

Case Number

4309

Application

Transcripts.

Small Exhibits

ETC.

dearnley-meier

1170 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO

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

1170 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
February 25, 1970

EXAMINER HEARING

-----  
IN THE MATTER OF: )

Application of Mobil Oil Corporation )  
for an amendment of Order No. R-3824, )  
Lea County, New Mexico. )

-----

Case No. 4309

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: Case 4309.

MR. HATCH: Case 4309. Application of Mobil Oil Corporation for an amendment of Order No. R-3842, Lea County, New Mexico.

MR. SPERLING: J. E. Sperling of Modrall, Seymour, Sperling, Roehl and Harris, Albuquerque, appearing for the Applicant. We have one witness.

(Witness sworn).

(Whereupon, Applicant's Exhibits 1 through 6 were marked for identification).

MR. UTZ: Other appearances in this case? You may proceed.

C. R. KREUZ

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

DIRECT EXAMINATION

BY MR. SPERLING:

Q Please state your name, your place of residence, by whom you are employed and in what capacity.

A My name is C. R. Kreuz; live in Midland, Texas; employed by Mobil Oil Corporation as senior production engineer.

Q Have you, on any previous occasion, Mr. Kreuz,

testified before the Commission so that your qualifications are a matter of record?

A Yes, sir, I have.

MR. SPERLING: Are the witness' qualifications acceptable, Mr. Examiner?

MR. UTZ: Yes, sir, they are.

Q (By Mr. Sperling) Mr. Kreuz, would you explain Mobil's purpose in filing this particular application?

A Mobil is seeking an amendment to Order No. R-3824 to permit the drilling and injecting into its Humphrey Queen Unit Well Number 13, which is located 1500 feet from the south line and 1220 feet from the east line of Section 4, T 25 south, R 37 East, Lea County, New Mexico.

Q Now, would you please refer to what has been marked as Exhibit One and indicate what information is shown on that exhibit?

A Yes, sir. Exhibit One is a copy of a county map showing the Humphrey Queen Unit and primarily the purpose for submitting this exhibit is to show the relationship between the Humphrey Queen Unit and surrounding units where water-flood operations are being conducted.

Q Also shows all leases within the two-mile radius of the subject application?

A Yes, sir. That's correct.

Q Now, would you identify and explain Exhibit Number Two, please?

A Exhibit Number Two is a map of the Humphrey Queen Unit which was submitted at an August 27, 1969 Examiner Hearing, Case Number 4204, which was called to consider Mobil's application for a waterflood project in the Humphrey Queen Unit and Mobil was authorized by Order No. R-3824 to institute a waterflood project by injecting water into the Queen Formation through injection wells shown on Exhibit Number Two.

Q Now, refer to Exhibit Three and explain it, please.

A Exhibit Three is a map of the Humphrey Queen Unit and is similar to Exhibit Number Two. The only difference is that Exhibit Number Three shows a new injection well, Unit Well Number 27 and a revised location for Unit Well Number 13, which is -- has a red circle around it and both Number 13 and 27 are injection wells to be drilled.

The Unit Well Number 27 is located in Unit "H", 1570 foot from the north line and 990 feet from the east line of Section 4, T 25 South, R 37 East. Well Number 27 is located in Unit Tract Number 5.

Mobil sought and obtained authority under an

administrative Order No. WFX 328 to inject into Well Number 27 in lieu of Well Number 7, a producing well, which was to be converted and which was approved in the original waterflood order.

The Well Number 7 is located immediately east of Number 27. Substitution of Well Number 27 for Well Number 7 was based on a revised sand thickness estimate in the areas around Wells Number 7 and 27.

The additional sand thickness discovered during clean out operations of Well Number 27 justified the drilling of a new injection well, Well Number 27. We estimate that -- I estimate that drilling will start on Well Number 27 today.

They were moving the rig in Monday and Tuesday and if they didn't start drilling yesterday, it's quite likely that they will start drilling on Well Number 27 today and the proposed location of Number 13, which is located in Unit Tract 6 shown on Exhibit Three, is Unit "I", 1220 feet from the east line and 1500 feet from the south line of Section 4, T 25 South, Range 37 East.

This proposed location is a 1022 feet south of the original proposed location. The original proposed location was located 2,522 feet from the south line and 1220 feet from the east line of Section 4.

The proposed location of Number 13, as I have circled in red on Exhibit Number Three, is 102 feet from the west line and 178.75 feet from the south line of the unit boundary. It is our opinion that the location of Well Number 13, as shown on Exhibit Three, is necessary to provide for a more thorough sweep of the unit area.

Considering the location of Number 27, injecting into Well Number 13 at the original location will result in a congestion of injection wells in that area and will result in a loss of otherwise recoverable hydrocarbons and it should be noted here that Well Number 13 at its revised location is further away from offset production than at its original location.

Therefore, correlative rights should not be impaired by this new location.

Q Now, please refer to Exhibit Four.

A Exhibit Four is a copy of a well bore sketch of Well Number 13 and shows how we propose to complete this well and this is the same exhibit that was submitted at the original waterflood hearing.

Q The completion procedure will be the same as that previously proposed and approved?

A Yes, sir. That's correct.

Q Now, refer to Exhibit Five, please.

A Exhibit Five is a copy of Commission Form C101 which we submitted with our application and which has been submitted also to the Commission's District Office in Hobbs.

Q Refer to Exhibit Six, please.

A Exhibit Six is a copy of Commission Form C102 which we also have submitted with our application and to the Commission's District Office in Hobbs.

Q Did you make any attempt to notify offset operators in the immediate area of the proposed well?

A Yes, sir, we did. On February the 2nd, 1970, we submitted a letter of application to the Commission in regard to the proposed new location of Well Number 13 and we sent a copy of that letter with the attendant forms attached to that letter to all offset operators in the immediate vicinity, as near as we could determine.

There is some question as to who actually owns some of this acreage immediately west of the unit -- south and west of the unit because there is no production there.

Q Do you have anything further?

A No, sir.

MR. SPERLING: That's all we have, Mr. Examiner.

MR. UTZ: The witness sounded like he was through.



MR. SPERLING: Sounded pretty final.

CROSS EXAMINATION

BY MR. UTZ:

Q Would you give me the location of Number 27 again, please?

A Number 27 is located in Unit "H", 1570 feet from the north line and 990 feet from the east line of Section 4.

Q Okay. Now, just to reiterate your completion so it will be a matter of this record, also the tubing is going to be plastic lined or is this plain tubing?

A No, sir, it will be either plastic lined or cement lined. Cement lined, to the best of my recollection, is how we are equipping our wells in this area, in this unit, with cement lined tubing.

Q The annulus will have --

A Treated water.

Q -- fluid in it, treated water. Are you going to use a gauge at the surface or are you using gauges?

A Yes, sir. We will comply with the original water-flood order in this case and equip the casing annulus with a pressure gauge.

Q What type of water are you injecting into this, salt water, fresh water or what?

A Produced water and I will have to check my records. We have drilled some water supply wells in this area and I need to check my records to find out where we did take these wells to, if I can find them.

Q The produced water is salty?

A Yes, sir. The water supply wells is brackish water, also. I don't recall what formation it is coming from.

Q I don't think it's too pertinent to this case, Mr. Kreuz. The main thing I wanted to know whether it was salt water or fresh water.

A Yes, sir, it's salt.

MR. UTZ: Are there other questions of the witness? The witness may be excused.

(Witness excused).

MR. UTZ: Statements? The case will be taken under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
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E X H I B I T S

Applicant's 1 through 6	2
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STATE OF NEW MEXICO )  
 ) ss  
 COUNTY OF BERNALILLO )

I, GLENDA BURKS, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Glenda Burks  
 Notary Public

My Commission Expires:

March 12, 1973

I do hereby certify that the foregoing is a complete record of the hearing in the Examiner-hearing of No. 4309 heard by me on Feb 28, 1972.  
Ernest A. [Signature] Examiner  
 New Mexico Oil Conservation Commission



# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87801

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

March 2, 1970

Mr. James E. Sperling  
Modrall, Seymour, Sperling, Roehl &  
Harris  
Attorneys at Law  
Albuquerque, New Mexico

Re: Case No. 4309  
Order No. R-3824-A  
Applicant:  
MOBIL OIL CORPORATION

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC           

Aztec OCC           

Other            State Engineer Office

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. 4309  
Order No. R-3824-A

APPLICATION OF MOBIL OIL CORPORATION  
FOR AN AMENDMENT OF ORDER NO. R-3824,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 25, 1970,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 2nd day of March, 1970, 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 by Order No. R-3824, dated September 4, 1969, the  
applicant, Mobil Oil Corporation, was authorized to institute the  
Mobil Langlie Mattix Humphrey Waterflood Project in the Humphrey  
Queen Unit Area in Sections 3 and 4, Township 25 South, Range 37  
East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico, by the  
injection of water into the Queen sand formation through 11 injec-  
tion wells at orthodox and unorthodox locations within said  
Humphrey Queen Unit Area, including the Humphrey Queen Unit Well  
No. 13 to be drilled 2522 feet from the South line and 1220 feet  
from the East line of said Section 4.

(3) That the applicant now seeks the amendment of said  
Order No. R-3824 to permit the drilling of said Humphrey Queen  
Unit Well No. 13 at an unorthodox location 1500 feet from the

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CASE No. 4309

Order No. R-3824-A

South line and 1220 feet from the East line of said Section 4 instead of at the presently authorized location.

(4) That approval of the subject application will not violate correlative rights and will permit a more efficient water injection pattern to be maintained, thereby preventing waste.

IT IS THEREFORE ORDERED:

(1) That Order No. R-3824, dated September 4, 1969, is hereby amended to authorize the applicant, Mobil Oil Corporation, to drill its Humphrey Queen Unit Well No. 13, a water injection well in the Mobil Langlie Mattix Humphrey Waterflood Project, Humphrey Queen Unit Area, for the injection of water into the Queen sand formation, at an unorthodox location 1500 feet from the South line and 1220 feet from the East line of Section 4, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.

(2) That Order No. R-3824 in all other respects shall remain the same.

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

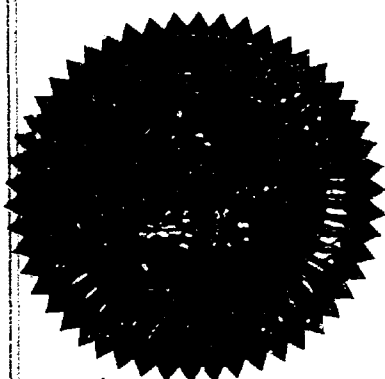
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
ALEX J. ARMILLO, Member

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



osr/

Case 4309  
Hend 2-25-70  
Rec. 2-26-70

Grant Mobil permission to drill  
an NSL for their Humphrey Queen  
unit #13, 1500'S, 1220'E line sec.  
4-25S-37E, Langhe Matter Pool.  
This is an injection well & well  
help protect the reserves under  
this unit.

— *John R. [Signature]*



DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 25, 1970

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- CASE 4296: (Continued from the January 21, 1970 Examiner Hearing)  
Application of S. P. Yates for a pressure maintenance project expansion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand the S. P. Yates West McMillan Anderson Pressure Maintenance Project, authorized by Order No. R-3852, by the injection of water into the Queen formation through one additional well, the Anderson Well No. 3 located 2310 feet from the East line and 990 feet from the South line of Section 11, Township 20 South, Range 26 East, West McMillan-Seven Rivers-Queen Pool, Eddy County, New Mexico.
- CASE 4308: Application of Bill J. Graham for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware formation in the perforated interval from 4913 feet to 4961 feet in his U. S. Smelting Federal Well No. 5 located in Unit P of Section 22, Township 24 South, Range 32 East, Double X-Delaware Pool, Lea County, New Mexico.
- CASE 4309: Application of Mobil Oil Corporation for an amendment of Order No. R-3824, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3824 to permit the drilling of its Humphrey Queen Unit Well No. 13, a water injection well in its Langlie Mattix Humphrey Waterflood Project, at a non-standard location 1500 feet from the South line and 1220 feet from the East line of Section 4, Township 25 South, Range 37 East, Lea County, New Mexico, in lieu of the location authorized in said Order No. R-3824.
- CASE 4310: Application of Klabzuba, Munson and Seaman for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a wildcat oil well to the Devonian formation at an unorthodox location 700 feet from the East line and 2500 feet from the South line of Section 13, Township 10 South, Range 27 East, Chaves County, New Mexico.

CASE 4311: Application of C. E. Long for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests from the surface down to the base of the Seven Rivers formation underlying the S/2 of the NE/4 of Section 31, Township 21 South, Range 36 East, Lea County, New Mexico, to form two 40-acre proration units for Jalmat, Eumont, or South Eunice Oil production to be dedicated to a well to be re-entered in Unit H and a well to be re-entered or to be drilled at a standard location in Unit G of said Section 31 and/or to form an 80-acre non-standard gas proration unit in the event gas production is encountered in the Jalmat or Eumont Gas Pools. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4312: Application of U. S. Potash & Chemical Company, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-111-A to include the following-described lands in the Potash-Oil Area defined by said order:

EDDY COUNTY, NEW MEXICO

Township 23 South, Range 31 East,  
Sections 19, 20, 27, 28, 29 and 30: All

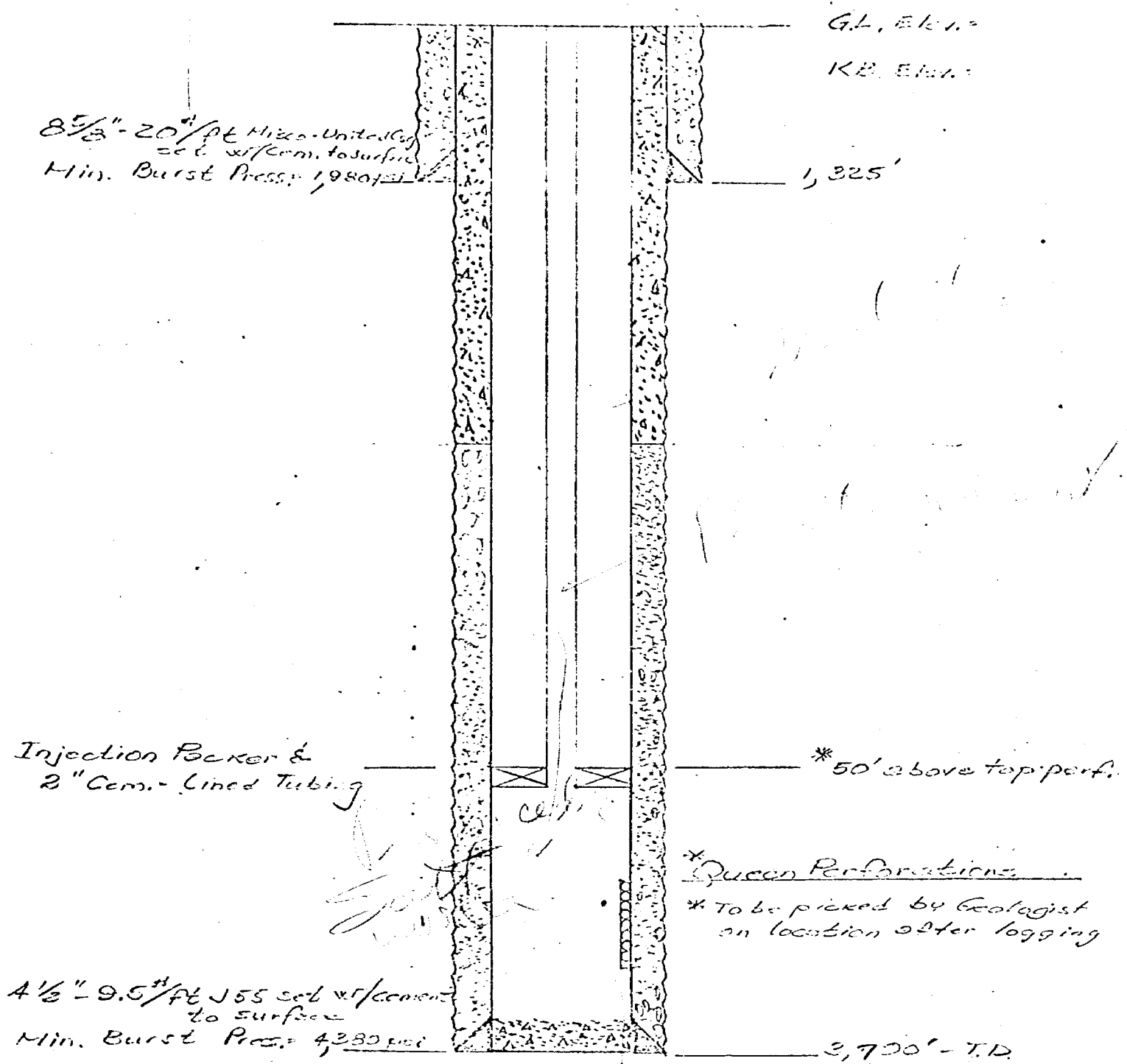
CASE 4313: Application of Atlantic Richfield Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of 160-acre non-standard gas proration unit comprising the N/2 S/2 of Section 36, Township 21 South, Range 37 East, Blinebry Gas Pool, Lea County, New Mexico, to be dedicated to its State 367 Wells Nos. 2 and 3 located, respectively, in Units L and K of said Section 36. Applicant further seeks authority to produce the allowable assigned to said unit from either of the aforesaid wells in any proportion.

CASE 4314: Application of Coastal States Gas Producing Company for pool redelineation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of certain pool boundaries to include the deletion of the W/2 and SE/4 of Section 21, Township 13 South, Range 33 East, Lea County, New Mexico, from the Lazy J-Pennsylvanian Pool and the extension of the North Baum Upper Pennsylvanian Pool to include said deleted acreage.

- CASE 4315: Application of Pan American Petroleum Corporation for pool consolidation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of the Fowler-Lower Paddock and Fowler-Blinebry Pools, Lea County, New Mexico, into one pool. Applicant further requests that the consolidated pool be governed by rules presently applicable to the Fowler-Blinebry Pool.
- CASE 4316: Application of Pan American Petroleum Corporation for an un-orthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104 C 11 to permit the drilling of a well at an un-orthodox gas well location 330 feet from the North and East lines of Section 11, Township 23 South, Range 26 East, South Carlsbad-Strawn, Atoka, and-Morrow Gas Pools, Eddy County, New Mexico. The N/2 of said Section 11 to be dedicated to the well.
- CASE 4317: Application of Union Oil Company of California for the creation of a new gas pool and special pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres gas pool for its Federal "18" Well No. 2 located 660 feet from the South and East lines of Section 18, Township 8 South, Range 38 East, Roosevelt County, New Mexico, and for the promulgation of special rules therefor, including provisions for 160-acre spacing units and a casing program.



Diagrammatic Well Sketch  
 Humphrey Queen Unit Well No. 13 W.M.W.  
 Longlie-Mattix (Queen) Field  
 Lea County, New Mexico.



BEFORE EXAMINER UTZ  
 OIL CONSERVATION COMMISSION  
 EXHIBIT NO. \_\_\_\_\_  
 CASE NO. \_\_\_\_\_

8-20-69  
 (67).



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>13</b>
Unit Letter <b>I</b>	Section <b>4</b>	Township <b>25-S</b>	Range <b>37-E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1220</b> feet from the <b>East</b> line and <b>1500</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3162</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.

<p><b>T 25 S R 37 E</b></p> <p>Found 3" I.P. w/brass cap marked <math>\frac{33}{4} \frac{34}{3}</math></p> <p>Found 1" I.P. w/brass cap marked <math>\frac{4}{3}</math></p> <p>Found 1" I.P. w/brass cap marked <math>\frac{4}{9}</math></p> <p>Found 3" I.P. w/brass cap marked <math>\frac{4}{9} \frac{3}{10}</math></p> <p><b>BEFORE EXAMINER UTZ</b> OIL CONSERVATION COMMISSION EXHIBIT NO. <u>6</u> CASE NO. <u>00000</u></p> <p>#13 1220'</p> <p>2642.5'</p> <p>50°06'E</p> <p>2644'</p> <p>589°54'W</p> <p>1300'</p> <p>1220'</p> <p>0</p>		<p><b>CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Name <b>A. D. Bond</b></p> <p>Position <b>Proration Staff Assistant</b></p> <p>Company <b>Mobil Oil Corporation</b></p> <p>Date</p> <p>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.</p> <p>Date Surveyed <b>January 30, 1970</b></p> <p>Registered Professional Engineer and/or Land Surveyor <b>J. F. Godfrey</b></p> <p>Certificate No. <b>2663</b></p>
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# Mobil Oil Corporation

P.O. BOX 633  
MIDLAND, TEXAS 79701

February 2, 1970

New Mexico Oil Conservation Commission (3)  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Att: Mr. A. L. Porter

Case 4309  
APPLICATION FOR ADMINISTRATIVE  
APPROVAL TO DRILL AND INJECT INTO  
MOBIL OIL CORPORATION'S HUMPHREY  
QUEEN UNIT WELL NO. 13, LANGLIE-  
MATTIX POOL, LEA COUNTY, NEW MEXICO

Gentlemen:

Authority to inject water into the Queen sand through Mobil Oil Corporation's Humphrey Queen Unit Well No. 13 was granted in Commission Order No. R-3824. The location of Well No. 13, which is to be drilled, set forth in this order is 2522' FSL and 1220' FEL of Section 4, T-25-S, R-37-E, Lea County, New Mexico.

Mobil Oil Corporation respectfully requests administrative approval to inject water into the Queen sand through Well No. 13 at a revised location - 1500' FSL and 1220' FEL of said Section 4. This revised location will be 102' FWL and 178.75' FSL of the unit boundary.

In support of this application, attached is:

1. A copy of Commission Form C-101 and C-102 which will be filed with the Commission's District 1 office.
2. A plat showing all wells within a two mile radius of the Humphrey Queen Unit.
3. A plat of the Humphrey Queen Unit showing all wells including the proposed well.
4. A diagrammatic sketch of Well No. 13.

Drilling and injecting into Well No. 13 at the revised location is considered necessary to provide for a more thorough sweep of the unit area.

Mobil further requests that if this application cannot be approved administratively that it be set for the February 25, 1970 Examiner's Hearing.

DOCKET MAILED

Date 2-13-70



**Mobil**

New Mexico Oil  
Conservation Commission

-2-

February 2, 1970

All offset operators are being notified of this application by copy of this letter. If any additional information is required, please advise.

Very truly yours,



Ira B. Stitt  
Division Operations Engineer

CRKreuz/bje  
Attachments

cc: District 1 - NMOCC (w/attach.)

Offset Operators (w/o attach.)

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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.	

## 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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water Injection SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		Humphrey Queen Unit	
2. Name of Operator		8. Farm or Lease Name	
Mobil Oil Corporation			
3. Address of Operator		9. Well No.	
P. O. Box 633, Midland, Texas 79701		13	
4. Location of Well		10. Field and Pool, or Wildcat	
UNIT LETTER I LOCATED 1220 FEET FROM THE East LINE		Langlie-Mattix	
AND 1500 FEET FROM THE South LINE OF SEC. 4 TWP. 25-S RGE. 37-E NMPM		12. County	
		Lea	
19. Proposed Depth		19A. Formation	20. Rotary or C.T.
3700		Queen	Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
D.F. 3172'	On File	Unknown	Soon as possible

23.

## 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#	1325	Circulate	Surface
7-7/8	4-1/2	9.5#	3700	Circulate	1275'

### Mud Program

0 - 1325' Spud Mud  
1325' - T.D. Brine water, Flosal & Oil as necessary

### Logging Program

Surface to Total Depth - Sonic & GR-Neutron

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 Title Proration Staff Assistant Date \_\_\_\_\_  
(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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.

Case 4.309

Operator <b>Mobil Oil Corporation</b>			Lease <b>Humphrey Queen Unit</b>		Well No. <b>13</b>
Unit Letter <b>I</b>	Section <b>4</b>	Township <b>25-S</b>	Range <b>37-E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1220</b> feet from the <b>East</b> line and <b>1500</b> feet from the <b>South</b> line					
Ground Level Elev. <b>3162</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.

<p>Found 3" I.P. w/brass cap marked <math>\frac{33}{4} \frac{34}{3}</math></p> <p><b>T 25 S R 37 E</b></p> <p>Found 1" I.P. w/brass cap marked <math>\frac{4}{3}</math></p> <p>Found 1" I.P. w/brass cap marked <math>\frac{4}{9}</math></p> <p>Found 3" I.P. w/brass cap marked <math>\frac{4}{9} \frac{3}{10}</math></p> <p>1220'</p> <p>1500'</p> <p>2644'</p> <p>50°06'E</p> <p>589°54'W</p>		<p><b>CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Name <b>A. D. Bond</b></p> <p>Position <b>Proration Staff Assistant</b></p> <p>Company <b>Mobil Oil Corporation</b></p> <p>Date</p> <p>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.</p> <p>Date Surveyed <b>January 30, 1970</b></p> <p>Registered Professional Engineer and/or Land Surveyor <b>J. F. Godfrey</b></p> <p>Certificate No. <b>2663</b></p>
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Diagrammatic Well Sketch

Humphrey Queen Unit Well No. 13 W11W

Longlie-Mattix (Queen) Field

Lea County, New Mexico

Case 4209

G.L. Elev. =

K.B. Elev. =

8 $\frac{5}{8}$ " - 20 $\frac{1}{2}$  lb. Misco-Unit Log  
set w/ cement to surface

Min. Burst Press. 1980 psi

1,325'

Injection Packer &  
2" Cement-Lined Tubing

\* 50' above top perf.

\* Queen Perforations

\* To be picked by Geologist  
on location after logging

4 $\frac{1}{2}$ " - 9.5 $\frac{1}{2}$  lb. J55 set w/ cement  
to surface

Min. Burst Press. 4330 psi

3,700' - T.D.

8-20-69  
(W).

Case 4309

OFFSET OPERATORS  
MOBIL OIL CORPORATION'S  
HUMPHREY QUEEN UNIT  
LANGLIE-MATTIX POOL  
LEA COUNTY, NEW MEXICO

ADDRESS LIST

Amerada Petroleum Corporation - Box 591, Midland, Texas 79701

George L. Buckles Company - Box 56, Monahans, Texas 79756

El Paso Natural Gas Company - 600 Bank of Southwest Building,  
Midland, Texas 79701

Gulf Oil Corporation - Box 1150, Midland, Texas 79701

Texaco Inc. - P. O. Box 3109, Midland, Texas 79701

Union Texas Petroleum - Box 2120, Houston, Texas 77001

DRAFT

GMH/esr

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. 4309

Order No. R-3824-A

APPLICATION OF MOBIL OIL CORPORATION  
FOR AN AMENDMENT OF ORDER NO. R-3824,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 25, 19670,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this \_\_\_\_\_ day of March, 19670, 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 by Order No. R-3824, dated September 4, 1969, the  
applicant, Mobil Oil Corporation, was authorized to institute the  
Mobil Langlie Mattix Humphrey Waterflood Project in the Humphrey  
Queen Unit area in Sections 3 and 4, Township 25 South, Range 37  
East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico, by the  
injection of water into the Queen sand formation through 11 injec-  
tion wells at orthodox and unorthodox locations within said  
Humphrey Queen Unit Area, including the Humphrey Queen Unit Well  
No. 13 to be drilled 2522 feet from the South line and 1220 feet  
from the East line of said Section 4.

(3) That the applicant now seeks the amendment of said Order No. R-3824 to permit the drilling of said Humphrey Queen Unit Well No. 13 at an unorthodox location 1500 feet from the South line and 1220 feet from the East line of said Section 4 instead of at the presently authorized location.

(4)



(4) ~~(5)~~ That approval of the subject application will not violate correlative rights and will permit ~~a~~<sup>more</sup> efficient water injection pattern to be maintained, thereby preventing waste.

IT IS THEREFORE ORDERED:

(1) That Order No. R-3824, dated September 4, 1969, is hereby amended to authorize the applicant, Mobil Oil Corporation, to drill its Humphrey Queen Unit Well No. 13, a water injection well in the Mobil Langlie Mattix Humphrey Waterflood Project, Humphrey Queen Unit Area, for the injection of water into the Queen sand formation, at an unorthodox location 1500 feet from the South line and 1220 feet from the East line of Section 4, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Lea County, New Mexico.

(2) That Order No. R-3824 in all other respects shall remain the same.

(3) 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.

CASE 4310: Appli. of KLABZUBA,  
MUNSON AND SEAMAN FOR AN UNORTH-  
ODOX OIL WELL LOCATION.