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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
CASE 9907, CASE 9911, CASE 9889,
CASE 9439, CASE 9912, CASE 9918,
CASE 9919

EXAMINER HEARING
CONTINUED AND DISMISSED CASES

TRANSCRIPT OF PROCEEDINGS

BEFORE: MICHAEL E. STOGNER, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

April 18, 1990

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1 WHEREUPON, the following proceedings were had
2 at 8:20 a.m.:

3 EXAMINER STOGNER: This hearing will come to
4 order for Docket Number 11-90. I'm Michael E. Stogner,
5 appointed Hearing Officer for today, April 18, 1990.

6 I'll call first case, Number 9907, which is
7 the Application of Enron Oil and Gas Company for
8 compulsory pooling, Eddy County, New Mexico.

9 At the Applicant's request, this case will be
10 continued and will need to be advertised for the
11 hearing scheduled -- readvertised for the hearing
12 scheduled for May 2nd, 1990.

13 * * *

14 WHEREUPON, the following proceedings were had
15 at 10:24 a.m.:

16 EXAMINER STOGNER: Call Case Number 9911,
17 which is the Application of Union Oil Company of
18 California for a highly deviated directional drilling
19 pilot project and an unorthodox coal gas well location,
20 Rio Arriba County.

21 At the Applicant's request, this case will be
22 continued to the Examiner's Hearing scheduled for May
23 2nd, 1990.

24 * * *

25 EXAMINER STOGNER: Call the next case, Number

1 9889, which is the Application of Meridian Oil,
2 Incorporated, for temporary well testing allowable for
3 certain wells in the Parkway-Delaware Pool, Eddy
4 County, New Mexico.

5 At the Applicant's request, this case will be
6 dismissed.

7 * * *

8 EXAMINER STOGNER: I'll call Case Number
9 9439, which is in the matter of said case being
10 reopened pursuant to the provisions of Division Order
11 Number R-8770, which order promulgated temporary
12 special rules and regulations including 80-acre spacing
13 for the Vada-Devonian Pool in Lea County, New Mexico.

14 I'm going to call for appearances at this
15 time.

16 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin
17 of the Santa Fe law firm of Kellahin, Kellahin and
18 Aubrey. I'm appearing today on behalf of Union Pacific
19 Resources Company, which was the original Applicant in
20 the case that resulted in the order that established
21 the special rules for the pool.

22 In addition, Mr. Examiner, I'm appearing
23 today on behalf of Western Reserves Oil Company, Inc.

24 On behalf of those companies, I would request
25 that this case be continued to the next regular

1 examiner docket.

2 EXAMINER STOGNER: Thank you, Mr. Kellahin.

3 In that case, said case number 9439 will be
4 continued to the Examiner's Hearing scheduled for May
5 2nd, 1990.

6 * * *

7 EXAMINER STOGNER: I'll call Case Number
8 9912, which is the Application of Conoco, Incorporated,
9 for an unorthodox oil well location in Lea County, New
10 Mexico.

11 The Applicant has requested that this case be
12 continued to Examiner's Hearing scheduled for May 2nd,
13 1990.

14 * * *

15 WHEREUPON, the following proceedings were had
16 at 2:41 p.m.:

17 EXAMINER STOGNER: I'll at this time call
18 Case Number 9918, which is the Application of Mesa
19 Operating Limited Partnership for compulsory pooling,
20 San Juan County, New Mexico.

21 At the Applicant's request, this case will be
22 continued to the Examiner's hearing scheduled for May
23 2nd, 1990.

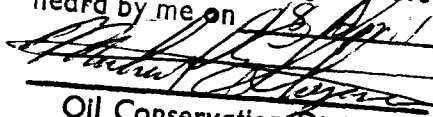
24 * * *

25 EXAMINER STOGNER: Call Case Number 9919,

1 which is the Application of Mesa Operating Limited
2 Partnership for another compulsory pooling, San Juan
3 County, New Mexico.

4 The Applicant has also requested that this
5 case be continued to the May 2nd, 1990, hearing.

6 * * *

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14 I do hereby certify that the foregoing is
15 a complete record of the proceedings in
16 the Examiner hearing of Case No. 4412,
17 heard by me on 18 April 1990.
18 
19 Examiner
20 Oil Conservation Division
21
22
23
24
25


1 CERTIFICATE OF REPORTER

2
3 STATE OF NEW MEXICO)
4) ss.
COUNTY OF SANTA FE)

5
6 I, Steven T. Brenner, Certified Shorthand
7 Reporter and Notary Public, HEREBY CERTIFY that the
8 foregoing transcript of proceedings before the Oil
9 Conservation Division was reported by me; that I
10 transcribed my notes; and that the foregoing is a true
11 and accurate record of the proceedings.

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

16 WITNESS MY HAND AND SEAL April 28, 1990.

17
18 
19 STEVEN T. BRENNER
CSR No. 106

20 My commission expires: October 14, 1990
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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

CASE 9912

EXAMINER HEARING

IN THE MATTER OF:

Application of Conoco, Inc., for an Unorthodox Oil
Well Location, Lea County, New Mexico

TRANSCRIPT OF PROCEEDINGS

BEFORE: DAVID R. CATANACH, EXAMINER

STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

May 2, 1990

ORIGINAL

A P P E A R A N C E S

FOR THE APPLICANT:

KELLAHIN, KELLAHIN & AUBREY

Attorneys at Law

By: W. THOMAS KELLAHIN

117 N. Guadalupe

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Santa Fe, New Mexico 87504-2265

* * *

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* * *

E X H I B I T S

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* * *

1 WHEREUPON, the following proceedings were had
2 at 9:35 a.m.:

3 EXAMINER CATANACH: Okay, at this time we'll
4 call the hearing back to order and call Case 9912, the
5 Application of Conoco, Inc., for an unorthodox oil well
6 location, Lea County, New Mexico.

7 Are there appearances in this case?

8 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin
9 of the Santa Fe law firm of Kellahin, Kellahin and
10 Aubrey, appearing on behalf of the Applicant, Conoco,
11 Inc., and I have two witnesses to be sworn.

12 EXAMINER CATANACH: Any other appearances?

13 Will the two witnesses please stand to be
14 sworn in?

15 (Thereupon, the witnesses were sworn.)

16 JERRY HOOVER,
17 the witness herein, after having been first duly sworn
18 upon his oath, was examined and testified as follows:

19 EXAMINATION

20 BY MR. KELLAHIN:

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

23 A. I'm Jerry Hoover, I'm a senior reservoir
24 engineer with Conoco.

25 Q. Mr. Hoover, on prior occasions have you

1 testified and qualified as an expert reservoir engineer
2 before this Division?

3 A. Yes, I have.

4 Q. Pursuant to your employment with your
5 company, have you made a study of the facts surrounding
6 this Application?

7 A. Yes, I have.

8 MR. KELLAHIN: Mr. Examiner, we tender Mr.
9 Hoover as an expert petroleum engineer.

10 EXAMINER CATANACH: He is so qualified.

11 Q. (By Mr. Kellahin) Mr. Hoover, let me have
12 you take what is marked as Exhibit Number 1, sir, and
13 identify for us, first of all, the approximate location
14 of the well that's the subject of this Application.

15 A. This proposed well is located in Section 35
16 of Township 16 South, Range 37 East. It is located in
17 Unit E of that section.

18 Q. How is it identified on Exhibit Number 1?

19 A. It is indicated by the red arrow and the open
20 circle.

21 Q. What is your company proposing to accomplish
22 with this Application?

23 A. Conoco seeks the authority to drill its West
24 Knowles Well Number 12 at an unorthodox location in the
25 undesignated Shipp Strawn Pool.

1 Q. This is to be an oil well attempt in that
2 pool?

3 A. That's correct.

4 Q. Describe for us the other pool in the area
5 that's shown on Exhibit Number 1.

6 A. The Casey Strawn Pool is also shown here.
7 You'll notice the proposed location for this well is
8 outside and between the established boundaries for
9 these two pools.

10 Q. Conoco has recently drilled another well in
11 this vicinity that I believe is now dedicated to the
12 Shipp Strawn Pool?

13 A. That's correct, 2600 feet to the southwest.

14 Q. In the south half of the southeast quarter of
15 the section immediately to the west of this location?

16 A. That's correct.

17 Q. And prior to the drilling of that well, the
18 Shipp Strawn Pool had not been extended into that
19 section?

20 A. No, it had not.

21 Q. Why was that well put in the Shipp Strawn
22 Pool as opposed to the Casey Strawn Pool, if you know?

23 A. No, I don't. That's just -- That's the pool
24 the Commission decided to put it into.

25 Q. Is there any difference between the special

1 rules for each of those pools?

2 A. The special pool rules are identical and
3 there's no dominant geological reason for going to one
4 pool over the other.

5 Q. Both pools are dealing with the same vertical
6 formation intervals?

7 A. That's correct.

8 Q. All right. What is your recommendation, Mr.
9 Hoover, for which pool the current well ought to be
10 placed in?

11 A. We would recommend that the Well Number 12
12 also be placed in the Shipp Strawn Pool, simply for
13 convenience and lack of confusion. It would be simpler
14 for these two wells to be in the same pool, both being
15 West Knowles Wells.

16 Q. Why is that, sir?

17 A. Well, if you're looking for statistics or
18 data or information in the pool for one of the wells,
19 you would have both of the wells with a similar name.
20 It just would be simpler.

21 Q. Do you have similar interest owners for each
22 of the ownerships for these spacing units?

23 A. Yes, they're common.

24 Q. When we look at the special rules for the --
25 both the Casey Strawn and the Shipp Strawn, what do

1 they require in terms of acreage dedication and well
2 locations?

3 A. They require an 80-acre proration unit, and
4 it can either be a standup or a laydown unit.

5 Q. What's your recommendation to the Examiner
6 for the orientation of the spacing unit?

7 A. We're recommending a laydown unit in the
8 south half of that northwest quarter.

9 Q. And what is the basis for that
10 recommendation?

11 A. That would be a geologic basis which will be
12 discussed and become apparent when the next witness
13 discusses the geological interpretation.

14 Q. Okay. When we look at the choices of a
15 standard location within the south half of the
16 northwest quarter of the section, are there any
17 alternative choices that satisfy the topographic
18 constraints that would apply to the spacing unit?

19 A. Well, of course the rules allow for a radius
20 of standard area of 150 feet in either quarter quarter,
21 the 80-acre. So technically there is another standard
22 location. That too would be a geological
23 determination.

24 Q. Let's turn to Exhibit Number 2, Mr. Hoover.
25 Would you identify and describe that for us?

1 A. Exhibit 2 is a well location acreage
2 dedication plat for the proposed well.

3 Q. What does that show?

4 A. It shows outlined in red the proposed
5 proration unit, the laydown unit, the 80 acres.

6 It shows also, indicated by the small open
7 circle, the proposed location, which would be 2310 feet
8 from the north line, 660 feet from the west line.

9 Q. Are there any surface constraints or
10 topographical problems with regards to locating the
11 well in the spacing unit?

12 A. You will notice on this exhibit that there is
13 already an existing well at the center of that quarter
14 quarter, Well Number 9, indicated by the solid dot.

15 There also is a battery pad and -- extending
16 to the south of that location. And also there is a
17 road crossing south of that well, which necessitated
18 moving away from the -- at least the center center
19 location.

20 For geological reasons that will become
21 apparent with the remaining exhibits, we did not want
22 to move north with this location.

23 Q. Describe the magnitude that this well is
24 unorthodox from the closest standard location.

25 A. This location is 184 feet south of that 150-

1 foot radius around the center of the quarter quarter.

2 Q. Okay. Turn now, sir, to Exhibit Number 3.
3 Would you identify and describe that display?

4 A. Exhibit 3 is an area map showing the
5 offsetting tracts and operators to our proposed well.
6 You'll note that Conoco operates all of the acreage
7 surrounding this location except for the 160-acre tract
8 operated by Amerind to the southeast.

9 Q. The operators or working-interest owners,
10 other than Conoco, towards whom this well is moving in
11 an unorthodox direction are limited to Amerind?

12 A. To Amerind, that's correct.

13 Q. Have you notified Amerind of your Application
14 and determined whether or not they have any objection
15 to your request?

16 A. Yes, we have. If you'll refer to Exhibit 4,
17 this is a copy of the certified mail receipt showing
18 that Amerind was sent and received a copy of our
19 Application. Verbal communication with them has
20 brought no objection from them.

21 Q. Can you determine for us, Mr. Hoover, when
22 you first sent this -- or mailed the Application to
23 Amerind?

24 It shows a delivery date on the return
25 receipt card. I was curious as to what was the

1 original date of your Application. Do you recall?

2 A. I don't have that with me right at this
3 point. But it --

4 SECOND WITNESS: It says March 28th.

5 THE WITNESS: That's the receipt date.

6 MR. KELLAHIN: We'll provide that to you, Mr.
7 Examiner. The witness doesn't have that readily
8 available to him.

9 Q. (By Mr. Kellahin) All right, does that
10 conclude your presentation, Mr. Hoover?

11 A. Yes, I believe that will conclude it.

12 MR. KELLAHIN: All right, Mr. Examiner, we
13 move the introduction of Conoco's Exhibits 1 through 4
14 at this time.

15 EXAMINER CATANACH: Exhibits 1 through 4 will
16 be admitted as evidence.

17 EXAMINATION

18 BY EXAMINER CATANACH:

19 Q. Mr. Hoover, within that particular quarter
20 quarter section that the well is going to be located,
21 there are some topographical obstructions that caused
22 you to move south, or are they mainly geologic?

23 A. The primary and the most critical reason is
24 geologic.

25 I simply stated there are some topographical

1 reasons, if we go south, for moving some distance from
2 the center. But the overriding reason will be
3 geological.

4 Q. Within Amerind's acreage to the southeast of
5 your proposed location, I show two dry holes.

6 A. That's correct.

7 Q. Do you know if those were drilled to and
8 tested in the Strawn in this area?

9 A. Yes, they were. They were dry holes in the
10 Strawn.

11 Q. They were dry holes.

12 A. You'll see how these fit on the structure
13 with the next exhibits.

14 EXAMINER CATANACH: Okay, no further
15 questions.

16 MR. KELLAHIN: Mr. Examiner, during your
17 discussions with Mr. Hoover we have located, and I have
18 marked now as Conoco Exhibit Number 7, a copy of the
19 original Application, dated March 23rd, and this was
20 the Application a copy of which was sent to Amerind on
21 that date, and we would move its introduction at this
22 time.

23 EXAMINER CATANACH: Exhibit Number 7 will be
24 admitted as evidence.

25 MR. KELLAHIN: I'd like to call our next

1 witness at this time, Mr. Hans Sheline, S-h-e-l-i-n-e,
2 I believe.

3 HANS SHELINE,
4 the witness herein, after having been first duly sworn
5 upon his oath, was examined and testified as follows:

6 EXAMINATION

7 BY MR. KELLAHIN:

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

10 A. Hans Sheline. I'm a senior geophysicist with
11 Conoco in Hobbs, New Mexico.

12 Q. Mr. Sheline, on prior occasions have you
13 testified as a geophysicist before this Division?

14 A. Yes, I have.

15 Q. Pursuant to your employment by your company,
16 have you made a geologic study of this particular well
17 location?

18 A. Yes.

19 Q. And based upon that study do you have
20 recommendations to your company as well as to the
21 Division about the optimum location in which to place
22 this well for the spacing unit?

23 A. Yes, I do.

24 MR. KELLAHIN: We tender Mr. Sheline as an
25 expert geophycist.

1 EXAMINER CATANACH: He is so qualified.

2 Q. (By Mr. Kellahin) Sir, let me have you turn
3 to what is marked as Exhibit Number 5. Could you
4 identify this for us?

5 A. This is a structure map on the top of the
6 Strawn Formation.

7 Q. How was it prepared?

8 A. This was prepared using seismic data and
9 offset well data.

10 Q. Is this a document that you prepared
11 yourself?

12 A. Yes.

13 Q. Describe for us the method that you went
14 through in order to satisfy yourself that you had an
15 adequate structure map prepared for the Shipp Strawn
16 upon which then to determine a well location.

17 A. Okay. Before I get into that, let me clear
18 the Exhibit Number 5 so that --

19 First of all, this is the structure map on
20 the Strawn.

21 The hexagons on this map show the producing
22 Strawn locations, and the dryhole symbols are shown in
23 color.

24 What was used, as I mentioned earlier was the
25 -- Obviously the well data and seismic data were

1 synthesized to produce, number one, a structure map on
2 the top of the Strawn, and then seismic data also gives
3 information as to the thickness of the Strawn interval.

4 And you can see on this map the proposed
5 location is shown by the red arrow and the open circle,
6 and it corresponds to the center of a structural nose.
7 And as you can see, to the northwest you have a very
8 similar structural nose which has produced very well
9 from the Strawn Formation.

10 You can see there's a correspondence between
11 the thick Strawn and the good production, and that
12 thickness is demonstrated by these structural noses
13 that generally tend to the east northeast.

14 Q. In reviewing the seismic information that was
15 made available to you, how did you satisfy yourself
16 that your interpretation of that information was
17 confirmed by the log information and other geologic
18 data derived from the wells shown on the display?

19 A. Well, as you can see, again looking to the
20 northwest, you see a correspondence between the center
21 of these -- this nose -- and the best producers.

22 Likewise, if you were off on the flank of
23 these structural noses, you will notice that you have
24 very little porosity and that it's a noncommercial or a
25 dry hole.

1 Therefore it's critical to best position your
2 well in order to hit as best you can the center of
3 these reservoirs. And if you are not able to do that,
4 you dramatically increase your risk of a noncommercial
5 well.

6 Q. When we look specifically at the spacing unit
7 proposed, which is the south half of the northwest
8 quarter of 35, within that spacing unit there are
9 certain standard well locations, are there not?

10 A. Correct.

11 Q. Do any of those standard locations give you
12 the opportunity that you will obtain for a well in the
13 Shipp Strawn if you use the unorthodox location?

14 A. No, as you can see, either going downdip to
15 the due east -- You're going significantly downdip and
16 off the center of that nose.

17 And likewise, if you were to go to the
18 standard location either in that quarter quarter or
19 going up to the north, you can see to the north there's
20 a dry hole already in that northwest of the northwest.

21 And likewise, if you were to go to standard,
22 you're going again on the flank of the structure.

23 So it is critical to, as I mentioned earlier,
24 to be in the center of that structure as much as
25 possible.

1 Q. Can you give us an example using this display
2 of how critical it is to you to get the highest point
3 of the structure of these --

4 A. Yes, in fact there's an excellent example in
5 the southeast of Section 34.

6 There is the West Knowles Number 1 and the
7 Number 11, which are located both in unit letter P.
8 The Number 1 well encountered essentially no porosity.
9 The Number 11 well encountered over 90 feet of
10 porosity.

11 So you can see in just less than 1000 feet
12 distance, you can have a dramatic impact in the
13 porosity encountered.

14 Q. The Number 1 Well in the southeast of 34 that
15 shows a minus 7577?

16 A. That's correct.

17 Q. And the one that just touched the inside of
18 the high point of the structure to the east, that was
19 at a minus 7531?

20 A. That's correct.

21 So in addition to the dramatic increase in
22 the porosity in less than 1000 feet horizontal -- in
23 fact in this case I believe it was closer to 600 feet
24 -- you can not only get the 90 feet of additional
25 porosity, but you're going updip significantly in what

1 is normally a downdip direction, namely to the east.

2 Q. I direct your attention, sir, to Exhibit
3 Number 6. Would you identify and describe that
4 display?

5 A. Exhibit Number 6 is also showing the Strawn
6 structure, and it's also showing the producing in the
7 dry holes in the Strawn, but as well it's locating the
8 seismic coverage which Conoco has access to in this
9 area. And the point of this being that we have at
10 least ten lines which would impact the -- ten seismic
11 lines which would impact our interpretation of the
12 structure in this area.

13 And therefore, with this fairly large amount
14 of control, we have enough control to have a degree of
15 confidence as to where to locate this well.

16 Q. Exhibit Number 6 also represents your work
17 product?

18 A. That's correct.

19 Q. And these form the basis upon which you have
20 reached your conclusion about the optimum location for
21 this well?

22 A. That's correct.

23 Q. And that conclusion is, the unorthodox
24 location is necessary?

25 A. Yes, it's essential to reduce the risk in

1 this well.

2 MR. KELLAHIN: That concludes my examination.
3 We move the introduction of Exhibits 5 and 6.

4 EXAMINER CATANACH: Exhibits 5 and 6 will be
5 admitted as evidence.

6 EXAMINATION

7 BY EXAMINER CATANACH:

8 Q. Mr. Sheline, with the aid of seismic
9 information, are you confident that you're able to map
10 these structures as close as you've shown them here?

11 A. What we can say is that the seismic data
12 gives us a fairly accurate picture of the structure
13 within, say, a hundred feet -- at least a hundred feet,
14 perhaps, as some people would say, better than a
15 hundred feet.

16 We can also say that we can look at the
17 overall thickness of the Strawn, and that's also
18 determined to be important in terms of the
19 producibility of the formation.

20 Q. And I believe you testified that it's
21 imperative that you locate the well as close to the
22 center of the structure as you can, and that's what
23 you've attempted to do with this location?

24 A. That's correct. We felt like that -- Of
25 course, normally in a 40-acre unit this would be a

1 standard location. But with the 80-acre special pool
2 rules, it requires the 150 as -- from the center center
3 -- as the standard location. So whereas this would be
4 a normal location, in this case it's an unorthodox
5 location.

6 I should point out one additional factor, and
7 that is that the normal tendency in drilling a well in
8 this area is to deviate to the north. And given that
9 normal tendency, it's additionally important in this
10 well that we go as far south as possible.

11 Q. Do you have any idea how much these wells
12 drift?

13 A. Yes, they can drift. In the case of the
14 Number 1 where we had a dipmeter, we verified at least
15 500 feet of drift to the north.

16 Q. Now, that was -- Did you actually run a
17 directional survey on that well?

18 A. On the Number 1, there was not a directional
19 survey run, but there was a dipmeter log, which can
20 give you that information.

21 On the Number 11, there were several
22 directional surveys run, and it also tended to drift
23 significantly to the north. In the case of the Number
24 11, it was not allowed to continue to drift. It starts
25 drifting at about the Drinkard depth, and then it kicks

1 off fairly rapidly.

2 After, I believe it was only 200 feet of
3 drift, it was corrected back to within a 200-foot
4 radius of the surface location.

5 Q. Does Conoco operate the east half of Section
6 34?

7 A. Yes.

8 Q. Those are all Conoco wells?

9 A. That's correct.

10 Q. Did you see a big difference in the porosity
11 between -- I'm looking at the wells in the northeast
12 quarter --

13 A. Uh-huh.

14 Q. -- between the 4 and the 8?

15 A. Yes, there's quite a bit of difference in
16 there. It turns out in that particular case, as I
17 recall, the 8 actually had slightly higher porosity in
18 terms of net footage, but the 4 was located in a better
19 structural position and therefore produced -- I believe
20 the last number I had on it was 762,000 barrels of oil
21 from the Number 4. That's the best producer in this
22 area.

23 Q. As compared with the Number 8, which --

24 A. I believe that was in the 300,000 to 400,000
25 range.

1 Q. Did Conoco use seismic data in the east half
2 of 34 to drill their wells in that area?

3 A. No, Conoco did not drill those wells. Those
4 were originally drilled by Mesa Petroleum. Conoco
5 acquired this acreage from Mesa.

6 Q. This is Conoco's first attempt to drill a
7 Strawn well in this area?

8 A. It's the second attempt. The first was the
9 11 that encountered the 90 feet of porosity.

10 Q. Did Conoco use seismic on that well?

11 A. That's correct. That's the well that's 600
12 feet east of the Number 1. That encountered no
13 porosity.

14 Q. Is the 11 a pretty good well?

15 A. It started out at, I believe it was 301
16 barrels of oil a day. It's since come down. I'm not
17 sure what the current rate is now.

18 Q. In terms of the possible reserves underneath
19 the proposed location, do you think they're mostly
20 limited to the proration unit?

21 A. I would say the probable answer is yes. It's
22 difficult to really know exactly what the porosity is
23 doing until you get down there, and this is essentially
24 an untested pool, so it would be important to see what
25 kind of porosity is encountered.

1 EXAMINER CATANACH: I believe that's all the
2 questions I have of the witness. You may be excused.

3 Is there anything further in this case?

4 MR. KELLAHIN: No, sir.

5 EXAMINER CATANACH: Case 9912 will therefore
6 be taken under advisement.

7 (Thereupon, these proceedings were concluded
8 at 10:00 a.m.)

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CERTIFICATE OF REPORTER

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

I, Steven T. Brenner, 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 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 May 10, 1990.


STEVEN T. BRENNER
CSR No. 106

My commission expires: October 14, 1990

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 992, heard by me on May 2 1990.


David R. Cushman, Examiner
Oil Conservation Division