	STATE OF NEW MEXICO		
1 2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO		
3	30 March 1988		
4	EXAMINER HEARING		
5			
6			
7	IN THE MATTER OF:		
8	Application of Enron Oil & Gas CASE Company for an unorthodox gas well 9341		
9	location, Eddy County New Mexico.		
10			
11			
12	BEFORE: Michael E. Stogner, Examiner		
13			
14	TRANSCRIPT OF HEARING		
15			
16	APPEARANCES		
17			
18	For the Division: Charles E. Roybal Attorney at Law		
19	Legal Counsel to the Division State Land Office Bldg.		
20	Santa Fe, New Mexico 87501		
21	For the Applicant: William F. Carr		
22	Attorney at Law CAMPBELL & BLACK P.A.		
23	P. O. Box 2208 Santa Fe, New Mexico 87501		
24	Sunda Loy Hen Honzoo U/Sul		
25			

```
2
 1
                            INDEX
2
3
5
   JAMES R. BROTEN
            Direct Examination by Mr. Carr
6
                                                    3
7
            Cross Examination by Mr. Stogner 12
8
9
10
11
12
13
14
                         EXHIBITS
15
   Enron Exhibit One, Order R-5782
16
17
   Enron Exhibit Two, Acreage Plat
                                                     7
   Enron Exhibit Three, Waiver Letters
18
                                                     8
   Enron Exhibit Four, Index Map
19
                                                     9
20
   Enron Exhibit Five, Isopach
                                                     9
   Enron Exhibit Six, Log
21
                                                    10
22
   Enron Exhibit Seven, Photograph
                                                    10
23
24
25
```

STOGNER: Call next Case MR.

3 9341.

MR. Application of 4 ROYBAL:

5 Enron Oil & Gas Company for an unorthodox gas well location,

Eddy County, New Mexico.

7 MR. CARR: May it please the

Examiner, my name is William F. Carr, with the law firm 8

9 Campbell & Black, P. A., of Santa Fe. We represent Enron

Oil & Gas Company and I have one witness who needs to be 10

sworn. 11

MR. STOGNER: Are there any 12

other appearances in this matter? 13

Will the witness please stand 14

15 to be sworn?

16

(Witness sworn.)

18

17

19 JAMES R. BROTEN.

20 being called as a witness and being duly sworn upon his

21 oath, testified as follows, to-wit:

22

23

DIRECT EXAMINATION

BY MR. CARR: 24

25 \mathbf{Q} Will you state your full name for the

```
southeastern New Mexico?
1
2
            Α
                       Yes, sir.
                        Are you familiar with the application
             Q
3
   filed in this case on behalf of Enron and also with the sub-
4
5
   ject area?
             Α
                       Yes, sir.
6
                                 MR. CARR: We tendr Mr. Broten
7
   as an expert witness in petroleum geology.
8
9
                                 MR.
                                      STOGNER: Mr. Broten is so
   qualified.
10
                            Broten, will you briefly state what
                       Mr.
11
   Enron seeks with this application?
12
                        Yes, sir. We seek to re-enter Amoco's
             Α
13
   plugged and abandoned well that was plugged in March of 1979
14
    for an Atoka test.
15
                       Is that the Teledyne 4 Gas Well No. 1?
16
17
             Α
                       Yes.
                       And what is the location of that well?
18
             Q
                        That well is located 660 from the south
19
             A
20
    line.
           330 from the east line of Section 4, Township 23
    South, Range 29 East, in Eddy County.
21
22
                        And what is the -- would you state what
             Q
    the primary objective in this re-entry is?
23
                       Yes, sir, it's the Atoka formation.
24
             Λ
25
                        Would you refer to what has been marked
             Q
```

```
for identification as Enron Exhibit Number One, and identify
 1
    that for the Examiner, please?
 2
             Α
                       Yes, sir. It's the Division Order No. R-
    5782.
             Q
                       Is this the order that approved the unor-
    thodox location for the Amoco Well?
                       Yes, sir.
 7
             Ä
                       Was a penalty imposed on this well's pro-
 8
9
    ducing capability as a result of this location?
                       No, sir.
10
                        Mr. Broten, befofe you go on would you
11
             Q
    just explain to the Examiner where the well is located and
12
    the reasons that you're seeking to re-enter this well?
13
                        Yes, sir. The well is located in the
14
             Α
    middle of a lake.
                        We are in a potash area and we feel eco-
15
16
    nomically this is the best way to test the Atoka formation.
                       Is this lake a potash disposal lake?
17
                       To my knowledge, yes, sir.
18
             A
                        And the well was previously constructed
19
             Q
20
    or drilled on an island constructed by Amoco?
21
             A
                       Yes, sir.
22
                        And what is the current status of
             0
                                                              the
    well?
23
24
             Α
                        The well is plugged and abandoned with
25
    the casing left intact.
```

1	Q	And how did Enron acquire its interest in
2	this property?	
3	A	We acquired interest Bettis and East-
4	land Oil Company h	ad the original leases and we bought in as
5	an interest owner	in that acreage.
6	Q	Would you refer to what's been marked for
7	identification as	Enron Exhibit Number Two, identify this,
8	and review the inf	ormation contained on this exhibit?
9	A	Okay. This is a leasehold acreage plat.
10	The yellow area in	dicates acreage that Enron Oil and Gas has
11	a working interest	in. The acreage that has a yellow border
12	surrounding it ind	icates we have a partial working interest
13	in that leasehold	and the solid yellow acreage indicates 100
14	percent working in	terest for Enron Oil & Gas.
15	Q	Is the subject well indicated on this
16	plat?	
17	A	Yes, sir.
18	Q	Is that by the red circle?
19	A	Yes, sir.
20	Ω	Does the plat also show the offsetting
21	ownership?	
22	A	Yes, it does.
23	Q	And is the boundary of the potash area
24	also indicated on	this exhibit?
25	A	The potash area is indicated by a heavy

BARON FORM 250-6P3 TOLL FREE IN CALIFORNIA 800 227-2434 NATIONWIDE 800-227-

```
dashed line.
1
                     What acreage does Enron propose to dedi-
            Q
2
   cate to this well?
3
                      The south half of Section 4.
            A
            Q
                      And how does that differ from the ac-
5
   reage Amoco had dedicated to the well?
7
                      The original well was drilled as an east
   half of Section 4 proration unit.
8
                       What is the status of the north half of
   the southeast corner of Section -- quarter of Section 4?
10
            Α
11
                       That is acreage owned by Bass Enter-
   prises.
12
                       And are they going to participate with
            Q
13
   you in this re-entry?
14
                      Yes, sir.
15
                      When Enron originally approached the Com-
16
   mission on this re-entry did they seek administrative
17
   approval for the re-entry?
18
19
            Α
                      Yes, sir.
20
                      Would you identify what's marked as Exhi-
   bit Number Three, please?
21
                      These are waiver letters sent out to off-
22
            A
   set operators.
23
24
            Q
                      Has Enron received waivers of objection
25
   from all the offset operators toward whom the well is being
```

23

24

25

1 moved from a standard location? 2 There have been no objections. 3 And the waiver letters are contained 0 Exhibit Three? 5 Yes. Α 6 Would you now refer to Enron Exhibit Num-7 ber Four and identify this, please? 8 Yes, sir. This is a current production 9 map color coded to indicate present zones of produc-10 tion in wells around the surrounding re-entry. 11 The blue circles indicate the 12 Atoka objective. 13 The EURs are indicated beside each well 14 of interest and this map's main purpose is to show that the 15 Atoka is a viable objective but there is some risk as can be 16 seen from the EURs as far as economic potentials. 17: O Would you now go to Exhibit Number 18 and identify that, please? 19 A Yes, sir. This is a gross Isopach map of 20 our primary objective within the Atoka. It represents the 21 carbonate bank that has just recently become ivanovian

The colors on the map represent various thicknesses within this bank, the blue being the thicker intervals; the darker gray being the next thicker intervals;

and the lesser thickness indicated by the light gray and the white areas less than five feet of gross pay.

Q In your opinion would it be possible to drill an Atoka well at a location to the north of the proposed re-entry from an economic point of view?

A To the north we see a thickening in the bank which would indicate at this time a higher potential for economic success.

Q Could you justify a location at this time up there or do you need to use the existing well and location?

A Due to the risk in this zone, inherent risk in this zone, economically we need to re-enter this well to establish viable production.

Q Would you now refer to Enron Exhibit Number Six and review that for Mr. Stogner?

A Yes, sir. This is the well in question that we seek to re-enter and it shows on the side we have the actual neutron density log which demonstrates the zone Isopachs. This is located at 12062 to 12082, this being our primary target at this re-entry.

Q Mr. Broten, are you familiar with Enron Exhibit Number Seven, which is a photograph?

A Yes, sir.

Q Could you tell Mr. Stogner what that

25

Α

Yes.

```
11
    photograph actually shows?
1
                        That is a picture showing
            Α
                                                     the
                                                          island
2
   where the re-entry will occur, the road leading to that is-
3
    land, and the lake surrounding that location, and we also
   see evidence of oil contamination on the lake as seen by the
   oil scum and skim on the waters there.
                       And this is a location you propose to use
7
    for your re-entry?
8
             Α
                       Yes, sir.
9
                        How soon does Enron plan to be ready to
10
    go forward with its plans for this well?
11
             A
                       In two weeks, hopefully.
12
                       In your opinion will granting this appli-
13
    cation result in the recovery of hydrocarbons that other-
14
    wise would not be recovered?
15
                       Yes, sir.
16
                       And will it also be in the best interest
17
   of conservation, the prevention of waste, and the protection
18
19
    of correlative rights?
             Α
                       Yes, sir.
20
21
             Q
                        Were Exhibits One through Seven
    prepared by you or compiled under your direction?
22
             A
                       Yes.
23
```

And can you testify to their accuracy?

```
BARON FORM 25016P3 TOLL FREE IN CALIFORNIA 800-227-2434 NATIONWIDE ROD-227-012
```

```
sure you knew it was there before we started to do anything.
 1
                       Now, this well is also located in the R-
2
             Q
   111 area. That's the potash/oil area, is that correct?
 3
             Α
                       Yes, sir.
                       Have you followed the procedures with the
             O
5
6
            companies on commencing drilling operations
 7
   oil and gas well in this area?
                       Yes, sir.
 8
             Ã
9
                       And how is that coming along?
             0
                       To this point there's been no objection.
10
             A
11
                      Okay. When did you contact them? Who did
             Q
   you contact?
12
                       When the letters were written.
13
             Α
                                 MR. CARR: The waiver letters,
14
   which are Exhibit Number Three, at the time those letters
15
16
   were written the potash companies were also contacted.
17
                                 MR.
                                      STOGNER:
                                                 Okay, just for
18
    the record, we won't mark it as an exhibit, could you make a
19
    capy of that so we could supplement our record?
20
                                 MR. CARR: And if we don't have
    them today we will supply them this week to you.
21
22
                                 MR.
                                      STOGNER:
                                                 If you would,
23
    please.
24
                                 MR. CARR: Okay.
25
                       Okay, now is this on Federal, State, for
```

```
HARDN FORM PACHED TOTT FREE IN CALIFORNIA ADDI-027 AND NATIONWICE BODI-02-07-0
```

```
fee land?
 1
                   Part of it is on Federal land and part of
 2
    it is fee land.
 3
 4
                       Okay. How about where the actual well
    location is, who will that be -- who will be getting the
 5
    paperwork on that?
 6
 7
             Α
                       It is on fee land.
                       Oh, fee land, okay, so the application
 8
    will be filed with our agency, is that correct?
 9
             A
                       That's correct, yes, sir.
10
11
             Q
                       Was there any Atoka production from this
    particular well?
12
                       No, sir, it was not tested.
13
             A
             0
                       Now, the dedicated acreage at the time of
14
    the Order No. R-5782 was written the east half was dedicated
15
    to the well, is that correct?
16
17
             Α
                       Yes, sir.
                       And it was dedicated to the well through-
18
19
    out its production history.
20
                       Yes, sir.
             Α
21
             Q
                        Okay, and now you are seeking a south
22
    half dedication, which essentially the well would be 330
    foot off the end boundary, is that correct?
23
24
                       Yes, sir.
             Α
25
             Q
                       And who is offsetting to the direct east
```

```
15
   in Section 3?
 1
             Α
                      That is Bass Enterprises.
2
3
             Q
                        And on Exhibit Number Three you have a
   waiver from them, is that correct?
4
                       Yes, sir.
5
             Α
6
                                 MR. STOGNER: Okay, I have no
7
   further questions of this witness.
                                 Are there any other questions?
8
9
                                 MR.
                                         CARR:
                                                   No
                                                         further
   questions.
10
11
                                      STOGNER: The witness can
                                 MR.
12
   be excused.
13
                                 Mr. Carr, do you have anything
   further in this case?
14
15
                                 MR. CARR: Nothing further, Mr.
   Stogner.
16
17
                                 MR. STOGNER: Does anybody else
18
   have anything further in Case Number 9341 to add at this
19
   time?
20
                                 The case will be taken under
21
   advisement.
22
23
                        (Hearing concluded.)
24
                                  Ÿ.
25
```

4 5

 $\texttt{C} \ \texttt{E} \ \texttt{R} \ \texttt{T} \ \texttt{I} \ \texttt{F} \ \texttt{I} \ \texttt{C} \ \texttt{A} \ \texttt{T} \ \texttt{E}$

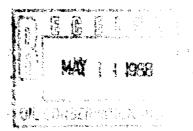
I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me the best of my ability.

Soely W. Boyd CSR

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 9341.

heard by many 30/March 1988.

Oil Conservation Division



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6292 Order No. R-5782

APPLICATION OF AMOCO PRODUCTION COMPANY FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 16, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 18th day of August, 1978, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Ameco Production Company, seeks approval of an unorthodox gas well location for its Teledyne Federal Gas Com. Well No. 1 to be drilled 660 feet from the South line and 330 feet from the East line of Section 4, Township 23 South, Range 29 East, NOPM, to test the Wolfcamp and Pennsylvanian formations, Eddy County, New Mexico.
- (3) That the E/2 of said Section 4 is to be dedicated to the well.
- (4) That a well at gaid unorthodox location will better enable applicant to produce the gas underlying the proration unit.

-2-Case No. 6292 Order No. R-5782

- (5) That no offset operator objected to the proposed unorthodox location.
- (6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That an unorthodox gas well location for the Wolfcamp and Pennsylvanian formations is hereby approved for the Amoco Production Company Teledyne Federal Gas Com Well No. 1 at a point 660 feet from the South line and 33% feet from the East line of Section 4, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (2) That the E/2 of said Section 4 shall be dedicated to the above-described well.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DOME at Santa Fe, New Mexico, on the day and year hersinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAPEY,

Director

ar/