

NEW MEXICO OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING
STATE OF NEW MEXICO
CASE NO. 10730

IN THE MATTER OF:

The Application of Yates Petroleum
Corporation for an Unorthodox
Gas Well Location, Eddy County,
New Mexico.

BEFORE:

DAVID R. CATANACH

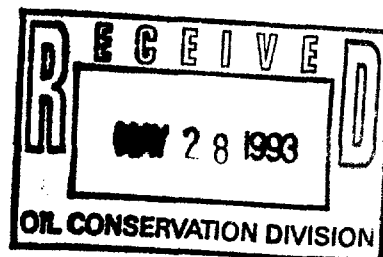
Hearing Examiner

State Land Office Building

May 20, 1993

REPORTED BY:

CARLA DIANE RODRIGUEZ
Certified Court Reporter
for the State of New Mexico



ORIGINAL

A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.

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Santa Fe, New Mexico 87504

FOR THE APPLICANT:

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BY: **WILLIAM F. CARR, ESQ.**

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1 EXAMINER CATANACH: At this time we'll
2 call Case 10730.

3 MR. STOVALL: Application of Yates
4 Petroleum Corporation for an unorthodox gas well
5 location, Eddy County, New Mexico.

6 EXAMINER CATANACH: Are there
7 appearances in this case?

8 MR. CARR: May it please the Examiner,
9 my name is William F. Carr with the Santa Fe law
10 firm, Campbell, Carr, Berge & Sheridan. I
11 represent Yates Petroleum Corporation, and I have
12 two witnesses.

13 EXAMINER CATANACH: Any other
14 appearances?

15 Will the two witnesses please stand to
16 be sworn in.

17 [The witnesses were duly sworn.]

18 D'NESE FLY

19 Having been first duly sworn upon her oath, was
20 examined and testified as follows:

21 EXAMINATION

22 BY MR. CARR:

23 Q. Will you state your name for the
24 record, please?

25 A. My name is D'Nese Fly.

1 Q. By whom are you employed?

2 A. I'm employed by Yates Petroleum
3 Corporation in Artesia, New Mexico.

4 Q. In what capacity?

5 A. As a petroleum geologist.

6 Q. Have you previously testified before
7 this Division and had your credentials accepted
8 and made a matter of record?

9 A. Yes, I have.

10 Q. At the time of that prior testimony,
11 were you qualified as an expert witness in
12 petroleum geology?

13 A. Yes.

14 Q. Are you familiar with the application
15 filed in this case on behalf of Yates Petroleum
16 Corporation?

17 A. Yes, I am.

18 Q. Are you familiar with the proposed
19 unorthodox well location?

20 A. Yes.

21 Q. Have you made a geological study of the
22 area involved in this case?

23 A. Yes, I have.

24 MR. CARR: Are the witness'
25 qualifications acceptable?

1 EXAMINER CATANACH: They are.

2 Q. Ms. Fly, could you briefly summarize
3 for Mr. Catanach what Yates seeks in this case?

4 A. Yes. Yates seeks authorization to
5 drill to the Morrow formation, Cemetery-Morrow
6 Gas Pool, its Conoco AGK Federal Well No. 15, at
7 an unorthodox location 660 feet from the south
8 line, 1980 feet from the east line of Section 26,
9 Township 20 South, Range 24 East.

10 Q. Mrs. Fly, Yates proposes to test both
11 the Canyon and the Morrow formation in this well,
12 do they not?

13 A. Yes, they do.

14 Q. This location will only be unorthodox
15 in the Morrow formation?

16 A. That is correct.

17 Q. Could you refer to what has been marked
18 for identification as Yates Petroleum Corporation
19 Exhibit No. 1 and review this exhibit for Mr.
20 Catanach?

21 A. Yes. This is a land plat of the
22 southeast quarter of 20-24. It is the nine
23 sections surrounding our proposed location.

24 The spacing unit of interest here is
25 highlighted in yellow, with the proposed location

1 being in red in Unit O. The other Yates acreage
2 is highlighted here in pink.

3 Q. Does this exhibit also show the
4 operators of the offsetting tracts?

5 A. Yes, it does.

6 Q. Is current development in this area
7 indicated by the color coding in the well spots?

8 A. Yes.

9 Q. Now, Mrs. Fly, this would be a standard
10 location for a lay-down spacing unit, would it
11 not?

12 A. That is correct.

13 Q. With the stand-up unit, on what
14 operators are you actually encroaching?

15 A. With the stand-up, we are encroaching
16 on Conoco to the south.

17 Q. And Conoco also has a well in the
18 northeast of the offsetting tract to the south?

19 A. Yes, the Preston Federal No. 6 in Unit
20 A.

21 Q. What acreage is dedicated to that well?

22 A. The north half of 35.

23 Q. Was that well also drilled at an
24 unorthodox well location?

25 A. Yes.

1 Q. The only other offsetting operator is
2 who, to the south and the east?

3 A. That would be Marathon.

4 Q. This location actually does not
5 encroach on the Marathon tract, does it?

6 A. No.

7 Q. Is Exhibit No. 2 a copy of an affidavit
8 confirming that notice of this application has
9 been provided to both Conoco and Marathon?

10 A. Yes.

11 Q. And attached to that affidavit, are
12 there letters and return receipts which show that
13 the notice was actually received?

14 A. Yes.

15 Q. Could you identify for Mr. Catanach
16 what has been marked as Yates Petroleum
17 Corporation Exhibit No. 3?

18 A. Yes, this is the letter we sent to
19 Conoco, Inc., on September 16, 1992, regarding
20 that we would not protest their unorthodox
21 location in Section 35 if they, likewise, would
22 not protest us in the south half of 26.

23 Q. Could you identify for Mr. Catanach
24 what has been marked as Yates Exhibit No. 4,
25 identify this and then review it for Mr.

1 Catanach?

2 A. All right. This is a structure map on
3 the top of the Canyon dolomite in the South
4 Dagger Draw field, with the contour interval
5 being 50 feet.

6 I'm submitting this structure map to
7 show the location of the Conoco HEK Fed No. 15,
8 and show that it is in an orthodox location for
9 the Canyon, which is our primary objective, and
10 stating here that it is on the south trend of the
11 oil leg which we are developing in South Dagger
12 Draw.

13 Q. What is the primary objective for this
14 well?

15 A. The primary objective is the Canyon
16 dolomite.

17 Q. Is this a reservoir which produces from
18 the South Dagger Draw-Upper Pennsylvanian
19 associated pool?

20 A. Yes, it is.

21 Q. And it is in this formation that we
22 have an orthodox location?

23 A. Correct.

24 Q. What is the secondary objective?

25 A. The secondary objective is the Upper

1 Morrow formation. This location was chosen
2 primarily for the Canyon. The necessity for this
3 unorthodox hearing has to do with the Morrow,
4 because this being a stand-up spacing unit makes
5 the Morrow formation unorthodox at this location.

6 Q. Was the necessity for the unorthodox
7 location in the Morrow based on geologic
8 conditions?

9 A. Yes.

10 Q. Let's go now to Exhibit No. 5, and I
11 would ask you to identify that and review it for
12 the Examiner.

13 A. Okay. Exhibit No. 5 is my combined
14 structure and sand isopach map of the Morrow
15 formation. The dotted lines here are structural
16 contours on top of the main Morrow clastics, with
17 the contour interval being 100 feet.

18 The solid lines are the isopach
19 contours, showing varying thicknesses of total,
20 clean, Upper Morrow sand. I'm defining "clean"
21 here as sand with less than 50 gamma ray API
22 units. The contour for the isopach is 10 feet.

23 I've shown here that the Morrow
24 producers are highlighted in red, the Atoka
25 producer is in yellow, the Canyon gas producers

1 are in blue, and the plugged-back Canyon oil
2 producers are in green. All of these did
3 penetrate the Morrow.

4 Q. Can you explain to the Examiner exactly
5 why this proposed location was selected?

6 A. The proposed location was chosen to
7 encounter the maximum amount of Morrow sand
8 within our spacing unit. It's geologically
9 located on the axis of the northward trending
10 Upper Morrow sand thick, and we are expecting to
11 encounter approximately 40 feet of sand, which is
12 a little less than what the Preston Federal No. 6
13 encountered, to the south of us here.

14 And the Preston Federal 6 is also
15 unorthodox and is producing at gas line capacity
16 of over 7 million cubic feet of gas per day. I
17 put the structural configurations on here just to
18 help interpret the geologic picture. It does not
19 really pertain to this prospect at all.

20 Q. But it does show the regional southeast
21 trend?

22 A. The regional dip to the southeast.

23 Q. Let's go now to Yates Exhibit No. 6.
24 Could you identify and review this for Mr.
25 Catanach?

1 A. Yes. Exhibit No. 6 here is a portion
2 of the Conoco Preston Federal No. 6 density
3 neutron log located at its unorthodox bottom hole
4 location of 729 feet from the north line and 753
5 feet from the east line of Section 35, Township
6 20 South, Range 24 East.

7 This well was deviated, for topographic
8 reasons, from the surface location of 990 feet
9 from the north and 460 feet from the east. The
10 log excerpt covers the entire main Morrow
11 clastics interval, with pertinent tops being
12 highlighted here as the main Morrow clastics at
13 9293 measured depth, the Lower Morrow at 9408
14 measured depth, and the Mississippian
15 unconformity at 9443.

16 Q. What portion of the Morrow formation
17 actually constitutes the Upper Morrow?

18 A. This is the shaley interval seen here
19 above the Lower Morrow marker at 9408 in what we
20 consider the main Morrow clastics, the shaley
21 sand interval, at 9293.

22 Q. Okay.

23 A. And it's these clean sands within this
24 Upper Morrow interval that were counted by the
25 less than 50 gamma ray API units and isopached,

1 that was shown in the previous exhibit.

2 The Preston Federal No. 6 log has
3 encountered about 48 feet of these sands.

4 Q. And what portion of the Morrow is of
5 principal interest to Yates?

6 A. The 32-foot sand that I've highlighted
7 here in red is the principal interest in this
8 well, and it's the pay delivering zone, and the
9 perforations are shown here on the log in the
10 center, on the right-hand side.

11 Q. Could you generally summarize for Mr.
12 Catanach the geological reasons behind Yates
13 selecting this unorthodox location in the Morrow
14 formation?

15 A. Yes. In summary, the proposed location
16 is, geologically, the best location in the east
17 half of Section 26 for the Morrow formation, and
18 should recover the greatest amount of hydrocarbon
19 products from this proration unit, thereby
20 preventing waste and protecting correlative
21 rights.

22 Q. Mrs. Fly, will Yates call an additional
23 witness to discuss penalty considerations,
24 drainage, and other correlative rights issues?

25 A. Yes.

1 Q. Were Exhibits 1 through 6 either
2 prepared by you or have you reviewed them and can
3 you testify as to their accuracy?

4 A. Yes.

5 MR. CARR: At this time, Mr. Catanach,
6 we would move the admission of Yates Petroleum
7 Corporation Exhibits 1 through 6.

8 EXAMINER CATANACH: Exhibits 1 through
9 6 will be admitted as evidence.

10 MR. CARR: That concludes my direct
11 examination of Mrs. Fly.

12 EXAMINATION

13 BY EXAMINER CATANACH:

14 Q. Mrs. Fly, is structure important, as
15 far as getting a good Morrow well?

16 A. No, this is mainly stratigraphic here.
17 It does play an important role farther to the
18 east, but we're updip from that.

19 Q. At a standard location in the east half
20 for a Morrow, you would expect to encounter
21 considerably less sand?

22 A. Correct, less than 10 feet, which would
23 not be economic. It would not pay for the
24 Morrow, for the well.

25 Q. The Marathon well in Section 36, do you

1 know anything about that well's capability?

2 A. I just know they have applied for an
3 unorthodox location there in Unit L, I think is
4 what it would be, 1980 from the south and 660
5 from the west, I think. And I have no idea if
6 that has been drilled yet or is in the process of
7 being drilled.

8 Q. Looks like the Indian Hills No. 2, the
9 one in Unit P of Section 36--

10 A. Yes.

11 Q. --that looks like it encountered, what,
12 about four feet of sand?

13 A. Uh-huh, in the upper Morrow that's what
14 it encountered.

15 Q. Do you know if that's a commercial
16 producing well?

17 A. I think they did IP that one for--let
18 me see if I can find that--this cum'd 48 MMcf,
19 and I am not sure if that is solely out of the
20 Upper Morrow. I cannot say right now.

21 Q. There are currently some Canyon wells
22 in Section 26 that Yates operates?

23 A. Yes. They are shown in Exhibit No. 4.

24 Q. Are those proration units already
25 established as the east half and the west half?

1 A. Yes.

2 Q. There is no Morrow production in the
3 north half of Section 26?

4 A. There is no Morrow production at all in
5 Section 26.

6 Q. Okay. The well just to the east of the
7 proposed location, that is a Canyon oil producer?

8 A. Yes, it is. We did take that down to
9 the Morrow, and encountered 16 feet within the
10 Upper Morrow, and plugged back to the Canyon.

11 Q. A completion wasn't attempted in the
12 Morrow?

13 A. No. We did DST it and it was tight.
14 And when we logged it-- No, sir, we did not DST
15 that one. I'm sorry. We logged it, and there
16 was not enough porosity there or permeability.

17 Q. Is that, in your opinion, because it's
18 on the outer flank of the sand channel?

19 A. Yes. It was a more very fine to fine
20 sand, whereas the heart of the channel, which the
21 Preston 6 encountered, was a coarse, grain sand.

22 Q. What control do you have to map that
23 sand to the north there?

24 A. As you can see, there's not much
25 control down in this area. This Preston 6 opened

1 up a new, what I consider a distributary channel
2 running through here. This is kind of a deltaic
3 sequence in the Morrow in this area, and you have
4 dendritic channels running through here.

5 Q. So you just use the existing wellbores
6 to map that channel?

7 A. Yes. There is no seismic involved, if
8 that's what you mean.

9 Q. In your opinion, a well at a standard
10 location would be probably noncommercial?

11 A. Yes, sir.

12 Q. You testified, on Exhibit No. 3, you
13 had a letter dealing with Conoco. Do you know if
14 Conoco actually executed the agreement?

15 A. I am not sure. I don't think we ever
16 got a written response from them. We did not
17 appear at the hearing, and the well has already
18 been drilled, and they have not submitted any
19 protest.

20 EXAMINER CATANACH: I have nothing
21 further.

22 MR. STOVALL: Not me.

23 MR. CARR: At this time we would call
24 Dr. Boneau.

25 **DAVID FRANCIS BONEAU, Ph.D.**

1 Having been first duly sworn upon his oath, was
2 examined and testified as follows:

3 EXAMINATION

4 BY MR. CARR:

5 Q. Will you state your name for the
6 record, please?

7 A. My name is David Francis Boneau.

8 Q. By whom are you employed?

9 A. Yates Petroleum Corporation.

10 Q. In what capacity?

11 A. I work as reservoir engineering
12 supervisor.

13 Q. Dr. Boneau, have you previously
14 testified before this Division?

15 A. Yes, sir.

16 Q. At the time of that prior testimony,
17 were your credentials as a petroleum reservoir
18 engineer accepted and made a matter of record?

19 A. Yes, sir.

20 Q. Are you familiar with the application
21 filed in this case on behalf of Yates Petroleum
22 Corporation?

23 A. Yes, that's correct.

24 Q. Are you familiar with the proposed
25 unorthodox location?

1 A. Yes.

2 Q. Have you made an engineering study of
3 the area involved in this matter?

4 A. Yes, sir.

5 MR. CARR: Are the witness'
6 qualifications acceptable?

7 EXAMINER CATANACH: They are.

8 Q. Have you prepared certain exhibits for
9 presentation here today?

10 A. Yes, I have prepared two exhibits, I
11 would say.

12 Q. Would you refer to what has been marked
13 as Yates Exhibit No. 7, identify this and then
14 and review it for Mr. Catanach?

15 A. Yates Exhibit No. 7 consist of three
16 pieces of paper. The front page is a semblance
17 of a map. It's a little map talking mainly about
18 the drainage area of the Preston Federal No. 6.

19 Yates is seeking this unorthodox
20 location. We are asking that no penalty be
21 applied to our well. We actually have three
22 reasons, I think, for seeking that, and you've
23 heard probably the two best.

24 We think there should be no penalty
25 because the proposed location is an orthodox

1 location for a south half spacing unit. We think
2 it should have no penalty because the competing
3 well is a very good well and is also at an
4 orthodox location. And the third reason I really
5 came to discuss is the performance of the Preston
6 Federal No. 6, and the conclusion, really, is
7 going to be that we have a good possibility of
8 being drained by that well, and there's
9 essentially no chance that our well will drain
10 anything off our lease.

11 Q. Dr. Boneau, when you talk about the
12 competing well, the Conoco well in the north half
13 of 35, that well is at an unorthodox location, is
14 it not?

15 A. Yes.

16 Q. And is that well penalized because of
17 the unorthodox location?

18 A. No, sir.

19 Q. All right. Let's go to Exhibit No. 7
20 now, and if you could review that for Mr.
21 Catanach?

22 A. Okay. So what's shown on the front
23 page of Exhibit No. 7 is an outline of the Morrow
24 channel, and that is the outline of the isopach
25 that was drawn on Exhibit 5. It shows three

1 wells, an open circle for the proposed Yates
2 location for the Conoco AGK #15. It shows a
3 black circle for the location of the Yates-Conoco
4 AGK #9, the well that was taken to the Morrow and
5 plugged back to the Canyon by Yates.

6 We avoided coming to a hearing on that
7 one by drilling a dry hole.

8 For the Examiner's information, the AGK
9 #15, just to diverge a second, is being drilled
10 at this moment. Yesterday we were about 7500
11 feet testing the Canyon on DST.

12 The third well is the real interesting
13 well, the Preston Federal No. 6, located in Unit
14 A of Section 35. This Conoco well went on line
15 approximately March 1st, and what I've shown on
16 the front page is a circle showing its drainage
17 area as of the end of this month.

18 So, at the end of May it will have
19 produced three months and drained 26-1/2 acres,
20 and has a drainage circle as shown on the front
21 page of the exhibit.

22 The continuing story--and we'll get to
23 the other pages in just a second--the continuing
24 story, the well's making 7 million a day and it's
25 a solid 7 million a day, so it's making about 200

1 million a month. The exhibit shows where it will
2 be at the end of this month.

3 On July 10th, that circle will reach
4 our boundary. In September, that circle will
5 completely fill the channel, from the northeast
6 edge of the channel to the southwest edge of the
7 channel.

8 So, the Conoco well is draining the
9 available Morrow reservoir very rapidly, and it's
10 going to compete with the Yates well and it is
11 going to drain its own area and the surrounding
12 areas very rapidly.

13 So the Yates well has probably, in my
14 opinion, a zero chance of being a 7 million a day
15 well. We hope it's a 2 or 3 million a day well.
16 The competition is just going to be such that
17 we're going to be after our gas, and the Conoco
18 well has the proven capability to drain its own
19 area and some Yates and Marathon acreage.

20 That's the basic argument. The other
21 pages fill in those numbers. On the second
22 page--I'm not going to go through all the
23 numbers, but a couple of them are of
24 interest--two or three inches down, right above
25 Item No. 2, it says, "Hydrocarbon pore volume is

1 2.637 feet of gas porosity in the Preston Federal
2 No. 6."

3 The third page of the exhibit is a
4 foot-by-foot calculation of that number. Item
5 No. 2 on the second page talks about production.
6 In March of 93, the first month it was on line,
7 it made 191 million cubic feet. In April it made
8 218 million cubic feet.

9 Yates has a small interest in the well.
10 We get the reports, and these are the numbers.
11 The May number has got to be an estimate since
12 May is not quite over yet, but the well is
13 holding steady at 7 million a day. So, in three
14 months it will have made over 600 million cubic
15 feet of gas.

16 Part 3 of the second page of the
17 exhibit is a calculation of this drainage area,
18 and as of June 1st the circle will have a radius
19 of 606 feet. By an extension of that, on July
20 10th that circle will reach our boundary, and a
21 couple of months later it will entirely fill that
22 channel.

23 So, the Preston Federal is draining the
24 Morrow channel very rapidly, and our well is
25 going to have a tough time competing with no

1 penalty, and with the penalty we would have no
2 chance at all.

3 Q. All right. Let's go to what's marked
4 as Exhibit No. 8, and I would ask you to identify
5 and review that.

6 A. Exhibit No. 8 consist of two pieces of
7 paper, and it's some subsidiary numbers just to
8 kind of fill in the picture for the Examiner.

9 It is simply a calculation of the gas
10 in place in the Morrow channel, both in Section
11 26 and in Section 35, and it uses the isopachs
12 that were presented in Exhibit 5. I didn't
13 redraw those, but I planimetered all those.

14 The conclusion is that in Section 26
15 there's 1.9, approximately, Bcf of gas in place,
16 and in Section 35 there's about three and a half
17 Bcf in place. Most of the gas, as you can see
18 from the map, is in Section 36. There's about 10
19 Bcf of gas in Section 36.

20 The Yates well, assuming it is
21 successful, is going to be competing for that 1.9
22 Bcf of gas. We hope to get 1.2, 1.5 Bcf. And
23 with no penalty we'll have a good chance of
24 getting that; with a penalty, the huge production
25 from the Preston Federal is going to drain us.

1 The second page of Exhibit 8 is simply
2 the planimetered calculations that lead to these
3 gas in place numbers on the front page of Exhibit
4 8.

5 Q. Dr. Boneau, if this application is
6 approved and a penalty should be imposed by the
7 Division, would the correlative rights of Yates
8 Petroleum Corporation be impaired?

9 A. Yes, that's clearly my opinion.

10 Q. Conversely, if the application is
11 approved with no penalty, will the correlative
12 rights of any offsetting operator be adversely
13 affected?

14 A. No, sir.

15 Q. In your opinion, will approval of
16 Yates' application be in the best interest of
17 conservation, prevention of waste, and the
18 protection of correlative rights?

19 A. Yes, sir.

20 Q. Were Exhibits 7 and 8 prepared by you?

21 A. That's correct.

22 MR. CARR: At this time, Mr. Catanach,
23 we move the admission of Yates Petroleum
24 Corporation Exhibits 7 and 8.

25 EXAMINER CATANACH: Exhibits 7 and 8

1 will be admitted into evidence.

2 MR. CARR: That concludes my direct
3 examination of Dr. Boneau.

4 EXAMINATION

5 BY EXAMINER CATANACH:

6 Q. Dr. Boneau, is this going to be a dual
7 completion?

8 A. No, I think it is not going to be a
9 dual completion. If this well is a successful
10 Morrow completion, we will produce the Morrow;
11 and when it is depleted, we will plug back to the
12 Canyon. That's the answer. We've had one or two
13 other wells go like that, and that's been the
14 mode of operation.

15 Q. Is it your opinion that the Preston
16 well will, if you don't drill a well in Section
17 26 to the Morrow, will that Preston Federal drain
18 the acreage in Section 26?

19 A. If there were no other wells drilled,
20 the Preston Federal No. 6 would drain most of the
21 gas in Section 26 and an appreciable amount of
22 the gas in Section 36. It would drain a long
23 way, yes. It has very good permeability and
24 porosity.

25 Q. All of your calculations and reserve

1 estimates are based upon Ms. Fly's geologic
2 interpretation?

3 A. That's correct. The performance of the
4 Preston Federal 6 and the expansion of its
5 drainage area is not based strictly on that
6 interpretation, but the rest of it clearly is.

7 Q. Is the quality of the reservoir in the
8 Preston Federal No. 6, is it going to be
9 considerably better than what you hope to
10 encounter?

11 A. The map and the geological
12 interpretation has the Yates well being right on
13 top, in the thickest part of the channel. If
14 that is actually true, the well will be somewhat
15 poorer than the Preston Federal. It's got 42
16 feet compared to 48 feet, or something on that
17 order.

18 The geologists aren't always exactly
19 right, and we'll be real lucky to get something
20 75 percent as good as the Preston Federal. We'll
21 take something half as good as the Preston
22 Federal.

23 EXAMINER CATANACH: I don't have
24 anything further. Bob?

25 MR. STOVALL: I've learned long ago not

1 to question Dr. Boneau.

2 MR. CARR: We have nothing further in
3 this case, Mr. Catanach.

4 EXAMINER CATANACH: There being nothing
5 further, Case 10730 will be taken under
6 advisement.

7 MR. CARR: Thank you.

8 (And the proceedings concluded.)
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25

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 10730,
heard by me on May 20 1983.
David R. Catanach, Examiner
Oil Conservation Division

1
2
3 CERTIFICATE OF REPORTER4 STATE OF NEW MEXICO)
5) ss.
6 COUNTY OF SANTA FE)7 I, Carla Diane Rodriguez, Certified
8 Court Reporter and Notary Public, HEREBY CERTIFY
9 that the foregoing transcript of proceedings
10 before the Oil Conservation Division was reported
11 by me; that I caused my notes to be transcribed
12 under my personal supervision; and that the
13 foregoing is a true and accurate record of the
14 proceedings.15 I FURTHER CERTIFY that I am not a
16 relative or employee of any of the parties or
17 attorneys involved in this matter and that I have
18 no personal interest in the final disposition of
19 this matter.

20 WITNESS MY HAND AND SEAL May 21, 1993.

21
22 
23 CARLA DIANE RODRIGUEZ, RPR
24 CCR No. 4
25