

CASE 5857: UNION OIL CO. OF CALIF. FOR  
DIRECTIONAL DRILLING, LEA COUNTY, NEW  
MEXICO

CASE NO.

5857

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,  
ETC.

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 9, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Oil Company of  
California for directional drilling,  
Lea County, New Mexico.

CASE  
5857  
(Cont'd.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

Lynn Teschendorf, Esq.  
Legal Counsel for the Commission  
State Land Office Building  
Santa Fe, New Mexico

sid morrish reporting service  
General Court Reporting Service  
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501  
Phone (505) 982-9212

1 MR. NUTTER: We will call Case Number 5857.

2 MS. TESCHENDORF: Case 5857, application of Union Oil  
3 Company of California for directional drilling, Lea County,  
4 New Mexico.

5 MR. NUTTER: Case Number 5857 has also been previously  
6 heard but was readvertised due to an error in the advertisement.

7 Are there now any appearances to be made in Case  
8 Number 5857? If not, we will take the case under advisement.

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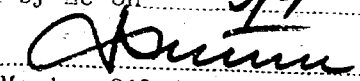
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REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,  
do hereby certify that the foregoing and attached Transcript  
of Hearing before the New Mexico Oil Conservation Commission  
was reported by me, and the same is a true and correct record  
of the said proceedings to the best of my knowledge, skill and  
ability.

  
Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5857,  
heard by me on 3/9, 1977.

  
Examiner  
New Mexico Oil Conservation Commission

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
February 16, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Oil Company of  
California for directional drilling,  
Lea County, New Mexico.

CASE  
5857

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission:	Lynn Teschendorf, Esq. Legal Counsel for the Commission State Land Office Building Santa Fe, New Mexico
For the Applicant:	Sumner C. Buell, Esq. JASPAR & BUELL Attorneys at Law 111 North Jefferson Santa Fe, New Mexico

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Page

JIMMIE R. HUGHES

Direct Examination by Mr. Buell

3

Cross Examination by Mr. Stamets

7

EXHIBIT INDEX

Offered      Admitted

Union's Exhibit One, Plat

4

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Union's Exhibit Two, Survey

5

8

Union's Exhibit Three, Schematic

5

8

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Phone (505) 982-9212

1 MR. STAMETS: At this time we will call Case 5857.

2 MS. TESCHENDORF: Case 5857, application of Union  
3 Oil Company of California for directional drilling, Lea  
4 County, New Mexico.

5 MR. BUELL: Mr. Examiner, I'm Sumner Buell of the  
6 firm of Jaspar and Buell appearing on behalf of the applicant  
7 and I have one witness.

8 MR. STAMETS: Will you stand and be sworn, please?  
9 (THEREUPON, the witness was duly sworn.)

10 MR. STAMETS: You may proceed.

11  
12 JIMMIE R. HUGHES

13 called as a witness, having been first duly sworn, was  
14 examined and testified as follows:

15  
16 DIRECT EXAMINATION

17 BY MR. BUELL:

18 Q Would you state your name, please, by whom you are  
19 employed, in what capacity and where?

20 A I'm Jimmie R. Hughes, employed by Union Oil Company  
21 of California in Midland, Texas as District Drilling Superin-  
22 tendent.

23 Q Mr. Hughes, have you previously testified before  
24 the Commission or one of its examiners and had your qualifica-  
25 tions accepted as a matter of record?

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1 A. I have.

2 Q. And are you familiar with what is sought in this  
3 application, Number 5857?

4 A. Yes.

5 Q. Basically what does Union Oil Company seek here?

6 A. We seek to reenter and directionally drill a  
7 previously abandoned well and complete as a Lower Morrow  
8 producer.

9 Q. Could you outline briefly for the Examiner the  
10 present status of this well, the field that it's in and some  
11 history of the well?

12 A. The well was originally drilled in 1960, completed  
13 in the Lower and Middle Morrow in the Quail Ridge-Morrow Field,  
14 produced for approximately one year with an accumulative  
15 production of about a hundred million feet of gas, about three  
16 thousand barrels of condensate and then plugged and abandoned  
17 in 1962.

18 It was the only well drilled in the Quail Ridge-  
19 Morrow Field.

20 Q. Is it presently the only well in the North Quail Ridge-  
21 Morrow Gas Pool?

22 A. Yes, it is.

23 Q. Now, referring you to what has been marked as  
24 Exhibit Number One, would you briefly outline what that shows?

25 A. Okay, Exhibit One is a surface plat showing the

1 proposed three hundred and twenty acre unit with the original  
2 well location, nineteen eighty from the north and nineteen  
3 eighty from the east.

4 The plat also shows the bottom-hole locations at  
5 twelve four of the present well, which is our proposed kick off  
6 point, as A, which is twenty-five feet west of the original  
7 location and it also shows our proposed total depth location  
8 at point B, which will be at thirteen thousand, six hundred feet,  
9 or TD. It shows the two windows at the surface, legal  
10 windows that we can drill in in this three hundred and twenty  
11 acres.

12 Q Okay, referring you to what has been marked as  
13 Exhibit Number Two, would you explain what that shows?

14 A Okay, Exhibit Number Two is a Sperry-Sun Survey  
15 which is a continuous gyro survey of the old hole to a depth  
16 of twelve thousand, nine hundred feet and it shows the direction  
17 the old hole took and on the last page it gives a planned  
18 diagram of the traverse of the old hole from the original  
19 location to the location of the well at twelve thousand four  
20 hundred feet which is our planned kick off point.

21 Q Okay, and referring you to Exhibit Number Three, would  
22 you briefly explain what is shown in that exhibit?

23 A This is another planned view of the traverse of the  
24 well from the original location to the point at twelve thousand  
25 four hundred feet or the kick off point and our proposed bottom-

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1 hole location at thirteen thousand, six hundred feet and the  
2 course we plan to take from our kick off point, which is a  
3 hundred feet south to TD. It also shows a vertical view of  
4 what we propose to do from twelve four to TD of thirteen  
5 thousand six hundred feet as far as the inclination is  
6 concerned.

7 Q This vertical view is shown on the left-hand side  
8 of this diagram?

9 A Yes, on the left, on the extreme left. It shows  
10 the deviations that we think we will attain in getting one  
11 hundred feet from the old hole at TD.

12 Q How does Union intend to drill this well from the  
13 kick off point at twelve thousand, four hundred feet?

14 A We plan to orient a whipstock at twelve thousand,  
15 four hundred feet inside the present seven inch casing, cut  
16 a window and directionally drill due south one hundred feet  
17 to TD at thirteen thousand, six hundred feet.

18 A Who is the offset operator to the west of this  
19 three hundred and twenty acre proration unit?

20 A Union has acreage in the west half of Section 7 and  
21 Pennzoil has the east half of the offset in Section 7 to the  
22 west.

23 Q Okay. Is it your opinion that the granting of this  
24 application would prevent waste and protect correlative rights?

25 A It is.

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*General Court Reporting Service*  
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1 Q. And why would it prevent waste?

2 A. It would save money by using this old hole instead  
 3 of drilling a new hole from the surface and it will allow us  
 4 to produce the reserves in the Morrow that we think exist that  
 5 were left in the ground.

6 Q. And why is it important to you to avoid the old  
 7 bottom-hole location?

8 A. Because we believe it was damaged from drilling mud  
 9 on the original completion. When they had a mechanical problem  
 10 they dumped the drilling mud on the interval and were unable to  
 11 attain the gas rates they previously had.

12 Q. Were Exhibits One, Two and Three prepared by you or  
 13 at your direction?

14 A. Yes, they were.

15 MR. BUELL: I have nothing further, Mr. Examiner?

16  
 17 CROSS EXAMINATION

18 BY MR. STAMETS:

19 Q. Mr. Hughes, your point A I believe you said was  
 20 twenty-five feet west of the surface location, is that  
 21 correct?

22 A. That's right, that's the point we plan to kick off,  
 23 that's at twelve thousand, four hundred feet.

24 Q. And then point B is your intended bottom-hole  
 25 location, one hundred feet directly south?

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1 A. That's right.

2 Q All right now, if I have added this correctly, your  
3 intended final bottom-hole location is two thousand and five  
4 feet from the east line and two thousand and eighty feet from  
5 the north line and I got that by adding twenty-five to  
6 nineteen eighty and adding one hundred to nineteen eighty.

7 A. That's right.

8 Q Now, if the Commission granted you a standard  
9 target of one hundred feet around that point would it be  
10 sufficient for your purposes in this case?

11 A. Yes.

12 MR. STAMETS: Any other questions of the witness?  
13 Have you offered your exhibits?

14 MR. BUELL: If I haven't I do.

15 MR. STAMETS: And if I haven't accepted them, I do.

16 (THEREUPON, Union's Exhibits One through  
17 Three were admitted into evidence.)

18 MR. STAMETS: Any other questions of the witness?

19 He may be excused.

20 (THEREUPON, the witness was excused.)

21 MR. STAMETS: Anything further in this case?

22 MR. BUELL: No, sir.

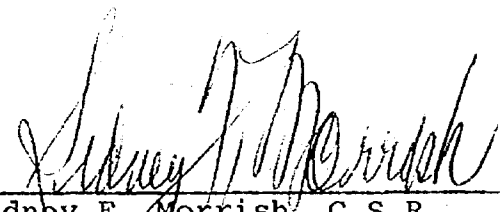
23 MR. STAMETS: The case will be taken under advise-  
24 ment.

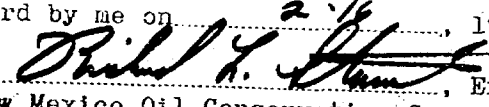
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REPORTER'S CERTIFICATE

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Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is,  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5857  
heard by me on 2-16, 1977.  
, Examiner  
New Mexico Oil Conservation Commission

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
March 9, 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Oil Company of  
California for directional drilling,  
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CASE  
5857  
(Cont'd.)

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

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For the New Mexico Oil	Lynn Teschendorf, Esq.
Conservation Commission:	Legal Counsel for the Commission
	State Land Office Building
	Santa Fe, New Mexico

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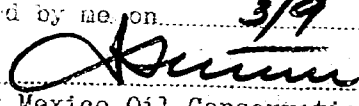


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Phone (505) 982-9212

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5857  
heard by me on 3/9, 1977.  
, Examiner  
New Mexico Oil Conservation Commission

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5857  
Order No. R-5390

APPLICATION OF UNION OIL COMPANY  
OF CALIFORNIA FOR DIRECTIONAL  
DRILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 9, 1977, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 15th day of March, 1977, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Union Oil Company of California, is the owner and operator of its Pipeline Deep Unit Federal Well No. 3, located 1980 feet from the North line and 1980 feet from the East line of Section 7, Township 19 South, Range 34 East, NMPM, Quail Ridge-Morrow Gas Pool, Lea County, New Mexico.

(3) That the applicant proposes to re-enter the subject well and to directionally drill said well in a southerly or easterly direction in such a manner as to bottom it in the Morrow formation within 100 feet of a point 2080 feet from the North line and 2005 feet from the East line of said Section 7 and no closer than 330 feet to the outer boundary of the proration unit.

-2-

Case No. 5857  
Order No. R-5390

(4) That the applicant should be required to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

(5) That approval of the subject application will prevent the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Oil Company of California, is hereby authorized to re-enter its Pipeline Deep Unit Federal Well No. 3, the surface location of which is 1980 feet from the North line and 1980 feet from the East line of Section 7, Township 19 South, Range 34 East, NMPM, Quail Ridge-Morrow Gas Pool, Lea County, New Mexico, and to directionally drill said well in a southerly or easterly direction in such a manner as to bottom it in the Morrow formation within 100 feet of a point 2080 feet from the North line and 2005 feet from the East line of said Section 7 and no closer than 330 feet to the outer boundary of the proration unit.

PROVIDED HOWEVER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the whipstock point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Commission, Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Commission's Hobbs District Office of the date and time said survey is to be commenced.

(2) That Form C-105 shall be filed in accordance with Commission Rule 1105 and the operator shall indicate thereon true vertical depths in addition to measured depths.

(3) That the E/2 of said Section 7 shall be dedicated to the subject well.

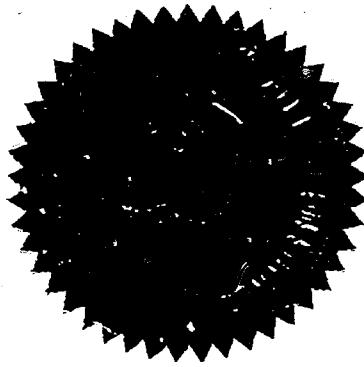
(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-

Case No. 5857  
Order No. R-5390

DONE at Santa Fe, New Mexico, on the day and year herein-  
above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



PHIL R. LUCERO, Chairman

*Emery C. Arnold*  
EMERY C. ARNOLD, Member

*Joe D. Ramey*  
JOE D. RAMEY, Member & Secretary

S E A L

dr/

# Memo

From  
D. S. NUTTER  
CHIEF ENGINEER

To

Held till after  
Mar 9 hearing  
cont of reader  
in Haber paper  
(fatal error in the  
paper for Feb 16 hrg)



STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87501

LAND COMMISSIONER  
PHIL R. LUCERO  
March 16, 1977



Mr. Sumner Buell  
Jasper & Buell  
Attorneys at Law  
Post Office Box 1626  
Santa Fe, New Mexico 87501

Re: CASE NO. 5857  
ORDER NO. R-5390

Applicant:

Union Oil Company of California

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY  
Director

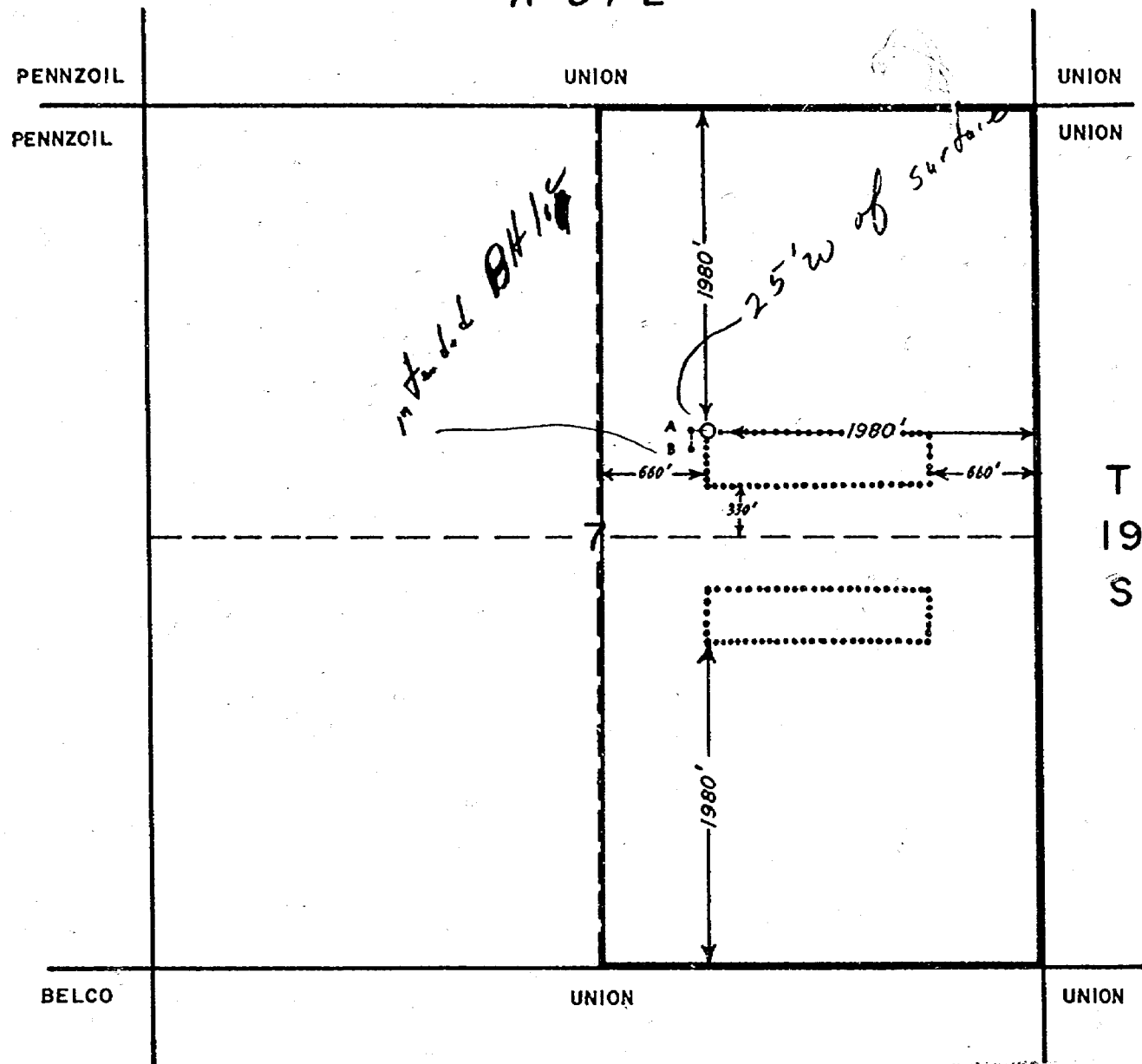
Copy of order also sent to:

Hobbs OCC	<u>x</u>
Artesia OCC	<u>x</u>
Aztec OCC	

Other

Pipeline Deep Unit - Federal Well No. 3  
LEA COUNTY, NEW MEXICO

R 34 E



A. Location of old hole at 12,400'  
B. Proposed bottom hole location at 13,600'  
320 Ac. Unit  
Scale 1"=1000'

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION  
App'l EXHIBIT NO. 1  
CASE NO. 5857  
Submitted by Union  
Hearing Date 2-16-77

Dockets Nos. 8-77 and 9-77 are tentatively set for hearing on March 9 and March 23, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - FRIDAY - FEBRUARY 11, 1977

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following case will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 5872: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the suspension of Rules 15(A) and 15(B) of the General Rules for Prorated Gas Pools as promulgated by Order No. R-1670, as amended, to permit overproduced wells to continue to produce gas during the present severe weather conditions without danger of being shut in for overproduction.

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 16, 1977

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE:
- (1) Consideration of the allowable production of gas for March, 1977, from seventeen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
  - (2) Consideration of the allowable production of gas for March, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
  - (3) Consideration of purchaser's nominations for the one-year period beginning April 1, 1977, for both of the above areas.

CASE 5856: Application of Amoco Production Company for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Elliott Gas Com "F" 1-R Well No. 1A to be drilled 1244 feet from the South line and 820 feet from the East line of Section 33, Township 30 North, Range 9 West, Blanco Mesaverde Pool, San Juan County, New Mexico.

CASE 5857: Application of Union Oil Company of California for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter its Pipeline Deep Unit Federal Well No. 3, the surface location of which is 1980 feet from the North and East lines of Section 7, Township 19 South, Range 34 East, Lea County, New Mexico, and to directionally drill said well in a southerly or easterly direction and complete it in the Morrow formation at a point no closer than 330 feet to the outer boundary of the proration unit, the E/2 of said Section 7.

CASE 5858: Application of Union Oil Company of California for 320-acre spacing, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the adoption of 320-acre spacing and proration units for the North Quail Ridge-Morrow Gas Pool, Lea County, New Mexico. In the absence of objection, the Commission will adopt such 320-acre spacing.

CASE 5859: (This case will be continued and readvertised.)

Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Basin-Dakota and Blanco-Mesaverde production in the wellbore of its Breech D Well No. 307 located in Unit M of Section 13, Township 26 North, Range 7 West, Rio Arriba County, New Mexico.

CASE 5860: Application of Rice Engineering & Operating, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation through the open hole interval from 4176 feet to 5500 feet of its Hobbs SWD Well No. P-16, located in Unit P of Section 16, Township 19 South, Range 38 East, Hobbs Field, Lea County, New Mexico.



Dockets Nos. 9-77 and 10-77 are tentatively set for hearing on March 23 and April 6, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 9, 1977

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- ALLOWABLE:** (1) Consideration of the allowable production of gas for April, 1977, from seventeen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. /
- (2) Consideration of the allowable production of gas for April, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 5863: (Continued & Readvertised)

Application of Amerada Hess Corporation for an unorthodox oil well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Jicarilla Apache "B" Well No. 16, completed as an oil well in the Dakota formation at a point 1850 feet from the South line and 1500 feet from the West line of Section 29, Township 24 North, Range 5 West, Rio Arriba County, New Mexico, said well having been projected as a Basin-Dakota gas well at a standard gas well location for said pool.

CASE 5357: (Continued & Readvertised)

Application of Union Oil Company of California for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter its Pipeline Deep Unit Federal Well No. 3, the surface location of which is 1980 feet from the North and East lines of Section 7, Township 19 South, Range 34 East, Lea County, New Mexico, and to directionally drill said well in a southerly or easterly direction and complete it in the Morrow formation at a point no closer than 330 feet to the outer boundary of the proration unit, the E/2 of said Section 7.

- CASE 5873: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the amendment of Rule 1115 of the Commission Rules and Regulations to provide for the filing of information required on Form C-115, Operator's Monthly Report, in the manner and sequence prescribed by the Commission.

- CASE 5874: Application of Texaco Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower San Andres formation through the perforated interval from 5926 to 5946 feet of its New Mexico "R" State Well No. 5, located in Unit B of Section 2, Township 18 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico.

CASE 5866: (Continued from February 16, 1977, Examiner Hearing)

Application of Union Texas Petroleum for an exception to casing and cementing requirements of Order No. R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing and cementing requirements of Order No. R-111-A to eliminate the salt protection string in a well it proposes to drill in Unit D of Section 33, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers Pool, Lea County, New Mexico.

CASE 5048: (Reopened) (Continued from January 19, 1977, Examiner Hearing)

In the matter of Case 5048 being reopened pursuant to the provisions of Order No. R-4637-A, which order extended the temporary special pool rules for the South Dagger Draw-Upper Pennsylvanian Associated Pool, Eddy County, New Mexico. All interested parties may appear and show cause why said temporary special pool rules should not be rescinded.

CASE 5117: (Reopened) (Continued from February 2, 1977, Examiner Hearing)

In the matter of Case 5117 being reopened pursuant to the provisions of Order No. R-4691-A, which order extended the temporary special pool rules for the North Dagger Draw-Upper Pennsylvanian Pool, Eddy County, New Mexico. All interested parties may appear and show cause why said North Dagger Draw-Upper Pennsylvanian Pool should not be developed on less than 160-acre proration units and why the special depth bracket allowable should be retained.

# sperry-sun



J. A. Fouché  
President

FIELD: Wildcat  
LEASE: Pipeline Deep Unit  
WELL : No. 3

February 7, 1977

Union Oil of California  
P.O. Box 671  
Midland, TX 79701

Gentlemen:

The enclosed film and five folders contains the results of our Gyroscopic Multishot survey job no. SU3-6655, on the Pipeline Deep Unit lease, well no. 3, Wildcat field, in Lea County, New Mexico on February 3, 1977. This survey was from surface to a depth of 12,900 feet.

One of these folders contains the original of the field data sheets, and computation sheets.

The operator on this survey was Bob Cates.  
It has been a pleasure to perform this survey for you.

Very truly yours,

SPERRY-SUN, INC.

Tom Hamlin  
District Manager

TH/jp  
enclosures

UNION OIL OF CALIFORNIA  
 PIPELINE DEEP UNIT WELL NO. 3  
 WILDCAI  
 LEA COUNTY, NEW MEXICO  
 SURVEL GYROSCOPIC SURVEY

PAGE 1  
 DATE OF SURVEY FEBRUARY 3, 1977  
 VERTICAL SECTION DIRECTION CLOSURE  
 SUB-6655

SPERRY-SUN INC.  
 RECORD OF SURVEY

MEASURED DEPTH C	TRUE VERTICAL DEPTH .00	SUB SEA TVD .00	COURSE INCLINATION DEG MIN ORIGIN AT SURFACE	COURSE DIRECTION DEG MIN	DOG-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH .00 N	TOTAL COORDINATES EAST/WEST .00 E	VERTICAL SECTION .00
200	200.00	200.00	0 25	N 33 44 E	.21	.03 N	.72 E	-.72
400	399.99	399.99	0 20	S 07 25 E	.10	.11 S	2.02 E	-2.00
600	599.99	599.99	0 25	S 73 36 E	.05	.54 S	3.25 E	-3.10
800	799.99	799.99	0 20	S 08 45 E	.04	.97 S	4.49 E	-4.30
1000	999.98	999.98	0 25	N 07 5 E	.09	1.17 S	5.73 E	-5.56
1200	1199.98	1199.98	0 15	S 04 4 E	.09	1.20 S	6.95 E	-6.61
1400	1399.93	1399.93	0 15	N 36 40 E	.12	.95 S	7.75 E	-7.64
1600	1599.97	1599.97	0 10	N 59 42 E	.06	.27 S	8.25 E	-8.22
1800	1799.97	1799.97	0 20	N 37 21 E	.10	.12 S	9.13 E	-9.08
2000	1999.97	1999.97	0 25	S 84 46 E	.05	.15 S	10.43 E	-10.30
2200	2199.96	2199.96	0 30	S 93 55 E	.04	.24 S	12.03 E	-11.95
2400	2399.96	2399.96	0 20	S 65 3 E	.12	.57 S	13.45 E	-13.34
2600	2599.95	2599.95	0 25	S 71 10 E	.05	1.00 S	14.66 E	-14.51
2800	2799.95	2799.95	0 30	S 85 13 E	.07	1.33 S	16.23 E	-16.04
3000	2999.93	2999.93	0 50	N 67 33 E	.23	1.02 S	18.53 E	-18.36
3200	3199.91	3199.91	0 50	N 73 25 E	.04	.05 S	21.27 E	-21.18
3400	3399.89	3399.89	0 40	N 70 20 E	.09	.76 N	23.70 E	-23.72
3600	3599.89	3599.89	0 45	N 71 46 E	.04	1.57 N	25.10 E	-25.13
3800	3799.86	3799.86	0 45	N 09 41 E	.01	2.43 N	28.57 E	-28.67
4000	3999.85	3999.85	0 25	N 69 37 E	.17	3.14 N	30.43 E	-30.64
4200	4199.85	4199.85	0 25	N 76 34 E	.03	3.50 N	31.87 E	-32.00
4400	4399.84	4399.84	0 25	N 51 34 E	.09	4.20 N	33.18 E	-33.42
4600	4599.83	4599.83	0 30	N 30 35 E	.09	5.40 N	34.22 E	-34.57
4800	4799.83	4799.83	0 20	N 25 37 E	.09	6.69 N	34.91 E	-35.37
5000	4999.83	4999.83	0 10	N 33 41 E	.06	7.45 N	35.34 E	-35.87
5200	5199.82	5199.82	0 25	N 29 46 E	.13	8.31 N	35.83 E	-36.48
5400	5399.82	5399.82	0 20	N 22 7 E	.05	9.43 N	36.45 E	-37.15
5600	5599.82	5599.82	0 20	N 66 13 E	.13	10.32 N	37.26 E	-38.03
5800	5799.81	5799.81	0 25	N 19 20 E	.15	11.28 N	38.15 E	-39.01

UNION OF CALIFORNIA  
PIPELINE DEEP UNIT WELL NO. 3  
WILDCAT  
LEA COUNTY, NEW MEXICO  
SURVEL GYROSCOPIC SURVEY

PAGE 2  
DATE OF SURVEY FEBRUARY 3, 1977  
VERTICAL SECTION DIRECTION CLOSURE

SU3-6655

SPERRY-SUN INC.  
RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN	0.00-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH	TOTAL COORDINATES EAST/WEST	VERTICAL SECTION
6000	5999.91	5999.91	0 20	N 52 27 E	.11	12.34 N	38.92 E	-39.86
6200	6199.81	6199.81	0 15	N 63 33 E	.09	12.33 N	39.78 E	-40.77
6400	6399.80	6399.80	0 5	N 25 41 E	.10	13.30 N	40.19 E	-41.22
6600	6599.80	6599.80	0 5	N 27 13 W	.04	13.50 N	40.19 E	-41.24
6800	6799.80	6799.80	0 15	N 31 6 W	.08	14.10 N	39.90 E	-41.00
7000	6999.80	6999.80	0 10	N 43 1 W	.05	14.60 N	39.47 E	-40.62
7200	7199.80	7199.80	0 20	N 20 32 W	.10	15.40 N	39.01 E	-40.22
7400	7399.79	7399.79	0 35	N 12 25 W	.13	16.35 N	38.55 E	-39.91
7600	7599.79	7599.79	0 25	N 8 17 W	.09	16.67 N	38.24 E	-39.75
7800	7799.78	7799.78	0 25	N 51 11 W	.15	19.97 N	37.52 E	-39.14
8000	7999.78	7999.78	0 25	N 70 4 W	.07	20.65 N	36.25 E	-37.95
8200	8199.77	8199.77	0 35	N 75 59 W	.09	21.10 N	34.58 E	-36.33
8400	8399.75	8399.75	1 0	S 86 7 W	.24	21.40 N	31.83 E	-33.61
8600	8599.72	8599.72	0 50	S 75 13 W	.12	20.80 N	28.67 E	-30.42
8800	8799.71	8799.71	0 40	S 67 19 W	.10	20.54 N	26.19 E	-27.87
9000	8999.69	8999.69	0 50	S 64 22 W	.09	18.97 N	23.80 E	-25.40
9200	9199.67	9199.67	0 45	S 67 44 W	.05	17.85 N	21.28 E	-22.73
9400	9399.65	9399.65	0 50	S 64 48 W	.05	16.74 N	18.75 E	-20.10
9600	9599.63	9599.63	0 55	S 52 55 W	.10	15.10 N	16.13 E	-17.42
9800	9799.60	9799.60	1 5	S 56 2 W	.09	13.13 N	13.29 E	-14.41
10000	9999.56	9999.56	1 10	S 61 6 W	.06	11.03 N	9.94 E	-12.89
10200	10199.51	10199.51	1 20	S 55 16 W	.10	8.78 N	6.24 E	-6.99
10400	10399.47	10399.47	0 50	S 46 24 W	.26	6.39 N	3.30 E	-3.86
10600	10599.46	10599.46	0 45	S 51 32 W	.11	4.77 N	1.07 E	-1.49
10800	10799.43	10799.43	1 0	S 75 42 W	.10	3.65 N	1.77 W	1.44
11000	10999.40	10999.40	0 55	S 83 49 W	.08	3.05 N	5.07 W	4.77
11200	11199.38	11199.38	1 0	S 84 27 W	.04	2.72 N	8.39 W	8.12
11400	11399.34	11399.34	1 5	S 76 36 W	.08	2.12 N	11.98 W	11.74
11600	11599.30	11599.30	1 10	S 82 50 W	.07	1.42 N	15.84 W	15.65
11800	11799.27	11799.27	0 50	S 81 6 W	.17	.93 N	19.30 W	19.14

UNION OF CALIFORNIA  
PIPELINE DEEP UNIT WELL NO. 3  
WILDCAT  
LEA COUNTY, NEW MEXICO  
SURVEL GYROSCOPIC SURVEY

PAGE 3  
DATE OF SURVEY FEBRUARY 3, 1977  
VERTICAL SECTION DIRECTION CLOSURE

SU3-6655

SPERRY-SUN INC.  
RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN	DOG-LEG SEV DEG/100	TOTAL RECTANGULAR NORTH/SOUTH	COORDINATES EAST/WEST	VERTICAL SECTION
12000	11999.26	11999.26	C 35	S 78 23 W	.13	.49 N	21.73 W	21.60
12100	12099.26	12099.26	C 25	S 74 35 W	.17	.29 N	22.58 W	22.47
12200	12199.25	12199.25	C 20	S 75 51 W	.08	.17 N	23.21 W	23.11
12300	12299.25	12299.25	C 40	S 76 9 W	.30	.09 S	24.06 W	23.97
12400	12399.24	12399.24	1 0	S 68 27 W	.35	.54 S	25.45 W	25.39
12500	12499.22	12499.22	1 0	S 67 41 W	.01	1.19 S	27.07 W	27.06
12600	12599.21	12599.21	C 55	S 77 2 W	.18	1.69 S	28.66 W	28.70
12700	12699.19	12699.19	1 0	S 74 12 W	.10	2.11 S	30.23 W	30.35
12800	12799.16	12799.16	C 50	S 72 49 W	.17	2.56 S	31.81 W	31.92
12900	12899.17	12899.17	C 40	S 72 16 W	.17	2.95 S	33.06 W	33.19

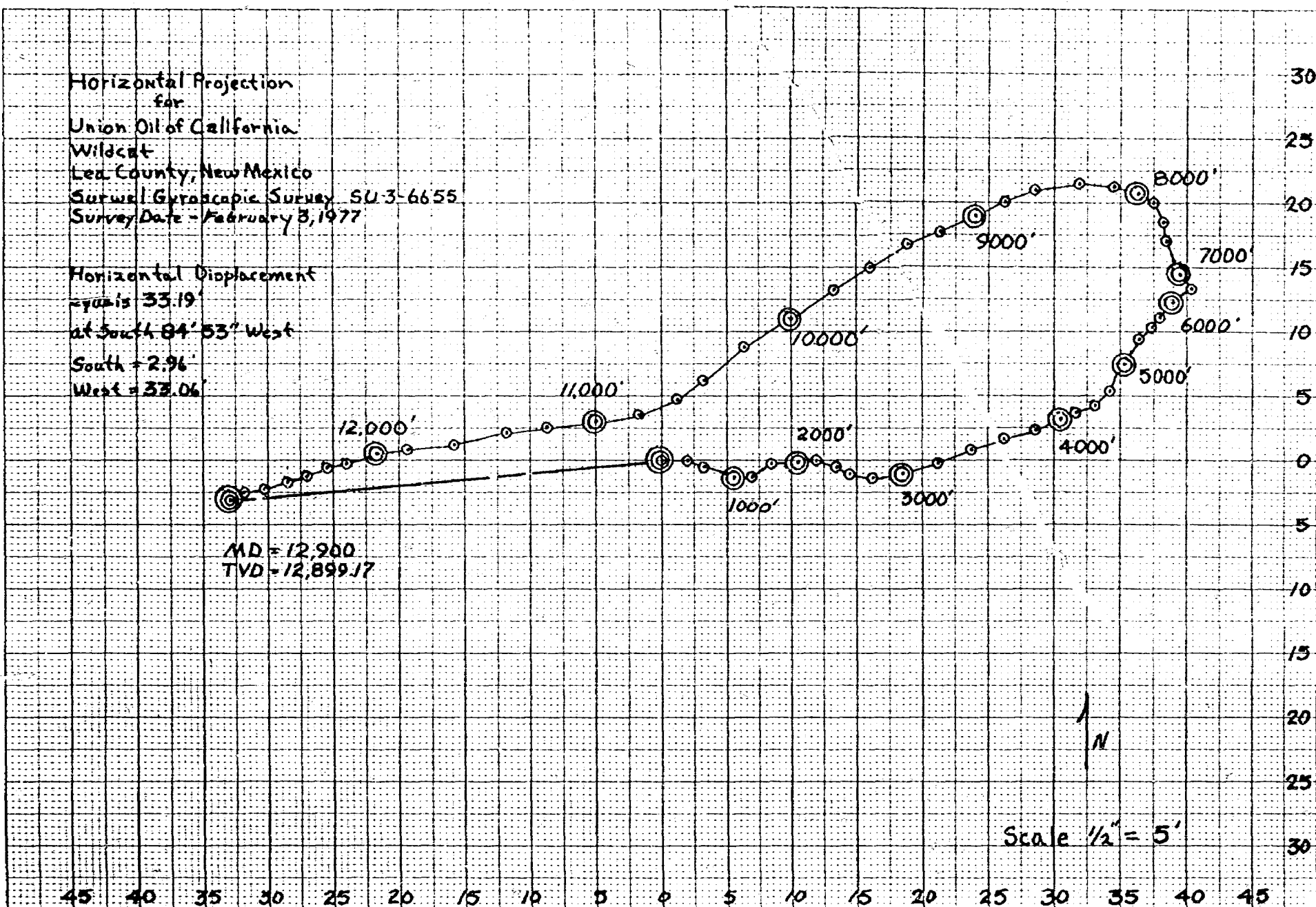
\*\* THE CALCULATIONS ARE BASED ON THE AVERAGE ANGLE METHOD \*\*

HORIZONTAL DISPLACEMENT = 33.19 FEET AT SOUTH 84 DEG. 53 MIN. WEST (TRUE)

Horizontal Projection  
for  
Union Oil of California  
Wildcat  
Lea County, New Mexico  
Surreal Gyroscopic Survey SU-3-6655  
Survey Date - February 3, 1977

Horizontal Displacement  
= 33.19'  
at South 84° 53' West  
South = 2.96'  
West = 33.06'

MD = 12,900  
TVD = 12,899.17



RECEIVED  
JAN 19 1977  
OIL CONSERVATION COMM.  
Santa Fe

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSING

IN THE MATTER OF THE APPLICATION  
OF THE UNION OIL COMPANY OF  
CALIFORNIA TO DEVIATE ITS PIPELINE  
DEEP UNIT FEDERAL NO. 3 WELL LOCATED  
IN SECTION 7, TOWNSHIP 19 SOUTH,  
RANGE 34 EAST, N.M.P.M., LEA COUNTY,  
NEW MEXICO.

No. 5857

A P P L I C A T I O N

Comes now the Union Oil Company of California, by its attorneys, Jasper & Buell, and applies to the Commission for an order allowing it to deviate a Morrow gas well designated as the Pipeline Deep Unit Federal No. 3 and in support of this application states:

1. Applicant is the present operator of the Pipeline Deep Unit Federal No. 3 that is located 1980 feet from the north line and 1980 feet from the east line of Section 7, Township 19 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

2. Said well was originally drilled as the El Paso Mescalero Unit No. 1 and applicant has filed with this Commission an application to re-enter this well designating the well as the Pipeline Deep Unit Federal No. 3.

3. Applicant proposes to re-enter the well and at 12,500 feet directionally drill to a depth of 13,600 feet in the Morrow formation and complete the well at a point approximately 100 feet south of the present down hole location.

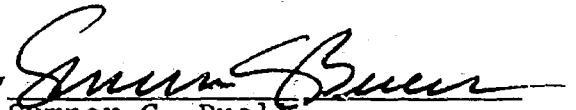
4. Applicant does not know of any other interested parties other than the Commission and its staff.

*need  
more  
definitive  
blue hole  
location  
Jasper*

5. This matter may be set before the Commission or one of its examiners as may be convenient.

6. The granting of this application will prevent waste and protect correlative rights.

JASPER & BUELL

By 

Sumner G. Buell  
Attorney for Applicant  
Post Office Box 1626  
Santa Fe, New Mexico 87501



BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSING

IN THE MATTER OF THE APPLICATION  
OF THE UNION OIL COMPANY OF  
CALIFORNIA TO DEVIATE ITS PIPELINE  
DEEP UNIT FEDERAL NO. 3 WELL LOCATED  
IN SECTION 7, TOWNSHIP 19 SOUTH,  
RANGE 34 EAST, N.M.P.M., LEA COUNTY,  
NEW MEXICO.

No. 5857

A P P L I C A T I O N

Comes now the Union Oil Company of California, by its attorneys, Jasper & Buell, and applies to the Commission for an order allowing it to deviate a Morrow Gas Well designated as the Pipeline Deep Unit Federal No. 3 and in support of this application states:

1. Applicant is the present operator of the Pipeline Deep Unit Federal No. 3 that is located 1980 feet from the north line and 1980 feet from the east line of Section 7, Township 19 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

2. Said well was originally drilled as the El Paso Mescalero Unit No. 1 and applicant has filed with this Commission an application to re-enter this well designating the well as the Pipeline Deep Unit Federal No. 3.


3. Applicant proposes to re-enter the well and at 12,500 feet directionally drill to a depth of 13,600 feet in the Morrow formation and complete the well at a point approximately 100 feet south of the present down hole location.

4. Applicant does not know of any other interested parties other than the Commission and its staff.

5. This matter may be set before the Commission or one of its examiners as may be convenient.

6. The granting of this application will prevent waste and protect correlative rights.

JASPER & BUELL

By   
Sumner G. Buell  
Attorney for Applicant  
Post Office Box 1626  
Santa Fe, New Mexico 87501

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION

IN THE MATTER OF THE APPLICATION  
OF THE UNION OIL COMPANY OF  
CALIFORNIA TO DEVIATE ITS PIPELINE  
DEEP UNIT FEDERAL NO. 3 WELL LOCATED  
IN SECTION 7, TOWNSHIP 19 SOUTH,  
RANGE 34 EAST, N.M.P.M., LEA COUNTY,  
NEW MEXICO.

No. 5857

A P P L I C A T I O N

Comes now the Union Oil Company of California, by its attorneys, Jasper & Buell, and applies to the Commission for an order allowing it to deviate a Morrow gas well designated as the Pipeline Deep Unit Federal No. 3 and in support of this application states:

1. Applicant is the present operator of the Pipeline Deep Unit Federal No. 3 that is located 1980 feet from the north line and 1980 feet from the east line of Section 7, Township 19 South, Range 34 East, N.M.P.M., Lea County, New Mexico.

2. Said well was originally drilled as the El Paso Mescalero Unit No. 1 and applicant has filed with this Commission an application to re-enter this well designating the well as the Pipeline Deep Unit Federal No. 3.

3. Applicant proposes to re-enter the well and at 12,500 feet directionally drill to a depth of 13,600 feet in the Morrow formation and complete the well at a point approximately 100 feet south of the present down hole location.

4. Applicant does not know of any other interested parties other than the Commission and its staff.

5. This matter may be set before the Commission or one of its examiners as may be convenient.

6. The granting of this application will prevent waste and protect correlative rights.

JASPER & BUELL

By

  
Sumner G. Buell

Attorney for Applicant

Post Office Box 1626

Santa Fe, New Mexico 87501

ROUGH

dr/

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5857  
Order No. R- 5390

APPLICATION OF UNION OIL COMPANY  
OF CALIFORNIA FOR DIRECTIONAL  
DRILLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on ~~February 16~~, 1977,  
at Santa Fe, New Mexico, before Examiner ~~Richard L. Stamets~~.

NOW, on this March day of ~~February~~, 1977, the Commission,  
a quorum being present, 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 Commission has jurisdiction of this cause and the  
subject matter thereof.

(2) That the applicant, Union Oil Company, is the owner  
and operator of its Pipeline Deep Unit Federal Well No. 3,  
located 1980 feet from the ~~South~~ North line and 1980 feet from  
the East line of Section 7, Township 19 South, Range 34 East,  
NMPM, Quail Ridge-Morrow Gas Pool, Lea County,  
New Mexico.

(3) That the applicant proposes to re-enter the subject  
well and to directionally drill said well in a southerly or  
easterly direction in such a manner as to bottom it in the  
Morrow ~~in the Morrow~~ <sup>(to within 100 feet of)</sup> formation ~~at~~ a point no closer than  
330 feet to the outer boundary of the proration unit, ~~the E/2~~  
~~of said Section 7.~~

2080 feet from the North line and  
2005 feet from the East line  
~~and~~ of said Section 7 and

(4) That the applicant should be required to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.

(5) That approval of the subject application will prevent the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Oil Company, is hereby authorized to re-enter its Pipeline Deep Unit Federal Well No. 3, the surface location of which is 1980 feet from the North line and 1980 feet from the East line of Section 7, Township 19 South, Range 34 East, NMPM, Quail Ridge Morrow Gas Pool, Lea County, New Mexico, and to directionally drill said well in a southerly or easterly direction in such a manner as to bottom it in the \_\_\_\_\_ Morrow \_\_\_\_\_ formation

See  
under

within 100 feet of a point 2080 feet from  
the North line and 2005 feet from  
the East line of said Section 7 and

conducting a continuous multi-shot  
directional survey of the well.

PROVIDED FURTHER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the whipstock point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe Office of the Commission, Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Commission's Hobbs District Office of the date and time said survey is to be commenced.

-3-

Case No. 5857

Order No. R-

(2) That Form C-105 shall be filed in accordance with Commission Rule 1105 and the operator shall indicate thereon true vertical depths in addition to measured depths.

(3) That the E/2 of said Section 7 shall be dedicated to the subject well.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.