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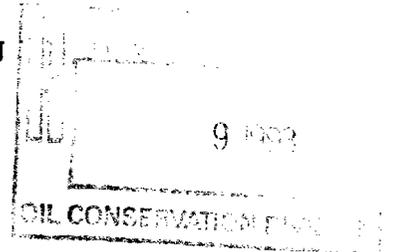
NEW MEXICO OIL CONSERVATION DIVISION  
STATE LAND OFFICE BUILDING  
STATE OF NEW MEXICO  
CASE NO. 10791

IN THE MATTER OF:

The Application of Yates Petroleum  
Corporation for an unorthodox gas well  
location, Eddy County, New Mexico

BEFORE:

MICHAEL E. STOGNER  
Hearing Examiner  
State Land Office Building  
August 26, 1993



**ORIGINAL**

REPORTED BY:

SUSAN B. SPERRY  
Certified Court Reporter  
for the State of New Mexico

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A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.  
General Counsel  
State Land Office Building  
Post Office Box 2088  
Santa Fe, New Mexico 87504-2088

FOR THE APPLICANT:

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.  
110 N. Guadalupe, Suite 1  
P. O. Box 2208  
Santa Fe, New Mexico 87504-2208

BY: William F. Carr, Esq.

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1 EXAMINER STOGNER: Hearing come to order  
2 again. Call the next case, No. 10791.

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

6 EXAMINER STOGNER: Call for appearances.

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

11 EXAMINER STOGNER: Are there any other  
12 appearances in this matter? Will both witnesses please  
13 stand to be sworn?

14 ROBERT BULLOCK

15 After having been first duly sworn under oath,  
16 was questioned and testified as follows:

17 EXAMINATION

18 BY MR. CARR:

19 Q. (By Mr. Carr) Would you state your name for the  
20 record, please?

21 A. My name is Robert Bullock.

22 Q. Where do you reside?

23 A. I reside in Artesia, New Mexico.

24 Q. By whom are you employed?

25 A. Employed by Yates Petroleum Corporation.

1 Q. What is your current position with Yates  
2 Petroleum Corporation?

3 A. I'm a landman.

4 Q. Mr. Bullock, have you previously testified  
5 before this Division?

6 A. Yes, sir.

7 Q. At the time of that prior testimony, were your  
8 credentials as a landman accepted and made a matter of  
9 record?

10 A. Yes, sir.

11 Q. Are you familiar with the application filed in  
12 this case on behalf of the Yates Petroleum Corporation?

13 A. Yes, I am.

14 Q. Are you familiar with the status of the lands in  
15 the subject area?

16 A. Yes, sir.

17 MR. CARR: Are the witness's qualification  
18 acceptable?

19 EXAMINER STOGNER: They are.

20 Q. (By Mr. Carr) Mr. Bullock would you briefly  
21 state what Yates seeks with this application?

22 A. Yates seeks the application for an unorthodox  
23 well location to drill the Beauregard ANP State Com No. 1  
24 well. It's to be drilled 660 feet from the north line,  
25 1980 feet from the east line, Section 14 Township 18

1 South, Range 27 East, Eddy County, New Mexico, with the  
2 dedication of the well to be the east half of Section 14.

3 Q. Have you prepared exhibits for presentation here  
4 today?

5 A. Yes, sir.

6 Q. Let's go to what has been marked Yates Exhibit  
7 No. 1. I'd ask you to identify this for Mr. Stogner, and  
8 then review the information contained thereon.

9 A. This is our map with the proposed location of  
10 the Beauregard ANP State Com No. 1 Well. We have  
11 attempted to define with the red line a working interest  
12 unit known as our Beauregard Unit. Yates Petroleum is the  
13 operator of that unit.

14 We have in that, within the boundaries of that  
15 unit, we have drilled a Morrow gas well in the south half  
16 of 23. We are presently drilling a canyon well in the  
17 west half of Section 14.

18 And then we have, we would like to spud our  
19 proposed unorthodox gas well location prior to  
20 mid-October, that location is shown in the box, with an  
21 arrow pointing to it.

22 We've also shown wells in Section 11 of the  
23 section immediately north of this section, and a few other  
24 wells around that Mr. Fly will comment on in his  
25 geological presentation.

1 Q. So, what we have here in the red outline is a  
2 working interest unit?

3 A. That's correct.

4 Q. Operated by Yates?

5 A. That's correct.

6 Q. The well is going to be dedicated to an east  
7 half stand-up unit?

8 A. That's correct.

9 Q. And, accordingly, it is too close to the  
10 northern boundary of the dedicated acreage?

11 A. Yes, sir.

12 Q. Who is the operator of the offsetting track to  
13 the north?

14 A. That operator is Amoco Production Company.

15 Q. Do they have a Morrow well in the southwest  
16 quarter of Section 11?

17 A. Yes, sir, they do.

18 Q. And that's the only interest on whom Yates is  
19 encroaching; is that correct?

20 A. That is correct.

21 Q. Has notice of today's hearing been provided to  
22 Amoco in accordance with OCD rules?

23 A. Yes, it has.

24 Q. And, is Exhibit No. 2 a copy of an affidavit  
25 confirming that that notice has been given with, attached

1 thereto, the letter to Amoco, and the return receipt?

2 A. Yes, sir.

3 Q. Will Yates be calling a geological witness to  
4 explain the reasons for this particular location?

5 A. Yes, they will.

6 Q. Were Exhibits 1 and 2 either prepared by you, or  
7 compiled at your request and direction?

8 A. Yes, sir.

9 MR. CARR: At this time, Mr. Stogner, we  
10 would move the admission of Yates Exhibits No. 1 and 2.

11 EXAMINER STOGNER: They will be admitted  
12 into evidence.

13 MR. CARR: That concludes my direct  
14 examination of Mr. Bullock.

15 EXAMINATION

16 BY EXAMINER STOGNER:

17 Q. The working interest unit shown in red, is that  
18 100 percent Yates?

19 A. No. No, Yates has approximately 30 percent  
20 ownership in that unit.

21 MR. STOVALL: When you say "Yates," do you  
22 mean all the related Yates companies that usually  
23 share --

24 THE DEPONENT: I would say Yates Petroleum  
25 Corporation and Yates Drilling Company.

1 MR. STOVALL: MYCO and all the others are  
2 not involved?

3 THE DEPONENT: They're not involved in this  
4 unit.

5 Q. (By Examiner Stogner) The well down to the  
6 south, Beauregard Common 1?

7 A. Yes, sir.

8 Q. That's part of that working interest unit?

9 A. That's correct.

10 Q. The Beauregard "ANM" State No. 1 in the west  
11 half of 14, is that a proposed well or existing?

12 A. It's being drilled right now.

13 Q. And, under the working unit agreement?

14 A. Yes.

15 Q. And this will be an east half dedication.  
16 You've included the Abo. Is there a particular reason  
17 that I'm not seeing? Or, perhaps you're not the one I  
18 need to ask.

19 A. Why don't you address that to Mr. Fly?

20 EXAMINER STOGNER: Okay. With that, I'm  
21 through with Mr. Bullock. He may be excused.

22 MR. CARR: At this time, Mr. Stogner, to  
23 answer questions, we'll call Mr. Fly.

24 EXAMINER STOGNER: Thank you.

25

1                                   STERLING FLY, III

2                   After having been first duly sworn under oath,  
3                   was questioned and testified as follows:

4                                   EXAMINATION

5 BY MR. CARR:

6           Q.    Would you state your name for the record,  
7 please?

8           A.    My name is Sterling Fly, III.

9           Q.    Where do you reside?

10          A.    Artesia, New Mexico.

11          Q.    By whom are you employed?

12          A.    Yates Petroleum.

13          Q.    What is your current position with Yates  
14 Petroleum Corporation?

15          A.    I'm a petroleum geologist.

16          Q.    Have you previously testified before this  
17 Division?

18          A.    Yes, I have.

19          Q.    And, at the time of that testimony, were your  
20 credentials as a petroleum geologist accepted and made a  
21 matter of record?

22          A.    They were.

23          Q.    Are you familiar with the application filed in  
24 this case on behalf of Yates Petroleum Corporation?

25          A.    Yes, sir.

1 Q. Have you made a geological study of the area  
2 involved in this application?

3 A. Yes, sir.

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

6 EXAMINER STOGNER: They are.

7 Q. (By Mr. Carr) Did you initially, Mr. Fly, advise  
8 the Examiner what formations are the primary objectives in  
9 the proposed well?

10 A. Okay. Our primary objectives are the Upper Penn  
11 Dolomite Reservoir and the Morrow clastics.

12 Q. You're also going to test other zones?

13 A. We will test anything that we deem necessary.

14 Q. Primary zones are the Upper Penn Dolomite, and  
15 the Morrow?

16 A. Yes, sir.

17 Q. Why is Yates proposing to drill a well at an  
18 unorthodox location?

19 A. Well, the necessity for the unorthodox location  
20 is based on geologic conditions prevailing within this  
21 half section.

22 An unorthodox location is more critical to the  
23 -- for proper or for successful completion of the Upper  
24 Penn Dolomite, but it's also very important for the Morrow  
25 clastics.

1           Q.    Let's go to what has been marked for  
2 identification as Yates Petroleum Corporation Exhibit No.  
3 3, and I ask you to identify that, and then review the  
4 information on this exhibit for Mr. Stogner.

5           A.    Okay. Exhibit No. 3 is a map which is contoured  
6 on top of the Upper Penn dolomite. The contours depict  
7 the subsea topography of a dolomatized carbonate buildup  
8 or knob, which has become reservoir rock. The contours do  
9 not reflect regional or tectonic structure.

10                   Contour interval on this map is 100 feet. The  
11 reservoir is productive one and a half to two miles to the  
12 south southwest of the proposed location. Those two wells  
13 are indicated by blue-colored well symbols.

14                   The initial completion of those two, which was a  
15 reentry, the Yates Chalk AKH Federal No. 1, located in  
16 Unit I of Section 22, this well was originally drilled to  
17 the Morrow by Oryx and abandoned.

18                   Yates reentered it, and made completion in the  
19 Upper Penn dolomite in June of 1993. The Upper Penn  
20 averaged 2.6 million cubic feet of gas per day, plus 70  
21 barrels of condensate per day, and 283 barrels of water  
22 per day.

23                   The other well was a south offset by Yates, the  
24 "Chalk" AKH Federal No. 2, located in Unit B of Section  
25 27. In May of 1993, this well averaged 644,000 cubic feet

1 of gas per day, plus five barrels of condensate, and 434  
2 barrels of water per day.

3           The second well's lower production is a  
4 function, primarily, of its lower structural position  
5 relative to the Chalk No. 1. In other words, it's 365  
6 feet low to the first well on top of the Upper Penn  
7 dolomite, and has 386 feet less of hydrocarbon-bearing  
8 reservoir.

9           On the map, the dashed line indicates a gas  
10 water contact of minus 4571 feet. That was determined by  
11 two drill stem tests which were taken in the confirmation  
12 well, the Chalk No. 2. The upper test yielded gas, and  
13 the lower test yielded water.

14           At this point, we don't know whether the gas-  
15 water contact is tilted or not. These two wells have been  
16 included within the East Red Lake Upper Penn field.

17           I would also point out in Section 14, unit L,  
18 Yates is currently drilling the Beauregard "ANP" State No.  
19 1. We have not drilled deep enough yet to get a data  
20 point to add to this map.

21           Section 15, Unit N, that well there, as you'll  
22 notice, is above the gas-water contact. We feel it might  
23 produce some gas, and probably a lot of water from this  
24 particular dolomite. At current, at present, it's  
25 producing gas from the Morrow.

1           Other Morrow wells in Section 22, Unit F,  
2 Section 23, Unit K, and Section 27, Unit E, are all too  
3 low structurally to encounter the hydrocarbon column.

4           The well down there at Section 27 Unit E did do  
5 a drill stem test, which produced 5,636 feet of water.

6           Mud logging is a very important tool in  
7 evaluating this particular reservoir. We look for  
8 drilling breaks with gas kicks and sample shows that  
9 indicate potentially productive hydrocarbon productive  
10 rock.

11           Drilling breaks without a gas increase, or with  
12 only a slight gas increase, indicate a water-productive  
13 dolomite. And a good example of this, the significance of  
14 mud logs, is seen in the Chalk Fed No. 2. The upper 21  
15 feet of dolomite had a drilling break and a good gas kick,  
16 and subsequently was perforated and completed as a gas  
17 well.

18           The next 65 feet of dolomite had drilling breaks  
19 with no gas increase in the other 5,601 feet of formation  
20 water. The Chalk Federal No. 1, the original operator did  
21 not put a mud logging unit on until the 344 feet into the  
22 dolomite, so we don't have mud logging information for the  
23 Chalk No. 1.

24           So, the proposed non-standard location is  
25 positioned to be high on Upper Penn dolomite knob,

1 separate from the dolomite knob to the south. In the map  
2 area, there are no DSTs from wells that penetrate the  
3 Upper Pen. The apparent highest well in Section 12, Unit  
4 E, is Amoco Diamond Fed. It was a 1973 Morrow test, which  
5 was a dry hole, had no DST reported in the Upper Penn.

6           The only mud log available to Yates in this  
7 northern knob was in Amoco Federal "DH", located in Unit M  
8 of Section 11. That mud log had a drilling break at the  
9 top of the Upper Penn Dolomite, but no gas increase, and  
10 it was not drill stem tested.

11           I'd like to point out that log saturation  
12 calculations have proven to be unreliable in evaluating  
13 this Upper Penn dolomite.

14           Now, as the mud logging discussion would  
15 indicate, the Upper Penn dolomite in the Amoco Federal  
16 "DH" is determined to be water wet, based on having no  
17 sample show again, or no gas shown.

18           It is therefore necessary to encounter the Upper  
19 Penn dolomite in this knob high enough to be, to have a  
20 chance for hydrocarbon productive. Using sub-surface  
21 data, proposed location maps out to be about 130 feet high  
22 to the Federal "DH" No. 1.

23           Q. So, basically, what you're trying to do, as  
24 shown on Exhibit No. 3, is maximize the location in the  
25 Upper Penn dolomite?

1           A.    The most favorable structural position is at the  
2 northern extreme on the east half of Section 14.

3           Q.    To date, there's been no production from this  
4 northern knob that you're trying to complete in?

5           A.    No, there are no DSTs, no perforations.  And,  
6 really, the only information is that Amoco "DH" which had  
7 a mud log with no gas.

8           Q.    Now, on this exhibit, there's a trace for a  
9 cross-section?

10          A.    Yes.

11          Q.    Was that Yates Exhibit No. 4?

12          A.    Yates Exhibit No. 4.  It is shown on Exhibit No.  
13 3 as a northwest to southeast trace.

14          Q.    All right.

15          A.    Southwest to northeast trace, excuse me.

16          Q.    All right, Mr. Fly.  Let's now go to the cross-  
17 section, it's the large exhibit.  And I'd ask you to  
18 identify, review for the Examiner, the information set  
19 forth on this cross-section.

20          A.    Exhibit 4 is the southwest to northwest  
21 structural cross-section which is hung on a subsea level  
22 of minus 5,000 feet.  Cross-section shows pertinent  
23 correlations, including the top of the Upper Penn  
24 dolomite.  The cross-section shows the depth dimension to  
25 augment the Upper Penn map.

1           And what I mean is, in the middle of the cross-  
2 section showing the proposed location, just to the right  
3 of it, shows a big trough-like feature in the top of the  
4 Upper Penn dolomite. And that corresponds to the low,  
5 which separates the southern and northern dolomite knobs.

6           Because the southern dolomitized buildup  
7 produces gas along with the water, and the Amoco Federal  
8 "DH" is believed to be water wet at the top of the Upper  
9 Penn dolomite, necessitates the presence of two separate  
10 dolomite knobs.

11           In other words, the "DH" is actually high to gas  
12 production to the south. DST and completion information  
13 are also shown on the cross-section, and indicate where  
14 these operations were performed. On the Federal "DH", a  
15 rise in Strawn reflects a south-plunging nose located --  
16 well, beneath the Federal DH or on the DH.

17           Vertical scale on the cross-section is two and a  
18 half inches; two and a half inches equal 100 feet. And no  
19 horizontal scale is intended.

20           Q.    Could you identify what has been marked Yates  
21 Exhibit No. 5?

22           A.    Exhibit 5 is a combined structural and sand  
23 isolate map, the dotted lines are structural contours on  
24 top of the Morrow clastics. Contour interval is 50 feet.  
25 Solid lines, solid black lines, are isolate contours

1 showing the varying thicknesses of total clean Morrow sand  
2 in these 15 map sections.

3 "Clean sand" is defined as those sands with  
4 less than 50 gammy ray API units. Contour interval for  
5 isolate is 20 feet.

6 The proposed location is on the axis of a Morrow  
7 sand thick, extending through proration unit under  
8 discussion. Also of importance is the structural position  
9 at the Morrow level. The proposed location is the highest  
10 structural Morrow location which would be allowed in the  
11 east half spacing unit.

12 To be structurally high is of importance because  
13 the two nearest well down dip to the south, have thick but  
14 water-wet channel sand reservoirs. Yates Chalk "AKH"  
15 Federal No. 1, in Section 22, Unit I, has a 44-foot thick  
16 Morrow distributary channel sand, and indicates wet on the  
17 logs, a log analysis.

18 In Section 23, Unit K, the Yates Beauregard No.  
19 1, is 47-foot distributary channel sand, and that  
20 calculates wet on the logs. And was drill stem tested,  
21 recovered 8300 feet of formation water.

22 The Beauregard No. 1 was subsequently completed  
23 in a different, thinner Morrow sand. Both of these wells  
24 are indicated on Exhibit 6, the accompanying cross-  
25 section.

1           As can be seen from the map, the proposed  
2 location is 100 feet high to the two channel Morrow wells  
3 -- to the two water-wet channel sands in Section 22 and  
4 23. And it's also 25 feet high to the nearest orthodox  
5 location.

6           Also at the other primary objective level, the  
7 Upper Penn, a well in Unit A or Unit B would have been  
8 acceptable. But, at the Morrow level, a well located at  
9 Unit B is more desirable than one located at Unit A.

10          Q. All right. Let's go to the cross-section, your  
11 Exhibit No. 6. Could you review the information on that  
12 exhibit for Mr. Stogner?

13          A. Exhibit 6 is a southwest to northeast  
14 stratigraphic cross-section which is hung on the top of  
15 the Morrow clastics. Pertinent correlations are shown.  
16 In other words, Morrow clastics and the Chester lime down  
17 below.

18                 The yellow coloring on the gamma ray curve  
19 indicates how the isolate values were obtained. And,  
20 you'll notice the two down-dip water wells are the two  
21 wells to the left side of the cross section.

22          Q. Mr. Fly, what conclusions have you been able to  
23 reach, based on your geologic study of this particular  
24 area?

25          A. Well, the proposed location is geologically the

1 best allowable location in the east half spacing unit for  
2 both of the primary objectives. For the Upper Penn  
3 dolomite, the proposed location affords the chance to  
4 encounter the reservoir high enough to be hydrocarbon  
5 productive.

6 And, for the Morrow objective, the proposed  
7 location should encounter a maximum amount of sand at the  
8 structurally highest position within the east half spacing  
9 unit.

10 Q. In your opinion, will approval of this  
11 application and the drilling of Beauregard well as  
12 proposed enable Yates to produce preserves that otherwise  
13 will not be recovered?

14 A. Yes.

15 Q. Will approval of the application be in the best  
16 interest of conservation, and prevention of waste, and the  
17 protection of correlative rights?

18 A. Yes, sir.

19 Q. How soon does Yates need to spud this well?

20 A. Before October 14.

21 Q. Have you reviewed Exhibits No. 3 through 6, and  
22 can you testify as to their accuracy?

23 A. Yes, I have.

24 MR. CARR: At this time, Mr. Stogner, we  
25 would move the admission of Yates Exhibits 3 through 6.

1 EXAMINER STOGNER: Exhibits 3 through 6  
2 will be admitted into evidence.

3 MR. CARR: And that concludes my direct  
4 examination of Mr. Fly.

5 EXAMINATION

6 BY EXAMINER STOGNER:

7 Q. Let's go to Exhibit No. 3. The trough that  
8 you're showing separating the two pod, did you say, or how  
9 do you identify that?

10 A. Knobs.

11 Q. Knobs. Are you utilizing any other data besides  
12 well information? Was there any kind of seismic  
13 information that you can go by that, perhaps, showed this?

14 A. No. What we know is that we have a gas-water  
15 contact at minus 4751. So, and then we also know that  
16 Amoco Federal "DH" up there is minus 4117, which would be  
17 above the gas-water contact if it were continuous with  
18 that southern knob.

19 So, therefore, there has to be a separation  
20 between the two knobs.

21 Q. What indication do you have that knob up to the  
22 north, where the Federal "DH" is, is all contiguous with  
23 that Diamond Federal 1, the Chalk Bluff Federal No. 2, and  
24 the Amoco Malco Federal No. 3?

25 A. Well, there's nothing to say that there isn't,

1 so, you know, going by the trend of similar occurrences,  
2 they have a certain typical size. They may not be.

3           They may not be all within one knob, but there's  
4 no reason to say they aren't.

5           Q. Now, you've given me a pretty localized or,  
6 again, referring to Exhibit No. 3, a pretty localized  
7 rendition of this pod-like structure out here.

8           If you had a bigger one, or extended this  
9 particular exhibit, say, a township in all directions,  
10 would there be plenty more of these pods that have been  
11 developed, show up in it?

12          A. Yes. To the southwest, along the -- I can't  
13 recall the field name, but there's numerous small fields  
14 off to the southwest. To the northeast, there's at least  
15 one well that had 600 or 700 feet of this same type of pod  
16 development.

17          Q. And, how about to the south and east, and then  
18 to the north and the west?

19          A. No.

20          Q. None whatsoever?

21          A. Well, none that would be within this same facies  
22 tract or trend.

23                   EXAMINER STOGNER: Mr. Carr, I'll scratch  
24 my question that I asked Mr. Bullock, that I wanted to ask  
25 Mr. Fly. I notice that there's a difference between the

1 application and the ad that corrects, the reason why I  
2 asked that question.

3           So, I'll withdraw that. And, with that, I have  
4 no other questions of Mr. Fly.

5           MR. CARR: We have nothing further of this  
6 case, Mr. Stogner.

7           EXAMINER STOGNER: Does anybody else have  
8 anything else further in case No. 10791? If not, this  
9 case will be taken under advisement. Let's take a  
10 ten-minute recess.

11           (And the proceedings concluded.)

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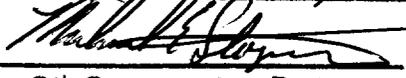
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I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 10791 ,  
heard by me on 26 August 1993 .

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 , Examiner  
Oil Conservation Division

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CERTIFICATE OF REPORTER

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

I, Susan B. Sperry, 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 caused my notes to be transcribed under my personal supervision; and that the foregoing is a true and accurate record of the proceedings.

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

WITNESS MY HAND AND SEAL September 5, 1993.

Susan B. Sperry

SUSAN B. SPERRY, RPR, CM  
CCR No. 156