequence of events will be to -- if we were granted a simultaneous dedication, to drill the well in the southwest quarter.

Once we determine that well is successful and it's capable of producing the reserves we believe it will be capable of producing from the Morrow, at that time we would go into the existing well, the State ET No. 1 and attempt a recompletion into the Atoka.

Q And how about if that well does not test in the Morrow to be that good?

A If the well is not a success in the Morrow, then we would continue to just produce it. If it was a dry hole in the Morrow we would just continue to produce the State ET No. 1.

Q And would you plug the proposed location off altogether or are you going to test the Atoka?

A It depends on what we see when we drill the well. If there appears to be Atoka pay in that well, then, yes, sir, I feel the economics would justify it, then we would attempt an Atoka completion.

Q Okay. And your State ET Well No. 1

would then be recompleted; plugged and abandoned in the Morrow and recompleted in the Atoka, is that correct?

A Temporarily abandoned, yes, sir.

MR. KELLAHIN; Mr. Stogner, we would not propose to produce concurrently both wells in the same formation. The possibility exists that we might have the Morrow in both wells open at the same time but we would not produce both wells in the Morrow concurrently.

Nor would that possibility occur for the Atoka unless we come back for further hearings.

MR. STOGNER: Thank you, Mr. Kellahin.

I have no further questions of Mr. Young.

Is there anything further of this witness?

MR. KELLAHIN: One question I forgot to ask him, if I might.

REDIRECT EXAMINATION

BY MR. KELLAHIN:

Q Mr. Young, have you been in contact with the other offset operators with regards to your application?

A Yes, sir, I have personally contacted

the three offset operators and discussed our proposed sequence of events out here with those operators, and the operators that I talked to, which is all of them, the same ones that were notified in Exhibit Number Six, had no opposition to what we were planning to do.

MR. KELLAHIN: Nothing further.

MR. STOGNER: Thank you. Is there anything further in this case?

You may be excused and Case Number 9491 will be taken under advisement.

(Hearing concluded.)

C E R T I F I C A T E

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 9491, heard by me on 28 Sept. 1988.

Michael E. Stogner, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
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SANTA FE, NEW MEXICO

26 October 1988

EXAMINER HEARING

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Application of Foran Oil Company for simultaneous dedication, Chaves County, New Mexico. CASE 9491

BEFORE: Michael E. Stogner, Examiner

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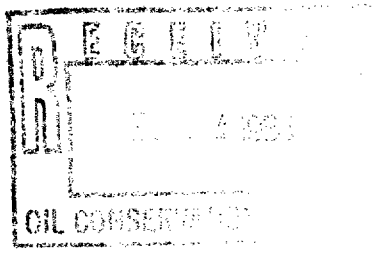
A P P E A R A N C E S

For the Division: Robert G. Stovall
Legal Counsel to the Division
State Land Office Building
Santa Fe, New Mexico

For the Applicant:



MR. STOGNER: Call next Case 9491.

MR. STOVALL: Application of Foran Oil Company for a simultaneous dedication, Chaves County, New Mexico.

MR. STOGNER: This case was originally heard on September 28th, 1988.

Due to an advertisement error in the Roswell paper it was readvertised to today's hearing.

I'll call for any appearances. There being none, this case will be taken under advisement.

(Hearing concluded.)

C E R T I F I C A T E

I, SALLY W. BOYD, C. S. R. DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 9491, heard by me on 26 October 1988.

Michael E. Stogner, Examiner
Oil Conservation Division