

CASE 4036: Application of MOBIL  
OIL CORP. FOR A DUAL COMPLETION,  
CHAVES COUNTY, NEW MEXICO.

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- dse Number

4036

Application

Transcripts.

Small Exhibits

ETC.

**SPECIALIZING IN: DEPOSITIONS, HEARINGS, & TRIALS**

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

EXAMINER HEARING

Application of Mobil Oil Corporation  
for a pool creation and discovery  
allowable, Chaves County, New Mexico

Case No. 4052

Application of Mobil Oil Corporation  
for a dual completion, Chaves County,  
New Mexico.

Case No. 4036

TRANSCRIPT OF HEARING

## NEW MEXICO OIL CONSERVATION COMMISSION

## EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date FEBRUARY 26, 1969 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
Richard J. McNeil	Montgomery et al	Santa Fe
R L Hoeker	Amerasia Ref Corp.	Tulsa
C. C. Stephenson	Amerasia Ref. Corp.	Midland
C. R. Kreuz	MOBIL OIL CORP	MIDLAND
W. B. Simmons, Jr.	"	"
B. F. Greve	"	"
J. B. Jordan	Union Oil Co of Cal	Roswell
Richard Harg	Kerr-McGee	Albuquerque
Robert E. Williams	"	Okla. City
D. G. Holland	Union Oil Co. of Cal.	Midland, Texas
M. L. Zoller	Union Oil Co of Calif	Midland Texas
G. W. COOMBS	Union Oil Co of Calif	MIDLAND TEX.
Chas D. Cary	Union Oil Co of Calif	Roswell, N.M.
George J. ...	E. P. Products Co.	Farmingdale, N.Y.
J. ...	Engene C. ...	Albuquerque
John D. Russell	Union Oil Co. of Cal.	Roswell, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date FEBRUARY 26, 1969

TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
M. L. Ayers	El Paso Production	Odessa, Texas
John Mason	" "	"
R. P. Peterson	" "	"
Hiram Keith	Keith & Haines	"
W. H. McSwain Jr.	Sid Haines	Kermit, Texas
James F. Obriant	SID LAMICK	Santa Fe
Jason Kellah	Kellah & Fox	N. M.
William J. LeMay	LeMay & Stevens	MIDLAND, TEX.
Anna D. Darnie	RW Byram	Santa Fe
April L. Fines	Atlantic Richfield	Santa Fe
Ann H. Hulse	" "	Santa Fe
A. J. Lasee	M. Yates III	En. Co. Fe.
Millard Deck	Millard Deck	Roswell
M. L. Armstrong	Martin Yates	Roswell
C. W. Jamnoff	Anadarko Production Co.	Artisia
		Artisia
		Artisia
		Fort Worth

MR. SPERLING: Case 4052 and 4036 have been consolidated for the purposes of testimony.

MR. UTZ: Cases 4052 and 4036 will be consolidated for purposes of testimony. Separate orders will be written on each case.

MR. HATCH: Case 4052, application of Mobil Oil Corporation for a pool creation and discovery allowable, Chaves County, New Mexico, and Case 4036, application of Mobil Oil Corporation for a dual completion, Chaves County, New Mexico.

MR. SPERLING: James E. Sperling, of Modrall, Seymour, Sperling, Roehl and Harris, appearing for the Applicant in these two cases. We have two witnesses.

MR. UTZ: Are there other appearances in these two cases? You may swear the witness.

(Whereupon, Applicant's Exhibits 1 through 4 were marked for identification.)

(Whereupon, Applicant's Exhibits 1 through 3 were marked for identification.)

(Witnesses sworn.)

MR. SPERLING: Ready to proceed, Mr. Examiner?

MR. UTZ: You may proceed.

BRUCE GREVE

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

DIRECT EXAMINATION

BY MR. SPERLING:

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

A Bruce Greve, G-r-e-v-e; I live in Midland, Texas; employed by Mobil Oil Company.

Q What is your job assignment?

A Production geologist.

Q Have you testified on any previous occasion before the Oil Conservation Commission in New Mexico?

A No, I have not.

Q Would you, then, for the record please give a resume of your educational and experience background leading to your qualifications in the capacity in which you represent Mobil.

A I have a Bachelor of Science Degree from Michigan State University. I have worked for Mobile Oil Company approximately sixteen years, of which about eight years

have been with New Mexico.

MR. SPERLING: Are the witnesses qualifications acceptable?

MR. UTZ: Yes, sir, the witness is qualified.

Q (By Mr. Sperling) Now, Mr. Greve, are you familiar with the application of Mobil Oil Corporation in Case No. 4052?

A Yes, sir.

Q Explain briefly what is sought by the application.

A Well, we are asking for the creation of a new pool and discovery allowables for the Penn in the Mobil No. 1 O'Brien. This well is located in the Lightcap Field, Chaves County, New Mexico.

Q Would you refer to what's been marked as Exhibit No. 1 in Case No. 4052 and explain what that Exhibit consists of and what its purpose is?

A This is a data map of the area involved. It shows the Penn discovery. This is a higher zone in a producing well.

MR. UTZ: What kind of zone?

THE WITNESS: A higher zone in the well. The



Lightcap Field itself consist of two Devonian wells and we are completing our No. 1 O'Brien to be a dual completion in the new Pennsylvanian zone and also the Devonian.

Q (By Mr. Sperling) Now, would you give a resume of the history of this well, from the time of its having been originally drilled and what completion has been recently accomplished on it?

A The Mobil O'Brien was flooded on July 23, 1950 and drilled to a depth of eight thousand fifteen feet. It was completed in the Devonian from perforations 7953 to 7963, 7973 to 7983 and 7996 to 8006. Completion date was November 24, 1950. This well was then recompleted in the Pennsylvanian, January 19, 1961 and is presently being dual completed with the Devonian. The existing perforations in the Devonian are 7903 to 7933 -- these are new perforations -- the old perforations are also opened. They are 7953 to 7963, 7973 to 7983, 7996 to 8006.

MR. UTZ: Do you have those perforations listed on any of your exhibits?

MR. SPERLING: Yes, they are shown, Mr. Examiner, on the log which is Exhibit 2.

MR. UTZ: Okay.

THE WITNESS: The perforations is seven-inch casing with tubing packer set at 7875; Pennsylvanian tubing packer is set a 7074.

Q (By Mr. Sperling) Would you give the results of the initial potential test in the Pennsylvanian and the Devonian?

A The initial potential test, 89 barrels of oil per day in the Pennsylvanian and this is also a recompletion in the Devonian, 32 barrels a day in the Devonian. GOR, 12,989 to 1 in the Pennsylvanian; 8718 to 1 in the Devonian. Water, 5 barrels of water in the Pennsylvanian and no water in the Devonian. Gravity is 51.8 at 60 degrees Fahrenheit in the Pennsylvanian, 49.5 at 60 degrees Fahrenheit in the Devonian. Test volume in the Pennsylvanian, 1156 MCF gas per day. A flowing tubing pressure in the Pennsylvanian is 550 pounds; in the Devonian, it is 105 pounds. Choke in the Pennsylvanian, 24/64; the Devonian is 18/64. The completion date in the Pennsylvanian is 1-19-69; Devonian is 2-17-69.

Q Now, would you please --

MR. UTZ: Excuse me. What was that completion date in the Penn, again?

THE WITNESS: 1-19-69.

MR. UTZ: And two what?

THE WITNESS: Two-17-69 for the Devonian.

MR. UTZ: Okay. Thank you.

Q (By Mr. Sperling) Now, what other Devonian production is there in the area?

A There is one well directly north of the O'Brien No. 1; it is called the Mobil Lightcap Lane Company Number 1.

Q And that well is shown on the southeast quarter of the southeast quarter of Section 6 on the map, which is Exhibit 1, is that right?

A That's correct.

Q With the well in question shown to be located in the northeast quarter of the northeast quarter of Section 7 on that exhibit?

A Correct.

Q Now, I'll ask that you refer to what has been marked as Exhibit No. 3 and this appears to be form C109 filed with the Commission, is that correct?

A That's right.

Q And in support of that application and this application, has a copy of this application form C109 been forwarded to other operators?

A Yes, it has.

Q Now, in your opinion, does the discovery within the Pennsylvanian Zone constitute a new reservoir in the Lightcap Field?

A Yes, it is.

Q Where is the nearest similar production?

A Nearest similar production is in the Tobac field, approximately seventeen miles east. Also, there is deeper Pennsylvanian gas production nine miles to the southeast in the Penzoil Pubco 33 Federal Number One.

Q That's the only Pennsylvanian production in the area, within that radius that you just mentioned?

A That is right. There is none -- there's no well on the exhibit map.

MR. UTZ: How far away was the Penzoil well?

THE WITNESS: The Penzoil well was nine miles southeast.

MR. UTZ: Are these two wells that you mentioned here completed in the same zone as the Penn?

THE WITNESS: The Penzoil well, I would say, would be a lower zone and the Pennsylvanian would not be the same as our O'Brien.

MR. UTZ: How about the Tobac?

THE WITNESS: The Tobac would be approximately the same because of the distance.

Q (By Mr. Sperling) May I refer you to what has been marked as Exhibit No. 4, which appears to be an affidavit relating to this particular well. What's the purpose of that?

A This is an affidavit to the effect that the Pennsylvanian Zone is new reservoir showing what kind of hydrocarbon it has tested, completed in and also that there's no Pennsylvanian wells within five mile radius and actually is more than this of the O'Brien No. 1.

Q This actually is submitted in connection with the C109 which you have referred to previously as Exhibit No. 3?

A Yes.

Q On the basis of the discovery of this Pennsylvanian production in this area, is it Mobil's position that such discovery qualifies for the allowance of an allowable based upon new discovery in this field at this location?

A Yes.

Q Do you have an estimate of the discovery allowable permitted under the existing rules of this well?

A The allowable is estimated to be thirty-five thousand five hundred ninety barrels of oil, based on five barrels per foot from the ground elevation, which is four thousand sixty-seven to the top of the Pennsylvanian perforations which is 7130. The Pennsylvanian perforations, I might give, is 7130 to 33, 7138 to 40, and 7146 to 68.

Q And that information is shown on the log which has been marked as Exhibit 2?

A Correct.

MR. UTZ: Now, those perforations distances you gave me, is that from sub C?

THE WITNESS: No, that's from derrick floor.

MR. UTZ: From derrick floor?

THE WITNESS: Yes. That is the --

MR. UTZ: In other words, you get your allowable

by 7130 minus the distance from the surface of the derrick floor?

THE WITNESS: That is correct, which is twelve feet.

MR. UTZ: Twelve feet? That's what you use to get your 95 -- what was it?

THE WITNESS: 35 to 590.

MR. UTZ: 35 to 590?

THE WITNESS: This is different than what was in the application.

Q (By Mr. Sperling) Do you have anything else to present in connection with the application?

A No, I have not.

MR. SPERLING: I would like to offer at this time Exhibits 1 through 4.

MR. UTZ: Without objection, Exhibits 1 through 4 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits 1 through 4 were received in evidence.)

MR. SPERLING: That's all we have at this time.

MR. UTZ: On either case?

MR. SPERLING: No.

MR. UTZ: You still got --

MR. SPERLING: Do you want to proceed with that now, or do you want to ask this witness some questions?

MR. UTZ: It's a good place to ask some questions, maybe, so we will finish this one up.

CROSS EXAMINATION

BY MR. UTZ:

Q What was your suggestion as to the horizontal limits of this pool, or did you have any?

A We had no suggestions. Horizontal limits are not yet determined.

Q You are not asking for spacing here, are you?

A No, sir, not at this time.

Q So, actually it's forty acres?

A Forty acres.

Q Do you have any plans to drill any other wells at this time?

A Not at the present time.

Q Now, could you tell me on your Exhibit No. 2, is it the log, what zone that you people call this; is it Bough C?



A Well, it's roughly correlative, but we thought it would be best just to call it Penn Lime.

Q Penn Lime?

A Yes.

Q You tested any other zones in the Penn --

A No, sir.

Q -- in trying to complete this?

A No, sir.

Q No shows that you know of?

A No.

Q What I am getting at, Penn Lime could mean any lime in the Penns. If we get another one, we will have to change the name.

A This is the only shows that we had that would indicate any production.

Q So, I gathered then that your preference for a pool name would be Lightcap Penn?

A Right.

MR. UTZ: Are there any other questions of the witness? Is this witness going to testify in the other case at all?

MR. SPERLING: No.

MR. UTZ: He may be excused.

C. R. KREUZ

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

DIRECT EXAMINATION

BY MR. SPERLING:

Q Would you state your name, please, your place of residence, by whom you are employed and in what capacity?

A My name is C. R. Kreuz, K-r-e-u-z; I reside in Midland, Texas; I am employed by Mobil Oil Corporation as Senior Production Engineer.

Q Have you testified before the Oil Conservation Commission in New Mexico on previous occasions?

A Yes, sir, I have.

Q Your qualifications are then a matter of record?

A Yes, sir.

MR. SPERLING: The witnesses qualifications are acceptable, I assume, Mr. Examiner?

MR. UTZ: Yes, sir, they are.

Q (By Mr. Sperling) Mr. Kreuz, you are aware

for the purposes of testimony we have combined Case 4052, application of Mobil Oil Corporation for the creation of a new pool and discovery allowable and Case No. 4036, which is an application for dual completion of the same well upon which the application for pool creation is based.

We have previously entered into the record Exhibit No. 1 in Case 4052, which is an area map showing the location of the well in question and an identical exhibit bearing the same designation of one has been marked in Case 4036. I don't believe it's necessary in this witnesses' testimony to refer again to the exhibits and have him explain what it shows. I think the testimony of the previous witness will suffice for that purpose, so if you will proceed, Mr. Kreuz, with your testimony relating primarily to the completion of the subject well as a dual completion in the Devonian and the Pennsylvanian formation and in that connection, I don't believe it will be necessary, unless the Examiner desires it, to again give the perforation intervals, since those are shown on Exhibit No. 2, which is a log of the well and the perforations were reviewed by the previous witness, so, would you please refer to what has been marked as Exhibit No. 2 in this case, which is a

diagrammatic sketch of the well and the proposed completion insofar as the dual is concerned and explain what is shown on that exhibit?

A Yes, sir. Exhibit 2 is a diagrammatic well sketch of the subject well showing the casing pattern and cement and the perforations. Referring to Exhibit 2 that was 990 feet of 13 and 3/8 inch surface casing set; 9 and 5/8 inch casing was set at 4057 feet and 7-inch casing was set at 8077 feet. Cement was circulated behind the surface casing, the 13 and 3/8 inch casing to the surface. The 9 and 5/8 inch casing was set with 3283 sacks of cement. The estimated cement top there is 590 feet. Seven-inch casing was set with 1323 sacks of cement. The estimated cement top behind the seven-inch as indicated on the temperature log is 3852 feet. A Gleberson type AR packer was set in the seven-inch casing at 7875 feet and a hucky type H2 dual packer was set at 7074 feet. A string of 2 and 3/8 production tubing was installed for each zone. The O'Brien No. 1 is presently completed with no down hole commingling of hydrocarbons from a separate strata. The well is also equipped so that reservoir pressure may be determined from each separate producing strata and a dual

head has been connected to the well so the gas and oil from each zone may be accurately measured and their gas-oil ratio determined.

Q Is there any other pertinent information contained on Exhibit 2?

A I might mention that the well was originally drilled to 8115 feet and plugged back to 8017 feet and originally completed in the Devonian formation and has recently been recompleted with additional perforations in the Devonian formation and with new perforations opened up in the Penn formation.

Q Now, has the well undergone test in order to determine test data insofar as these two zones are concerned?

A Yes, sir.

Q Is that well test data shown on what's been marked as Exhibit 3?

A Yes, it is.

Q Would you review that, please?

A Exhibit 3 is well test data from the subject well, broken down by each formation. Some of this information was given in the previous case, but I will review it here.

All production from the Devonian was 32 barrels per 24 hours; from the Penn was 89 barrels per 24 hours. Gas production per 24 hours was in the Devonian 279 MCF; from the Penn was 1156 MCF, giving a gas-oil ratio in cubic feet per barrel of 8718 to 1 in the Devonian and 12989 in the Pennsylvanian. There was no water production from the Devonian and there was five barrels of low water from the Penn. The oil gravity was 48.5 degrees API at 60 degrees Fahrenheit for the Devonian and 51.8 for the Penn. The flowing tubing pressure in the Devonian was 105 and in the Penn was 550 PSIG. The date of these tests in the Devonian, it was February 24-69 and in the Pennsylvanian, it was February 9, 1969. We have obtained a 24 hour shut-in reservoir pressure with a bottom hole pressure bomb and this was taken on February 22, 1969 and revealed that at the midpoint of the Penn perforations we had a reservoir pressure of 2957 PSIG.

MR. UTZ: What was that midpoint; do you have that?

THE WITNESS: Yes, sir, that was at a depth of 7149 feet.

MR. UTZ: Thank you.

Q (By Mr. Sperling) Now, has a packer leakage test been conducted on this well?

A Yes, sir, it has. It was completed yesterday and as of yet, we do not have our packer leakage test form and completed in the charts available for submission at this time. However, we will submit the packer leakage test form and the recording charts as soon as we can by mail.

Q Now, the proposed dual completion is a conventional type completion, is it not?

A Yes, sir, it is.

Q Do you have anything else to add, Mr. Kreuz?

A No, sir.

MR. SPERLING: At this time, I would like to offer Exhibits 3 and 4 with -- we have marked four in this case as was the case in the other case.

MR. UTZ: Why don't we offer them?

MR. SPERLING: I'll offer 1 through 4, then.

MR. UTZ: All right.

MR. HATCH: Did we get them into the other case?

MR. SPERLING: Yes.

MR. UTZ: Yes. Without objection, Exhibits 1 through 3 will be entered into the record.

(Whereupon, Applicant's Exhibits 1 through 3 were received in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q Was this 24 hour pressure in the Penn stabilized?

A This was a 24 hour shut-in pressure, yes, sir.

Q Do you have any record of whether it was stabilized or not?

A No, sir. I have a copy of the bottom hole pressure record, if we could --

Q How long did it run?

A It was just -- the well had been shut in previously for 24 hours and they just ran the bomb down to the midpoint of the Penn perforations and then pulled the bomb right back out.

Q So, it was only in there a few minutes?

A Yes, sir.

Q Do you have any opinion as to whether this pressure is stabilized or not?



A Yes, sir. I feel like it is.

MR. UTZ: Are there any other questions of the witness? He may be excused. Statements in this case? The cases will be taken under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
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C. R. KREUZ	
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Cross Examination by Mr. Utz	20

E X H I B I T S

<u>EXHIBIT</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's 1 through 4	2	11
Applicant's 1 through 3	2	20

[illegible]

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  
Court Reporter

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the hearing held at Case No. 4036  
Sept. 26, 1969.  
\_\_\_\_\_  
Mexico Oil Conservation Commission

dearnley-meier

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

February 5, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Oil  
Corporation for a dual  
completion, Chaves County,  
New Mexico.

Case No. 4036

BEFORE: Daniel S. Nutter,  
Examiner

TRANSCRIPT OF HEARING





MR. NUTTER: The hearing will come to order, please.

Case No. 4036.

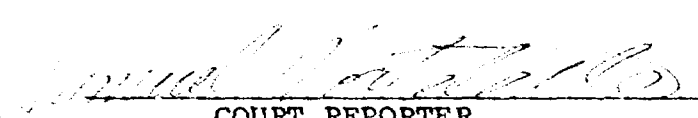
MR. HATCH: Case 4036, application of Mobil Oil Corporation for a dual completion, Chaves County, New Mexico.

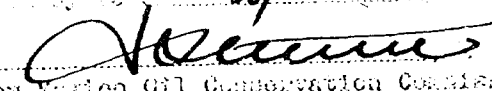
We have received a request from the applicant to continue this case to February 26.

MR. NUTTER: Case 4036 will be continued to nine o'clock, A.M., February 26, 1969, at this same place.

STATE OF NEW MEXICO       )  
                                   )  
 COUNTY OF BERNALILLO    )   ss.

I, SAMUEL MORTELETTE, 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.

  
 COURT REPORTER

I do hereby certify that the foregoing is  
 a correct and true copy of the  
 the transcript of the hearing held on  
 held by me on 2/5 4036  
 69  
  
 New Mexico Oil Conservation Commission





# OIL CONSERVATION COMMISSION

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

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMISO  
MEMBER

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

**March 5, 1969**

Mr. James E. Sperling  
Modrall, Seymour, Sperling,  
Roehl & Harris  
Attorneys at Law  
Post Office Box 2168  
Albuquerque, New Mexico 87106

Re: Case No. 4036  
Order No. R-3696  
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,

G. L. Porter, Jr.

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC           x            
 Artesia OCC           x            
 Aztec OCC                           

Other \_\_\_\_\_

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. 4036  
Order No. R-3696

APPLICATION OF MOBIL OIL CORPORATION  
FOR A DUAL COMPLETION, CHAVES COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 26, 1969,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 5th day of March, 1969, 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, seeks  
authority to complete its C. L. O'Brien Well No. 1, located in  
Unit A of Section 7, Township 8 South, Range 30 East, NMPM,  
Chaves County, New Mexico, as a dual completion (conventional)  
to produce oil from the Lightcap-Pennsylvanian Pool and the  
Lightcap (Devonian) Pool through parallel strings of 2 3/8-inch  
tubing, with separation of the zones by a packer set at approxi-  
mately 7875 feet.

(3) That the mechanics of the proposed dual completion are  
feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent  
waste and protect correlative rights.

-2-

CASE No. 4036  
Order No. R-3696

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to complete its C. L. O'Brien Well No. 1, located in Unit A of Section 7, Township 8 South, Range 30 East, NMPM, Chaves County, New Mexico, as a dual completion (conventional) to produce oil from the Lightcap-Pennsylvanian Pool and the Lightcap (Devonian) Pool through parallel strings of 2 3/8-inch tubing, with separation of the zones by a packer set at approximately 7875 feet;

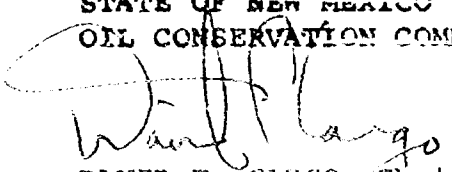
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Lightcap (Devonian) Pool.

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

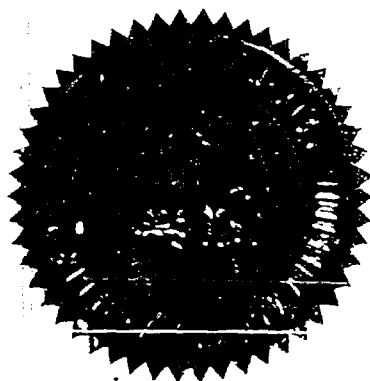
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. LUGO, Chairman

  
ALEX J. ARMIDO, Member

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



CSR/

Case 4036

Leads 2-2669

Rec: 2-2869

(Amendment)

Grant Mobil a ~~complete description~~  
~~for the C.L.O.'Brien #1, A-7-85-30E,~~  
~~to be called the Lightcap Penn~~  
Penn oil Pool.

~~Grant~~ Grant permission to dually  
complete the same well in the  
Lightcap-Penn + the Lightcap  
Devonian. Each zone shall  
be produced thru 2" tubing  
w/ a packer set at approx 7874  
at the above the penn and another  
set at 7875 (approx) between the  
penn + dev.

Usual (conventional) dual order  
otherwise.

Trust M

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 26, 1969

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 4052: Application of Mobil Oil Corporation for a pool creation and discovery allowable, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the Lightcap-Pennsylvanian Pool in Chaves County, New Mexico, comprising the NE/4 NE/4 of Section 7, Township 8 South, Range 30 East, and for the assignment of approximately 35,650 barrels of oil discovery allowable to the discovery well, its C. L. O'Brien Well No. 1 located in Unit A of said Section 7.

CASE 4036: (Continued from the February 5, 1969, Examiner Hearing) Application of Mobil Oil Corporation for a dual completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its C. L. O'Brien Well No. 1 located in Unit A of Section 7, Township 8 South, Range 30 East, Chaves County, New Mexico, to produce oil from an undesignated Pennsylvanian oil pool and the Lightcap (Devonian) Pool through parallel strings of tubing.

CASE 4053: Application of El Paso Products Company for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Gallegos-Gallup Pool, San Juan County, New Mexico, including provisions for the classification of oil and gas wells, 80-acre spacing for oil wells, and 320-acre spacing for gas wells.

CASE 4054: Application of Amerada Petroleum Corporation for an unorthodox oil well location and amendment to Order No. R-2197, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1250 feet from the West line and 2220 feet from the South line of Section 28, Township 24 South, Range 30 East, in its Langlie Mattix Woolworth Unit Waterflood Project, Langlie-Mattix Pool, Lea County, New Mexico. Applicant also seeks the amendment of Order No. R-2197, which order authorized said waterflood project, to establish an administrative procedure whereby said project could be expanded to include additional lands and injection wells and producing wells at orthodox and unorthodox locations as may be necessary to complete an efficient injection and producing pattern without the necessity of showing well response.

- CASE 4055: Application of Albert Gackle for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the open-hole interval from approximately 3290 feet to 3620 feet in his George Etz Well No. 3 located in Unit N of Section 27, Township 23 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4056: Application of Albert Gackle 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 Queen formation in the perforated interval from approximately 3642 feet to 3699 feet in his Sinclair "A" State Well No. 5 located in Unit I of Section 23, Township 23 South, Range 36 East, Langlie-Mattix Pool, Lea County, New Mexico.
- CASE 4057: Application of Charles B. Read for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units.
- CASE 4058: Application of Hiram W. Keith and Dalton Haines for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Seven Rivers formation in the open-hole interval from approximately 3874 feet to 3951 feet in their State Well No. 2 located in Unit K of Section 16, Township 21 South, Range 34 East, West Wilson Pool, Lea County, New Mexico.
- CASE 4059: Application of Hiram W. Keith and Dalton Haines for salt water disposal, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Delaware formation in the open-hole interval from approximately 4030 feet to 4158 feet in their Eddy "AGA" State Well No. 2 located 660 feet from the North line and 1650 feet from the West line of Section 36, Township 26 South, Range 31 East, North Mason-Delaware Pool, Eddy County, New Mexico.
- CASE 4060: Application of Sidney Lanier for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from approximately 3402 feet to 3650 feet in his I. B. Ogg "A" Well No. 5 located in Unit J of Section 35, Township 24 South,

(Case 4060 continued)

Range 36 East, Jalmat Yates-Seven Rivers Pool, Lea County, New Mexico.

CASE 4061: Application of Millard Deck Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers and Queen formations in the open-hole interval from approximately 3752 feet to 3872 feet in its Atha Well No. 1 located in Unit M of Section 31, Township 21 South, Range 36 East, South Eunice Pool, Lea County, New Mexico.

CASE 4062: Application of Kersey & Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 1835 feet to 1870 feet in the Bass Well No. 3 located in Unit F of Section 12, Township 19 South, Range 28 East, East Millman Queen-Grayburg Pool, Eddy County, New Mexico.

CASE 4063: Application of Kerr-McGee Corporation for the creation of a new gas pool and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new pool for the production of gas from the Morrow formation by its Nix Well No. 1 located in Unit L of Section 11, Township 19 South, Range 26 East, Eddy County, New Mexico, and for the promulgation of special pool rules therefor, including a provision for 640-acre spacing.

CASE 4064: Application of Atlantic Richfield Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 4207 feet to 4286 feet in its Tucker Well No. 4 located in Unit O of Section 23, Township 7 South, Range 32 East, Chaveroo-San Andres Pool, Roosevelt County, New Mexico.

CASE 4065: Application of Humble Oil & Refining Company for an unorthodox oil well location and reclassification of a water well to an oil well, Lea County, New Mexico. Applicant, in the above-styled cause, seeks to have its New Mexico State "S" Water Source Well No. 4 (CP-427), located at an unorthodox oil well location 650 feet from the West line and 175 feet from the

South line of Section 2, Township 22 South, Range 37 East, Lea County, New Mexico, reclassified as an oil well for the production of oil an undesignated San Andres Oil Pool and authority to produce same as an oil well.

CASE 4066: Application of Humble Oil & Refining Company for the consolidation of two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard 320-acre gas proration units into one standard 640-acre unit comprising all of Section 26, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its New Mexico State "G" Wells Nos. 2 and 4 located in Units P and G, respectively, of said Section 26. Applicant further seeks authority to produce the allowable assigned to said unit from either of said wells in any proportion.

CASE 4067: Application of Benson-Montin-Greer Drilling Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the La Plata-Gallup Pool, San Juan County, New Mexico, including a provision for 160-acre spacing and proration units. Applicant further requests that said special rules provide that the unit allowable for a 160-acre unit in said pool be allocated on the basis of four times the normal unit allowable for Northwest New Mexico, and that no credit be given for depth factors. Applicant further requests that said special rules be limited in their application to the exterior boundaries of the La Plata-Mancos Unit Area.

CASE 4068: Application of Martin Yates III for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware formation in its Yates & Hanson McCord Well No. 1 located in Unit E of Section 22, Township 23 South, Range 26 East, Dark Canyon Field, Eddy County, New Mexico. Applicant further seeks a procedure whereby its Cordie King Well No. 2 located in Unit K of said Section 22 may be approved for the disposal of salt water without the requirement of notice and hearing.



Examiner Hearing  
February 26, 1969

- CASE 4045: (Continued from the February 5, 1969 Examiner Hearing)  
Application of H & S Oil Company for an amendment to Order No. R-3357, as amended by Order No. R-3357-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3357, as amended by Order No. R-3357-A, which order authorized the H & S West Artesia Unit Unit Waterflood Project. Applicant proposes to substitute the Roach Drilling Company-Leonard Well No. 18 located in Unit D of Section 17 as a water injection well in said project in lieu of the Cities Service-Mell Well No. 17 located in Unit M of Section 8, both in Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.
- CASE 4069: Application of Union Oil Company of California for the creation of a new pool, assignment of discovery allowable, and the promulgation of special pool rules, Lea County, New Mexico.
- Applicant, in the above-styled cause, seeks the creation of a new Devonian oil pool for its Midway State Well No. 1 located in Unit F of Section 12, Township 17 South, Range 36 East, Lea County, New Mexico, and for the assignment of an oil discovery allowable in the amount of approximately 57,380 barrels to said well. Applicant further seeks the promulgation of special pool rules for said pool, including a provision for 80-acre proration units.
- CASE 4070: Application of C. E. LaRue and B. N. Muncy, Jr., for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the salt and Yates formations in the open-hole interval from approximately 1254 feet to 3000 feet in the La Rue-Muncy John "B" Well No. 2 located in Unit A of Section 35, Township 17, South, Range 32, East, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico.

# Mobil Oil Corporation

P.O. BOX 633  
MIDLAND, TEXAS 79701

RECEIVED  
JAN 31 1969  
January 29, 1969

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

Attn: Mr. A. L. Porter

*MA*  
CASE 4036 - APPLICATION FOR  
A DUAL COMPLETION, MOBIL OIL  
CORPORATION'S C. L. O'BRIEN  
WELL NO. 1, LIGHTCAP (DEVONIAN)  
POOL, UNDESIGNATED (PENNSYLVANIAN)  
POOL, CHAVES COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation respectfully requests that the subject case, scheduled for February 5, 1969, be postponed and re-scheduled for the February 26, 1969 examiner hearing. Potential tests of Mobil's C. L. O'Brien No. 1 are currently being conducted. The information required for this case may not, therefore, be available by February 5, 1969.

Since one of the pools in which C. L. O'Brien No. 1 is completed is undesignated, Mobil intends to submit an application for creation of a new pool. Mobil further requests that this application for creation of a new pool also be considered at the February 26 hearing. Form C-109 will be submitted as soon as the potential tests are completed.

If any additional information is required please advise.

Yours very truly,

*Ira B. Stitt*

Ira B. Stitt  
Division Operations Engineer

CRKreuz/bje

DOCKET M.  
Date \_\_\_\_\_

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 5 1969

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 Examiners:

CASE 4036: Application of Mobil Oil Corporation for a dual completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its C. L. O'Brien Well No. 1 located in Unit A of Section 7 Township 8 South, Range 30 East, Chaves County, New Mexico, to produce oil from an undesignated Pennsylvanian oil pool and the Lightcap (Devonian) Pool through parallel strings of tubing.

CASE 3975 (Reopened):

In the matter of Case No. 3975 being reopened pursuant to the provisions of Order No. R-3618, which order established 80-acre spacing units for the East Bluit-San Andres Pool, Roosevelt County, New Mexico, for a period of approximately two months. All interested parties may appear and present evidence as to whether the subject area is indeed a separate common source of supply or an extension of the Bluit-San Andres Gas Pool.

CASE 4010: (Continued from December 27, 1968 and January 8, 1969 Examiner Hearings)

Application of John H. Trigg for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through his Empire "J" Federal Well No. 1 located in Unit P of Section 1, Township 18 South, Range 26 East, Red Lake Grayburg-San Andres Pool, Eddy County, New Mexico.

CASE 4037: Application of Anadarko Production Company for several waterflood projects and waterflood buffer zones, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute several waterflood projects by the injection of water into the Grayburg and San Andres formations of the Square Lake Pool by the conversion to water injection of its Etz Federal Well No. 3 and its Eiler Well No. 14 located, respectively, in Sections 19 and 20 of Township 16 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks the designation of the S/2 SW/4 of said Section 19, the N/2 SE/4 of said Section 19, and the N/2 SE/4 of said Section 20 as waterflood buffer zones with capacity allowances.

CASE 4038: Application of Kennedy Oil Company for a waterflood project and waterflood buffer zone, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg and San Andres formations of the Square Lake Pool by the conversion to water injection of its Carper Federal Well No. 2 located in Unit K of Section 19, Township 16 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks the designation of the N/2 SW/4 of said Section 19 as a waterflood buffer zone with capacity allowable.

CASE 4039: The application of the Oil Conservation Commission upon its own motion for an order granting an exception to the ninth paragraph of Chapter II, Section 2 of Order No. R-333-F to permit shutting in gas wells for the required shut-in test at some period during the 1969 test season other than immediately following the 7-day deliverability flow test; further to permit measuring the shut-in test pressure during the 8th to 15th day of shut-in of the well rather than on the 8th day as presently required. The above exceptions would be for the 1969 annual deliverability test season only and would be applicable to all wells in San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, subject to the testing requirements of Chapter II of Order No. R-333-F.

CASE 4023: (Continued and readvertised from the January 15, 1969 Regular Hearing)

Application of Ernest A. Hanson for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 1724 feet to 1736 feet in his Welch Federal Well No. 2 located 1650 feet from the North line and 2310 feet from the West line of Section 22, Township 19 South, Range 28 East, East Millman Queen-Grayburg Pool, Eddy County, New Mexico.

CASE 4040: Application of Cities Service Oil Company for the institution of gas prorationing in the Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the limitation of gas production from the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to reasonable market demand and to the capacity of gas transportation facilities, and that the subject pool be governed by the general rules and regulations for the prorated gas pools of Southeastern New Mexico insofar as said general rules and regulations are not inconsistent with the special rules and regulations governing the subject pool. Further, the applicant proposes that the allowable production from the pool be allocated among the wells in the pool on a 100% surface acreage basis.

CASE 4041: Application of Tamarack Petroleum Company, Inc. for salt water injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject produced salt water into the Queen formation in the perforated interval from 4955 feet to 5030 feet in its Texaco Moran Well No. 2, located in Unit H of Section 22, Township 19 South, Range 35 East, Pearl Queen Pool, Lea County, New Mexico.

CASE 4042: Application of El Paso Natural Gas Company for an amendment to Order No. R-2948, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2948, which order established a number of non-standard gas promotion units in the Basin-Dakota Gas Pool, Rio Arriba County, New Mexico. Applicant proposes to change the acreage dedication comprising units 12 and 13 of Township 28 North, Range 6 West and Units 16 and 17 of Township 28 North, Range 7 West to comprise the following:

<u>TOWNSHIP 28 NORTH, RANGE 6 WEST</u>		
Unit	Acres	Description
12	320	Section 33: N/2
13	330.71	Section 33: S/2

<u>TOWNSHIP 28 NORTH, RANGE 7 WEST</u>		
Unit	Acres	Description
16	320	Section 35: N/2
17	332.40	Section 35: S/2

CASE 4017: [Continued from the January 8, 1969 Examiner Hearing]  
Application of Corinne Case for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled in the SE/4 of said Section 8. 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 suspension of said well.

CASE 4043: Application of David Fasken for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled 1980 feet from the North line and 2105 feet from the East line of said Section 8. 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 No. 4043 will be consolidated for purposes of hearing with Case No. 4017 which is the application of Corinne Grace for compulsory pooling of the same section.

CASE 4044: Application of Continental Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard gas proration units into one 481-acre unit comprising the E/2 and E/2 W/2 of Section 3, Township 20 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its Reed A-3 Wells Nos. 2 and 3 located in Units H and I, respectively of said Section 3, to be effective as of January 1, 1967. Applicant further seeks authority to produce the allowable assigned to said unit from either of the aforesaid wells in any proportion.

CASE 4045: Application of H & S Oil Company for an amendment to Order No. R-3357, as amended by Order No. R-3357-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3357, as amended by Order No. R-3357-A, which order authorized the H & S West Artesia Unit Waterflood Project. Applicant proposes to substitute the Roach Drilling Company-Leonard Well No. 18 located in Unit D of Section 17 as a water injection well in said project in lieu of the Cities Service-Mell Well No. 17 located in Unit M of Section 8, both in Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.

CASE 4030: (Continued from the January 22, 1969 Examiner Hearing)

Application of Argus Production Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the perforated and open-hole interval from approximately 3554 feet to 3775 feet in its J. T. Lynn A-28 Well No. 3 located 2310 feet from the South line and 1650 feet from the East line of Section 28, Township 22 South, Range 36 East, Jalmat Yates-Seven Rivers Pool, Lea County, New Mexico.

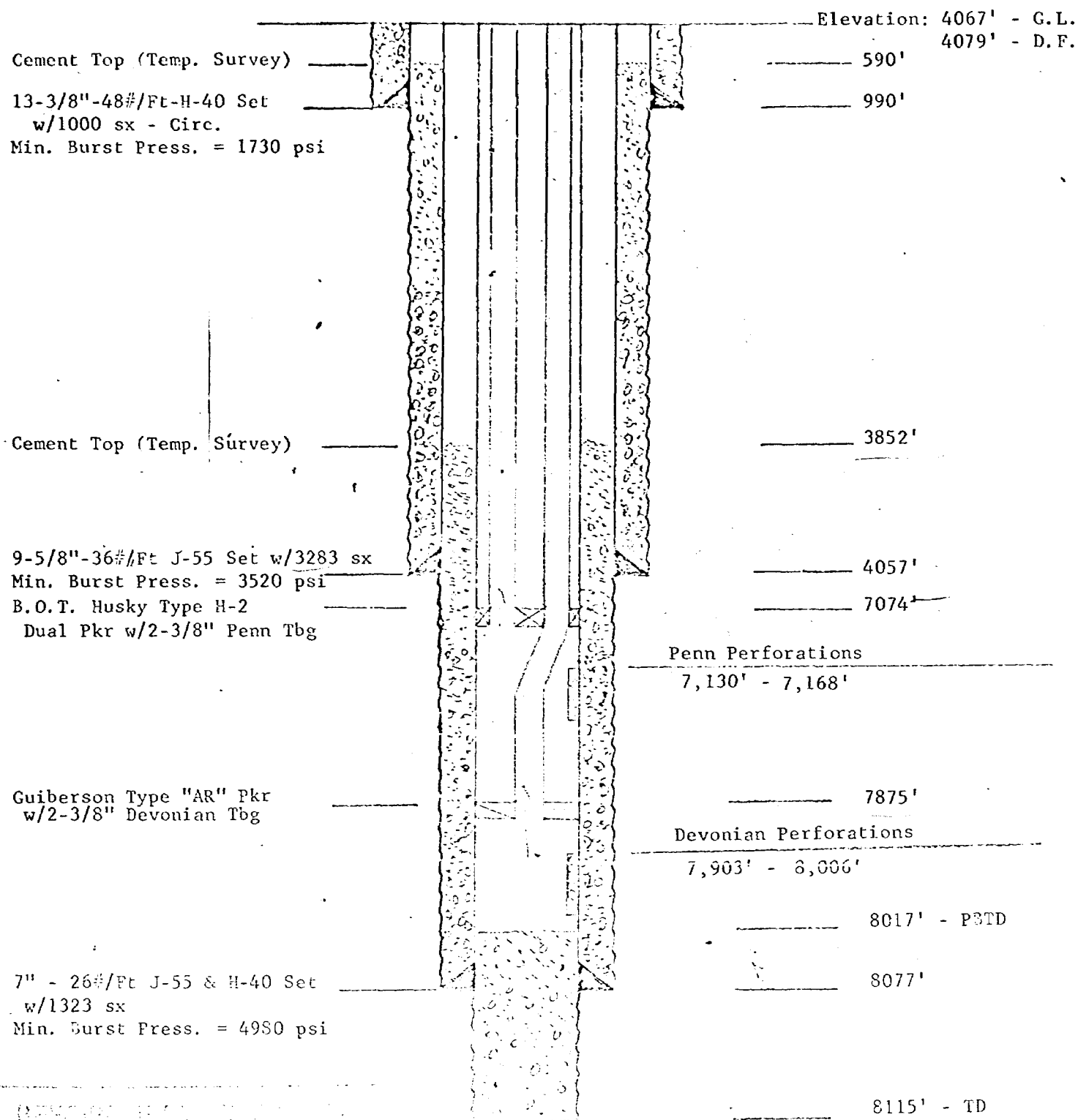
ir/

DIAGRAMMATIC WELL SKETCH

C. L. O'BRIEN WELL NO. 1

LIGHTCAP DEVONIAN & UNDESIGNATED PENN. FIELDS

CHAVES COUNTY, NEW MEXICO



DEVELOPMENT REPORT  
OIL COMPANY  
PAGE NO. 2  
CASE NO. 4036

WELL TEST DATA  
MOBIL OIL CORPORATION'S  
C. L. O'BRIEN WELL NO. 1

DATA	FORMATION	
	DEVONIAN	PENNSYLVANIAN
Oil Production Bbls/24 Hrs.	32	89
Gas Production Mcf/24 Hrs.	279	1,156
Gas-Oil Ratio cf/Bbl.	8,718	12,989
Water Production Bbls/24 Hrs.	0	5 (Load Water)
Oil Gravity °API @ 60° F	48.5	51.8
Flowing Tubing Pressure psig	105	550
Date of Test	2-24-69	2-9-69
24 Hr. S. I. Reservoir Pressure - psig Taken on February 22, 1969	--	2,957

BEFORE EXAMINER USE

OIL COMPANY'S WELL NO. 1

WELL NO. 3

CASE NO. 4036

Handwritten notes and signatures, including "7P47" and "H. J. S. O'Brien".



OIL CONSERVATION COMMISSION  
\_\_\_\_ I \_\_\_\_\_ DISTRICT

1969 JAN 20 AM 8 27

Case 4036

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE Jan. 16, 1969

Re: Proposed NSP \_\_\_\_\_  
Proposed Triple \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NFO \_\_\_\_\_  
Proposed DC X

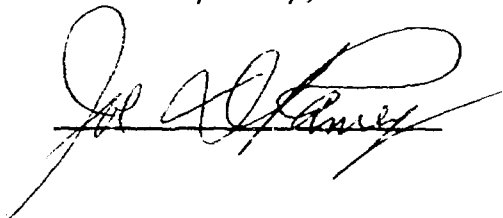
Gentlemen:

I have examined the application dated 1/13/69  
for the Mobil Oil Corp. C. L. O'Brien #1-A 7-8-30  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---J.D.R.  
O.K.---J.W.R.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,



NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
APPLICATION FOR MULTIPLE COMPLETION

Form C-107  
5-1-61

*Case 4036*

Operator <b>Mobil Oil Corporation</b>		County <b>Chaves</b>	Date <b>1-9-69</b>
Address <b>Box 633, Midland, Texas 79701</b>		Lease <b>C. L. O'Brien</b>	Well No. <b>1</b>
Location of Well	Unit <b>A</b>	Section <b>7</b>	Township <b>8-S</b>
			Range <b>30-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES \_\_\_\_\_ NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Undesignated		Lightcap Devonian
b. Top and Bottom of Pay Section (Perforations)	7100-7170		7914-8016
	7130-7168		7914-8016
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | Yes                                 | No                                  |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)   |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Gulf Oil Corp., Box 1938, Roswell, New Mexico 88201

Pan American Petroleum Corp. Box 1540, Midland, Texas 79701

Allied Chemical Corp., Box 2120, Houston, Texas 77001

Shamrock Oil & Gas Corp., Box 631, Amarillo, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_\_. If answer is yes, give date of such notification January 9, 1969.

CERTIFICATE: I, the undersigned, state that I am the Authorized Agent of the Mobil Oil Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DUCKET MAILED

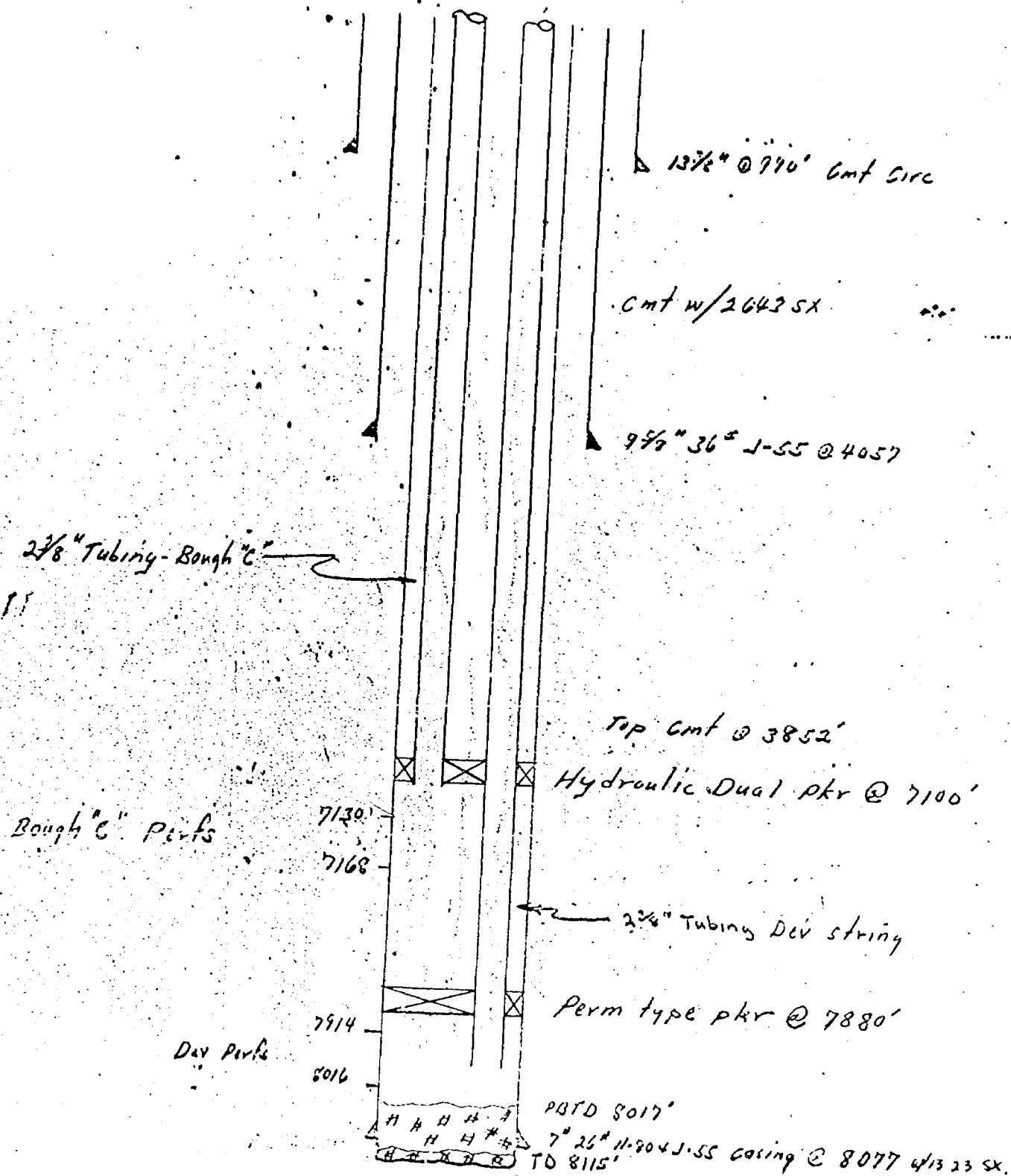
*[Signature]* Date 1-23-69  
Signature

\*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Case 4036

Proposed Completion  
C.L. O'Brien #1

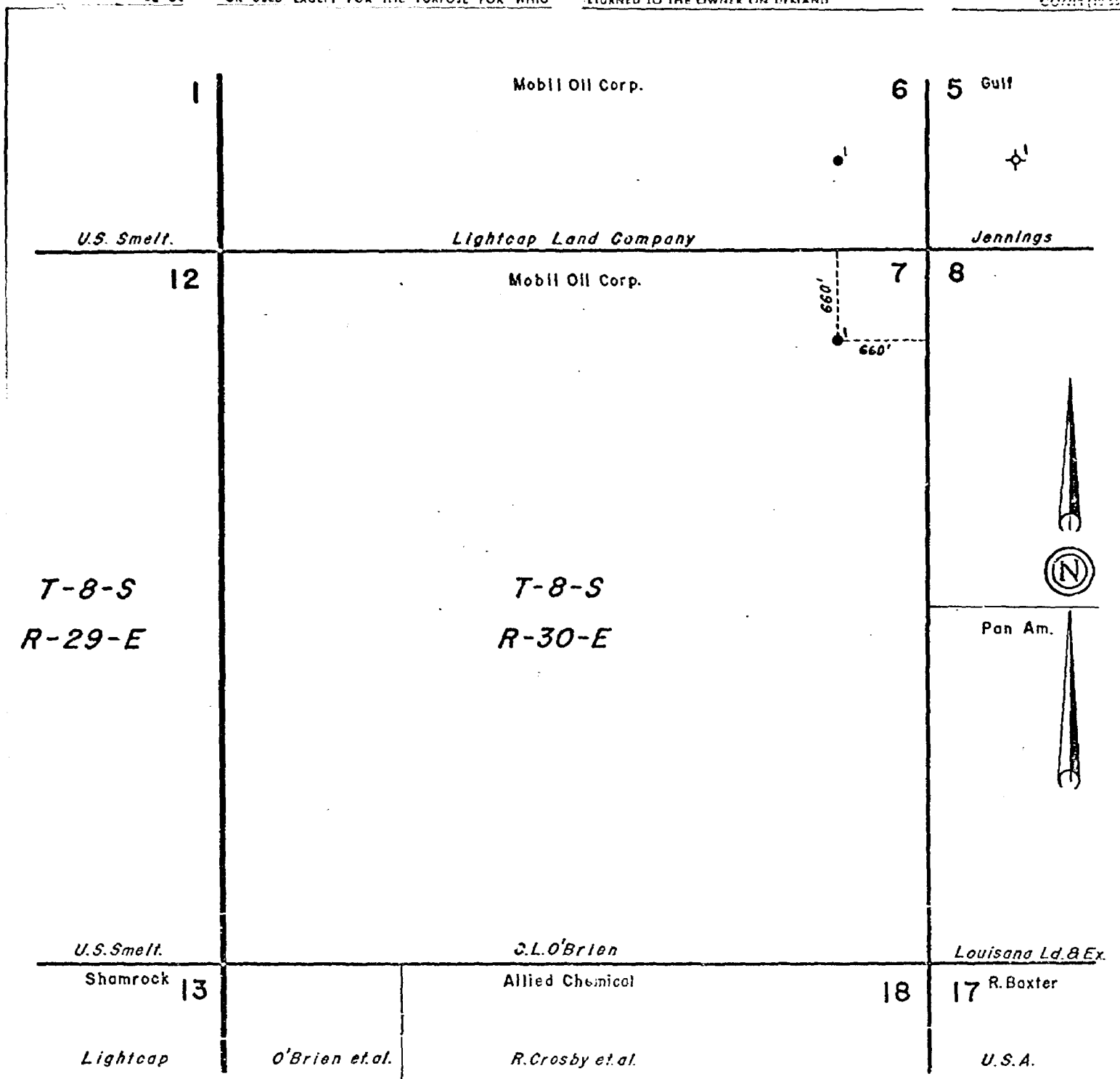


MLC 8-23-68

THIS DRAWING AND ALL INFORMATION THEREON IS THE PROPERTY OF MOBIL OIL CORPORATION AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF (PARTIAL OR COMPLETE) SHALL BE RETURNED TO THE OWNER ON DEMAND.

Case 4036

COM 114 (10-22)



Reserve 200' Around Buildings \_\_\_\_\_ 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 C.L.O'BRIEN

WELL NO. \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_\_\_

DIVISION \_\_\_\_\_ LEASE NO. N.M-1617 B

TOTAL ACRES IN LEASE 640 ACRES COVERED BY PLAT 640

DESCRIPTION Sec. 7, T-8-S, R-30-E

Chaves County, New Mexico

DRAWN G.A. Brewer DATE Jan. 9, 1969 FIELD Lightcap

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. 4036

Order No. R-2696

APPLICATION OF MOBIL OIL CORPORATION  
FOR A DUAL COMPLETION, CHAVES COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
February 26, 1969, at Santa Fe, New Mexico, before Examiner  
Elvis A. Utz.

NOW, on this day of February, 1969, 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,  
seeks authority to complete its C. L. O'Brien  
Well No. 1, located in Unit A of Section 7, Township

8 South, Range 30 East, NMPM, Chaves County, New  
Mexico, as a dual completion (conventional) oil

~~combination~~ to produce ~~gas~~  
~~combination~~

from the Lightcap-Pennsylvanian Pool through and the  
Lightcap (Devonian) Pool through parallel strings of 2 3/8 -inch  
tubing, with separation of the zones by a packer set at approxi-  
mately 7875 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to complete its C. L. O'Brien Well No. 1, located in Unit A of Section 7, Township 8 ~~South~~ North, Range 30 ~~East~~ West, NMPM, Chaves County, New Mexico, as a dual completion (conventional) oil ~~(combination)~~ to produce ~~gas~~ ~~(combination)~~ from the Lightcap-Pennsylvanian Pool ~~through~~ and the Lightcap (Devonian) Pool through parallel strings of 2 3/8 -inch tubing, with separation of the zones by a packer set at approximately 7875 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage ~~zone-segregation~~ tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Lightcap (Devonian) Pool. ~~Deliverability~~

(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.