

CASE 4586: Application of MOBIL  
OIL CORPORATION FOR AN UNORTHODOX  
OIL WELL LOCATION, LEA COUNTY.

4586

Application  
Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

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

Examiner Hearing  
September 1, 1971

-----)  
)  
IN THE MATTER OF: )

)  
Application of Mobil Oil )  
Corporation for an unorthodox )  
oil well location, Lea )  
County, New Mexico. )  
-----)

Case No. 4586

BEFORE: ELVIS A. UTZ, EXAMINER

TRANSCRIPT OF HEARING

1 MR. UTZ: Case 4586.

2 MR. HATCH: Case 4586. Application of Mobil Oil  
3 Corporation for an unorthodox oil well location, Lea County,  
4 New Mexico.

5 MR. EK: I am Dale Ek. I will enter an appearance  
6 on behalf of the applicant, Mobil Oil Corporation.

7 MR. UTZ: Are there other appearances?

8 MR. SEARY: John Seary with Mobil Oil.

9 MR. UTZ: Okay. Do you want to come forward and  
10 put your case on?

11 (Witness sworn)

12 JOHN SEARY  
13 having been first duly sworn, according to law, upon his oath  
14 testified as follows:

15 DIRECT EXAMINATION

16 BY MR. EK:

17 Q Would you state your name, please?

18 A J. H. Seary, employed --

19 Q By whom are you employed?

20 A By Mobil Oil Corporation, Midland Division Office.

21 Q What is your position with Mobil Oil Corporation, Mr.  
22 Seary?

23 A I am associate engineer in the proration group.

24 Q How long have you been so employed?

25 A For seventeen years.

1 Q Have you qualified as an expert before this commission on  
2 previous occasions?

3 A Yes, I have.

4 Q And are your qualifications contained in records of other  
5 commission hearings?

6 A Yes, they are.

7 MR. UTZ: He is qualified.

8 MR. EK: Thank you.

9 Q (Mr. Ek continuing) It is my understanding, Mr. Seary,  
10 the purpose of Mobil's application is to obtain approval  
11 from the commission for drilling an infill production  
12 well within the Humphrey Queen Unit in an unorthodox  
13 location; is that correct?

14 A Yes, sir.

15 Q What is the number of the proposed well?

16 A The proposed well is No. 28.

17 Q And where is the proposed location of the well within  
18 the Humphrey Queen Unit?

19 A The proposed well 28 is in unit J, 2450 feet from the East  
20 line and 1325 feet from the South line of Section 3,  
21 Township 25 South, Range 37 East, Lea County, New Mexico.

22 Q And what is this proposed location, unorthodox location?

23 A It is an unorthodox location, because it is closer than  
24 330 to the south and west lines of unit J of that Section.

25 Q And I hand you what has been marked Mobil's Exhibit No. 1

1 and ask you to identify it, please.

2 A Exhibit 1 is a plat of the unit area showing the location  
3 of the proposed well 28.

4 Q What is the purpose to be served by well No. 28 in the  
5 position, the unorthodox location?

6 A Mobil is operator of the Humphrey Queen Unit water flood  
7 as authorized by the commission order No. R3426 dated  
8 June 5, 1969.

9 Injection began in this water flood in November of  
10 1969. Mobil feels that the proposed infill producing  
11 well is necessary to recover oil from a trap area formed  
12 by producing wells No. 16, 21, 22 and 24.

13 Q I hand you what has been marked Mobil's Exhibit No. 2 and  
14 ask you to identify it, please.

15 A Exhibit 2 shows a five spot pattern of concern in this  
16 application. It also shows the area calculated to be  
17 swept by the existing water flood as shown in blue.

18 This calculation further shows in the red shaded area  
19 the estimated trap area where recovery of oil will not  
20 occur unless the proposed well 28 is drilled.

21 That comparison shows that the Humphrey Queen Unit 28  
22 Well is necessary to prevent the loss of an estimated  
23 85,000 barrels of water flood oil.

24 The current producing well in the five spot well  
25 No. 16 is responding very poorly to the water flood, four

1 barrels of oil per day and twenty-three barrels of water  
2 per day, and it is estimated that the addition of the  
3 proposed well 28 as a producing well to this pattern at  
4 the proposed location will add approximately sixty acres  
5 of productive acreage to the water flood pattern.

6 Q Are there any other producers in the area of this proposed  
7 unorthodox location which might possibly be affected by  
8 production from such a well?

9 A Gulf is the offset operator to the south.

10 Q I hand you what has been marked Mobil's Exhibit No. 6 and  
11 ask you to identify it, please.

12 A Exhibit 6 is Gulf's signed waiver showing that Gulf as an  
13 offset operator has no objection to the commission granting  
14 Mobil an unorthodox location.

15 Q I also hand you what has been marked Mobil's Exhibits 3,  
16 4 and 5 and ask you to identify them, please.

17 A Exhibit 3 is a tabulation of the oil production from the  
18 Humphrey Queen Unit from the time of the formation of the  
19 unit until July of 1971.

20 Exhibit 4 is a copy of the C102 of the proposed well  
21 28, Exhibit 5 is a copy of the C101 of the proposed well  
22 28.

23 MR. EK: We would at this time move the admission of  
24 Mobil's Exhibits 1 through 6.

25 MR. UTZ: Without objection, Mobil's Exhibits 1 through

1 6 will be entered into the record of this case.

2 MR. UTZ: Are there questions of the witness?

3 CROSS-EXAMINATION

4 BY MR. UTZ:

5 Q Mr. Seary, what would cause this so-called trap in between  
6 these producing wells?

7 A We estimate that the sixty wells will water out before  
8 the area to the south is swept. There tends to be an  
9 east-west trend in the preferential trend in the injection,  
10 and we have very little success in getting injection up  
11 from the south, say, from injection well 23 towards 16.

12 We feel it will water out 22 and 24, in this area  
13 where the proposed 28 well is, we feel it will not be  
14 swept or produced.

15 Q Well, it is just an area where you have no injection and  
16 no production either?

17 A Yes, sir.

18 Q It isn't necessarily a geological feature, it is just a  
19 dead area, so to speak, right?

20 A True.

21 MR. UTZ: Other questions? Case will be taken under  
22 advisement. Statements in the case? Case will now be taken  
23 under advisement.

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I N D E X

WITNESS

PAGE

JOHN SEARY

Direct Examination by Mr. Ek

2

Cross-Examination by Mr. Utz

6

Certified by  
*[Signature]*  
Examiner

dearnley-meier reporting service

1 STATE OF NEW MEXICO )  
2 )  
3 COUNTY OF BERNALILLO )

4 I, LINDA MALONE, Court Reporter, do hereby certify that  
5 the foregoing and attached Transcript of Hearing before the  
6 New Mexico Oil Conservation Commission was reported by me;  
7 that the same is a true and correct record of the said  
8 proceedings, to the best of my knowledge, skill and ability.  
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*Linda Malone*  
Court Reporter



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. 4586  
Order No. R-4190

APPLICATION OF MOBIL OIL  
CORPORATION FOR AN UNORTHODOX  
OIL WELL LOCATION, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 1, 1971, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 8th day of September, 1971, 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, Mobil Oil Corporation, is the operator of the Mobil Langlie Mattix Humphrey Waterflood Project in the Langlie-Mattix Pool, Lea County, New Mexico.
- (3) That the applicant seeks authority to drill an oil well as an infill well in said waterflood project at an unorthodox location 1325 feet from the South line and 2450 feet from the East line of Section 3, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.
- (4) That approval of the proposed location should increase the efficiency of the Mobil Langlie Mattix Humphrey Waterflood Project and result in greater ultimate recovery of oil, thereby preventing waste.

-2-

CASE NO. 4586  
Order No. R-4190

(5) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the pool, and will otherwise prevent waste and protect correlative rights.

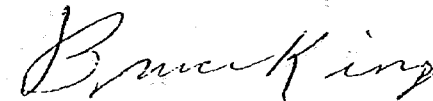
IT IS THEREFORE ORDERED:

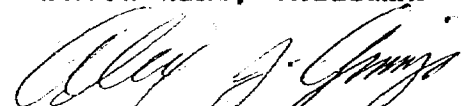
(1) That the applicant, Mobil Oil Corporation, is hereby authorized to drill an oil well as an infill well in its Mobil Langlie Mattix Humphrey Waterflood Project, Langlie-Mattix Pool, Lea County, New Mexico, at an unorthodox location 1325 feet from the South line and 2450 feet from the East line of Section 3, Township 25 South, Range 37 East, NMPM.

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

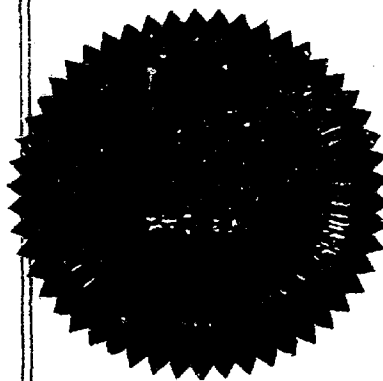
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
BRUCE KING, Chairman

  
ALEX J. ARMIGO, Member

  
A. L. PORTER, Jr., Member & Secretary



S E A L

dr/

Case 4586

Heard 9-1-71

Rec. 9-2-71

Sargent Webb the NSL requested  
in the Humphrey Dunes Unit!

The Humphrey Dunes Unit #28 to  
be located N. 1325151 2450/E of sec.

(8) 3-2537. The purpose the well  
is to drain a deep spot in  
the waterflood unit.

Mike B. B.

Docket No. 19-71

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 1, 1971

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  
Elvis A. Utz, Alternate Examiner:

CASE 4558: (Continued from the July 28, 1971, Examiner Hearing)  
Application of Midwest Oil Corporation for a unit agreement,  
Lea County, New Mexico. Applicant, in the above-styled  
cause, seeks approval of the Little Inbe (Bough "C") Unit  
Area comprising 2,240 acres, more or less, of state lands  
in Sections 10, 11, 14 and 15 of Township 10 South, Range  
33 East, Inbe Permo-Pennsylvanian Pool, Lea County, New  
Mexico.

CASE 4559: (Continued from the July 28, 1971, Examiner Hearing)  
Application of Midwest Oil Corporation for a waterflood  
project, Lea County, New Mexico. Applicant, in the  
above-styled cause, seeks authority to institute a water-  
flood project in its Little Inbe (Bough "C") Unit Area,  
Inbe Permo-Pennsylvanian Pool, Lea County, New Mexico,  
by the injection of water through three wells located in  
Sections 11 and 14 of Township 10 South, Range 33 East,  
Lea County, New Mexico.

CASE 4586: Application of Mobil Oil Corporation for an unorthodox  
oil well location, Lea County, New Mexico. Applicant,  
in the above-styled cause, seeks authority to drill an  
oil well as an infill well in its Humphrey Queen Unit  
Area at an unorthodox location 1325 feet from the South  
line and 2450 feet from the East line of Section 3, Township  
25 South, Range 37 East, Langlie-Mattix Pool, Lea County,  
New Mexico.

CASE 4574: (Continued from the July 28, 1971 Examiner Hearing)  
In the matter of the hearing called by the Oil Conservation  
Commission on its own motion to permit Tenneco Oil Company  
to appear and show cause why it should not take immediate  
action to repair the production casing in its Bolack "B"  
Well No. 5 located in Unit J of Section 31, Township 27  
North, Range 8 West, Basin-Dakota Pool, San Juan County,  
New Mexico.

CASE 4584: Application of Tenneco Oil Company for gas injection,  
McKinley County, New Mexico. Applicant, in the above-  
styled cause, seeks authority to inject casinghead gas

Examiner Hearing  
September 1, 1971  
-2-

Docket No. 19-71

produced by certain wells located in the Lone Pine-Dakota "D" Pool, McKinley County, New Mexico, into the Dakota "A" zone through perforations from 2547 feet to 2562 feet in its Santa Fe Pacific Railroad Well No. 2 located in the NW/4 SW/4 of Section 13, Township 17 North, Range 9 West, South Hospah Field. The gas is to be injected for storage purposes awaiting the institution of a pressure maintenance project in the Lone Pine-Dakota "D" Pool.

CASE 4539: (Continued from the August 18, 1971 Examiner Hearing)  
In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Doanbuy Lease & Company, Inc., and all other interested persons to appear and show cause why its following described wells in Section 27, Township 14 South, Range 33 East, Saunders Pool, Lea County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 4587: Application of Wolfson Oil Company for a non-standard gas proration unit, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the W/2 NE/4 and E/2 NW/4 of Section 12, Township 15 South, Range 29 East, Double L-Queen Associated Pool, Chaves County, New Mexico, to be dedicated to its Amerada "C" Federal Well No. 1 located 330 feet from the North line and 1650 feet from the East line of said Section 12.

CASE 4585: Application of Pennzoil United, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104 of the Commission Rules and Regulations to permit the drilling of a well at an unorthodox gas well location 1980 feet from the South line and 990 feet from the West line of Section 6, Township 23 South, Range 27 East, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico, the S/2 of said Section 6 to be dedicated to the well.



J. R. MODRALL  
JAMES E. SPERLING  
JOSEPH E. ROEHL  
GEORGE T. HARRIS, JR.  
DANIEL A. SISK  
LELAND S. SEDBERRY, JR.  
ALLEN C. DEWEY, JR.  
FRANK H. ALLEN, JR.  
JAMES P. SAUNDERS, JR.  
JAMES A. PARKER  
JOHN R. COONEY

KENNETH L. HARRIGAN  
PETER J. ADAMS  
DALE W. EK  
CAMERON R. GRAHAM  
DENNIS J. FALK  
FARRELL L. LINES

LAW OFFICES OF  
**MODRALL, SPERLING, ROEHL, HARRIS & SISK**  
PUBLIC SERVICE BUILDING  
P. O. BOX 2168  
ALBUQUERQUE, NEW MEXICO 87103

JOHN F. SIMMS (1885-1954)  
AUGUSTUS T. SEYMOUR  
(1907-1965)

TELEPHONE 243-4511  
AREA CODE 505

August 17, 1971

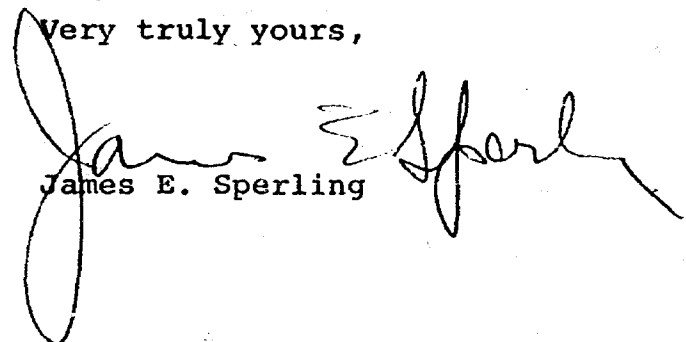
*Case 4586*

Mr. A. L. Porter, Jr.  
Secretary-Director  
New Mexico Oil Conservation Commission  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Dear Mr. Porter:

Enclosed herewith is the Application of Mobil Oil Corporation for an infill producing well in the Humphrey Queen Waterflood Unit. I understand that the Application has been scheduled for advertisement and appearance on the September 1 docket.

Very truly yours,

  
James E. Sperling

JES:cj  
Enclosure

DOCKET MAILED  
Date 8-19-71

BEFORE THE OIL CONSERVATION COMMISSION

OF THE STATE OF NEW MEXICO

**RECEIVED**  
AUG 16 1971  
OIL CONSERVATION COMM

IN THE MATTER OF THE APPLICATION  
OF MOBIL OIL CORPORATION FOR  
APPROVAL OF AN UNORTHODOX WELL  
LOCATION WITHIN THE HUMPHREY  
QUEEN UNIT IN SECTION 3,  
TOWNSHIP 25 SOUTH, RANGE 37  
EAST, LEA COUNTY, NEW MEXICO.

Case No. 4586

APPLICATION

1. Applicant, Mobil Oil Corporation, hereby makes application for approval of the drilling of a well for the production of oil at a location in Unit J, 2,450 feet from the East line and 1,325 feet from the South line of Section 3, Township 25 South, Range 37 East, N.M.P.M.

2. Applicant is the operator of the Humphrey Queen Unit, the same being a waterflood project heretofore approved by this Commission for the production of oil by secondary recovery methods from the Queen Formation underlying the proposed location.

3. The proposed well is an infill and the approval of the proposed location should increase the efficiency of the Humphrey Queen Unit Waterflood Project within the Langlie-Mattix pool and result in greater ultimate recovery of oil thereby preventing waste.

4. Attached to this application is copy of Form C-101 and C-102 prescribed by this Commission.

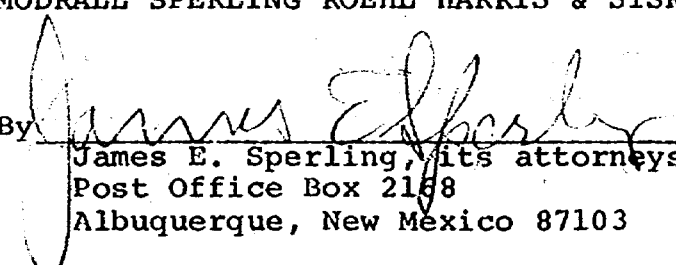
WHEREFORE, Applicant requests that this application be set for hearing before an Examiner at the scheduled Examiner hearing on September 1, 1971.

Respectfully submitted,

MOBIL OIL CORPORATION

By: MODRALL SPERLING ROEHL HARRIS & SISK

By:

  
James E. Sperling, its attorneys  
Post Office Box 2168  
Albuquerque, New Mexico 87103



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

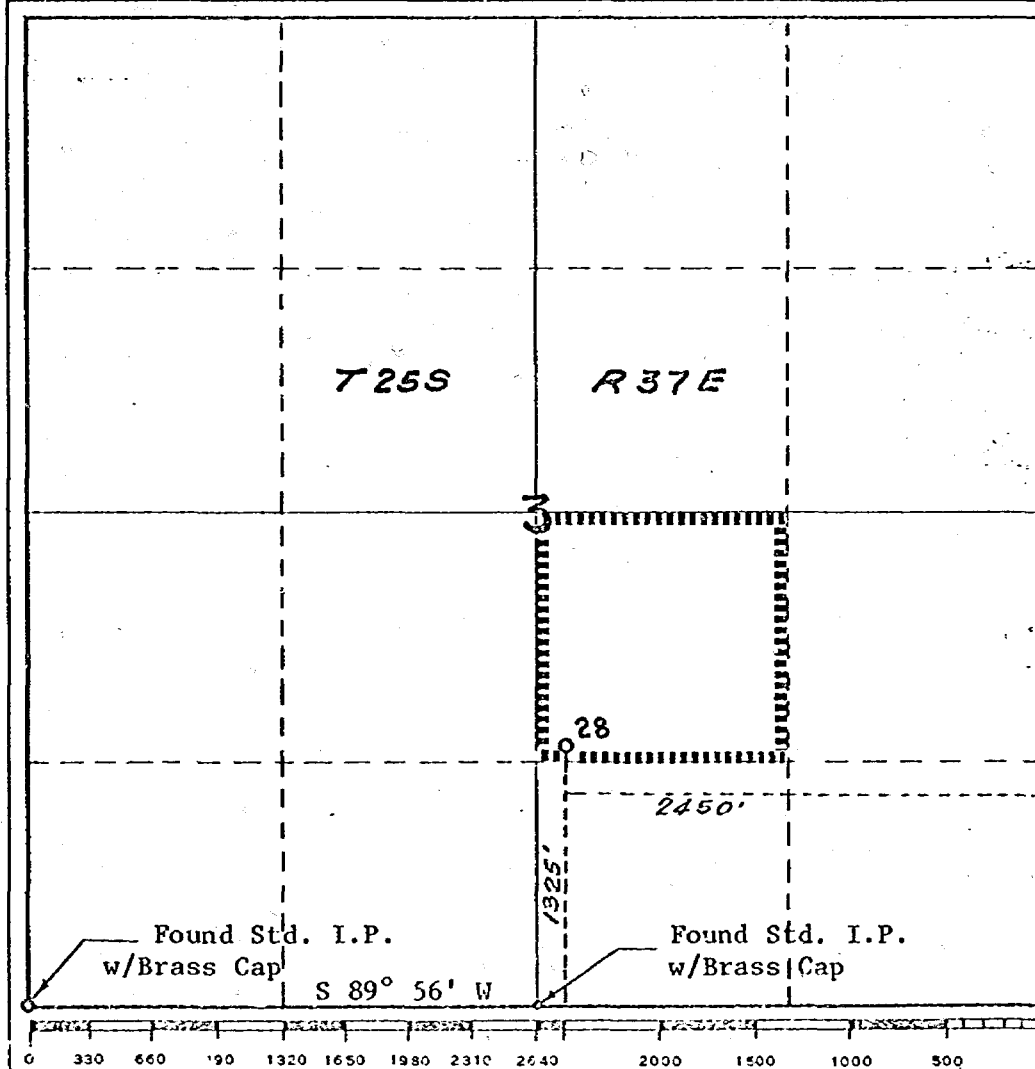
Operator <b>Mobil Oil Corporation</b>			Lease <b>Humphrey Queen Unit</b>		Well No. <b>28</b>
Unit Letter <b>J</b>	Section <b>3</b>	Township <b>25S</b>	Range <b>37E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>2450</b> feet from the <b>East</b> line and <b>1325</b> feet from the <b>South</b> line					
Ground Level Elev: <b>3134.4</b>	Producing Formation <b>Queen</b>		Pool <b>Langlie-Mattix</b>		Dedicated Acreage: <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*A. D. Bond*

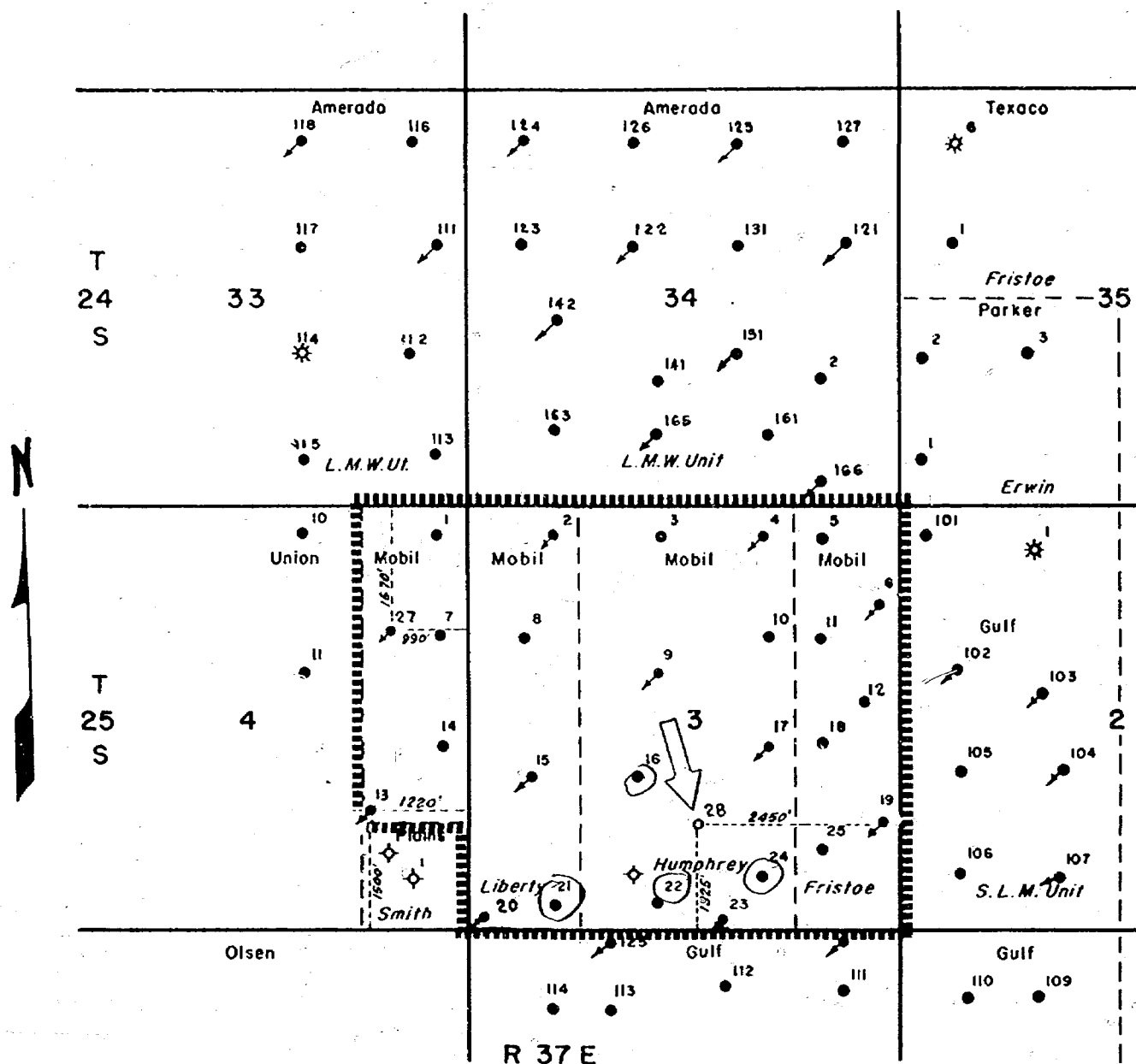
Name  
**A. D. Bond**  
Position  
**Proration Staff Assistant**  
Company  
**Mobil Oil Corporation**  
Date  
**August 12, 1971**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**August 10, 1971**  
Registered Professional Engineer and/or Land Surveyor

**W. D. Gill** *W. D. Gill*

Certificate No.  
**1415**



Reserve \_\_\_\_\_ Permit depth \_\_\_\_\_

Special Instructions \_\_\_\_\_

Date work is commenced \_\_\_\_\_, 19\_\_\_\_ Supt. \_\_\_\_\_

Location approved by \_\_\_\_\_ Plat by \_\_\_\_\_ Surveyed by \_\_\_\_\_

THE STATE OF TEXAS  
COUNTY OF MIDLAND

I hereby certify that this plat truly represents conditions as they actually exist on this lease; that said plat which is drawn to the scale indicated hereon, is to the best of my knowledge true and correct; that it accurately shows said lease with all wells on same; that number and locations of said wells are as indicated hereon; and that this plat correctly reflects all pertinent and required data.

### Mobil Oil Corporation

EXPLORATION & PRODUCING DEPARTMENT  
MIDLAND DIVISION MIDLAND, TEXAS

LEASE HUMPHREY QUEEN UNIT  
WELL NO. \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_\_\_  
DIVISION \_\_\_\_\_ LEASE NO. NM \_\_\_\_\_  
TOTAL ACRES IN LEASE 761.25 ACRES COVERED BY PLAT 761.25  
DESCRIPTION All of Sec. 3, E/2 NE/4 & NE/4 SE/4 Sec. 4,  
T 25 S, R 37 E

Leo County, New Mexico

DRAWN T. Roy DATE \_\_\_\_\_ FIELD Longlie-Mottix  
SCALE 1" = 2000' FILE NO. 63

MOBIL OIL CORPORATION  
TABULATION OF OIL PRODUCTION  
HUMPHREY QUEEN UNIT  
LEA COUNTY, NEW MEXICO

<u>YEAR</u>	<u>OIL PRODUCTION BBLs</u>	<u>CUMULATIVE OIL BBLs</u>	<u>NO. OF PROD. WELLS</u>
Previous to Unitization 1969		1,577,700	
Oct.	471	1,578,171	13
Nov.	445	1,578,616	13
Dec.	542	1,579,158	13
1970			
Jan.	641	1,579,799	13
Feb.	621	1,580,420	13
Mar.	859	1,581,279	14
Apr.	1088	1,582,367	14
May	623	1,582,990	14
June	940	1,583,930	14
July	1561	1,585,491	15
Aug.	1943	1,587,434	15
Sept.	1999	1,589,433	15
Oct.	2332	1,591,765	15
Nov.	2194	1,593,959	15
Dec.	2750	1,596,709	15
1971			
Jan.	2356	1,599,065	15
Feb.	3178	1,602,233	15
Mar.	4288	1,606,521	15
Apr.	4147	1,610,668	15
May	4282	1,614,950	15
June	4494	1,619,444	15

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

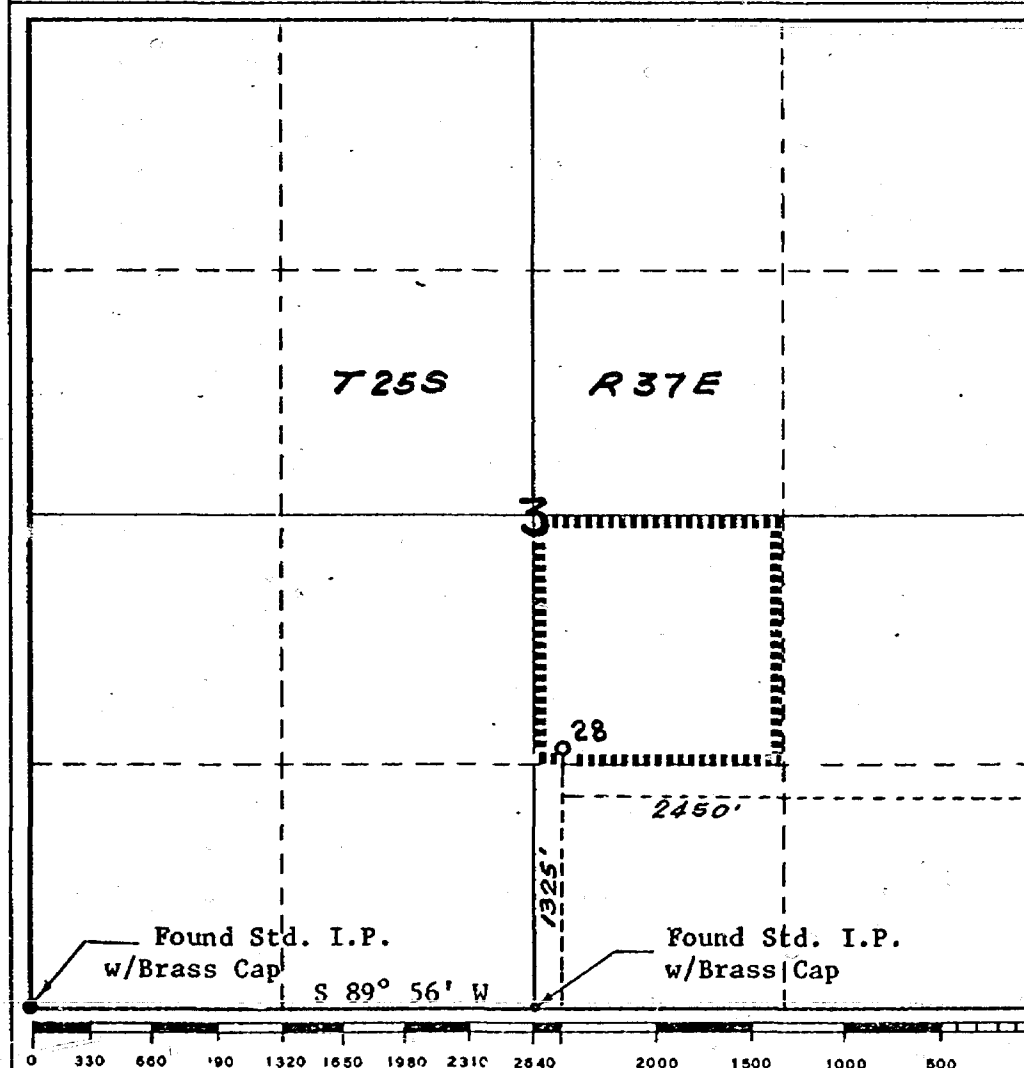
Operator <b>Mobil Oil Corporation</b>			Lease <b>Humphrey Queen Unit</b>		Well No. <b>28</b>
Unit Letter <b>J</b>	Section <b>3</b>	Township <b>25S</b>	Range <b>37E</b>	County <b>Lea</b>	
Actual Footage Location of Well:					
<b>2450</b> feet from the <b>East</b> line and		<b>1325</b> feet from the <b>South</b> line			
Ground Level Elev: <b>3134.4</b>	Producing Formation <b>Queen</b>	Pool <b>Langlie-Mattix</b>	Dedicated Acreage: <b>40</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*A. D. Bond*  
Name

A. D. Bond

Position

Proration Staff Assistant

Company

Mobil Oil Corporation

Date

August 12, 1971

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

August 10, 1971

Registered Professional Engineer and/or Land Surveyor

W. D. Gill

Certificate No.

1415

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SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

5A. Indicate Type of Lease
STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.
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## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		Humphrey Queen Unit	
2. Name of Operator		8. Farm or Lease Name	
Mobil Oil Corporation		Langlie-Mattix	
3. Address of Operator		9. Well No.	
P. O. Box 633, Midland, Texas, 79701		28	
4. Location of Well		10. Field and Pool, or Wildcat	
UNIT LETTER J LOCATED 2450 FEET FROM THE East LINE		Langlie-Mattix	
AND 1325 FEET FROM THE South LINE OF SEC. 3 TWP. 25S RGE. 37E NMPM		12. County	
		Lea	
19. Proposed Depth		19A. Formation	20. Rotary or C.T.
3600		Queen	Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
Ground - 3134.4	On File	Unknown	Sept. 15, 1971

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8	20#	1200	Circulate	Surface
7 7/8"	5 1/2	14#	3600	"	1100'

## Mud Program

0 - 1200 - Spud Mud  
1200 - T.D. - Brine water, Flosal & Oil as needed

## Logging Program

Surface - T.D. - Formation density log  
GR. Collar

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed A. D. Bond A. D. Bond Title Proration Staff Assistant Date August 12, 1971

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



# Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT  
MIDLAND DISTRICT

August 25, 1971

P. O. Drawer 1150  
Midland, Texas 79701

W. B. Hopkins  
DISTRICT MANAGER  
J. A. Hord  
DISTRICT EXPLORATION  
MANAGER  
J. L. Pike  
DISTRICT PRODUCTION  
MANAGER  
H. E. Braunig, Jr.  
DISTRICT PRODUCTION  
MANAGER  
M. B. Moseley  
DISTRICT SERVICES MANAGER

New Mexico Oil Conservation Commission  
State Land Office Building  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Mobil Oil Corporation has made application for permission to drill their Humphrey Queen Unit Well No. 28, Langlie-Mattix Queen Pool, at an unorthodox location. We hereby waive any objection to the granting of this application for the above well, located:

In Unit J, 1325 feet from the South  
line and 2450 feet from the East  
line of Section 3, T-25-S, R-37-E,  
Lea County, New Mexico.

Executed this 25th day of August, 1971.

Yours very truly,

GULF OIL CORPORATION

By: W. C. Palmer  
W. C. PALMER  
District Engineer



A DIVISION OF GULF OIL CORPORATION

Bond

Unorthodox - oil well -

28

Hampden Green Unit  
Sec. J -

2450 FFL 1325 FSL

Sec 3 - 25 South 37 East

Longbe Mathis Pool

See County -

- infill -