

Case Number

4892

Application  
Transcripts.

Small Exhibits

ETC.

dearnley, meier & mc cormick

209 SIMMS BLDG., P.O. BOX 1092, PHONE 243-6691, ALBUQUERQUE, NEW MEXICO 87103  
1216 FIRST NATIONAL BANK BLDG. EAST ALBUQUERQUE, NEW MEXICO 87108

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
CONFERENCE ROOM, STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO  
January 17, 1973

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Oil Corporation ) Case No. 4892  
for a dual completion and water )  
injection, Lea County, New Mexico. )

BEFORE: Elvis A. Utz  
Examiner

TRANSCRIPT OF HEARING

1 MR. UTZ: Case 4892.

2 MR. CARR: Case 4892, Application of Mobil Oil  
3 Corporation for a dual completion and water injection, Lea  
4 County, New Mexico.

5 MR. SPERLING: James E. Sperling of Modrall,  
6 Sperling, Roehl, Harris & Sisk, Albuquerque, appearing for  
7 the applicant.

8 We have one witness, Mr. John Seerey.

9 MR. UTZ: Are there other appearances in this  
10 case?

11 (No response.)

12 MR. UTZ: We may proceed.

13 \* \* \* \* \*

14 JOHN SEEREY,

15 having been first duly sworn according to law, upon his oath,  
16 testified as follows:

17 DIRECT EXAMINATION

18 BY MR. SPERLING

19 Q Please state your name, your place of residence, your  
20 employer and the capacity in which you are employed.

21 A My name is John Seerey, I am with Mobil Oil  
22 Corporation from Midland, producing office, Midland,  
23 Texas. I'm working in the capacity of a proration  
24 engineer.

25 Q Mr. Seerey, have you on any previous occasions testified

dearnley, meier & mc cormick

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1 before the Commission so that your qualifications are  
2 a matter of record?  
3 A Yes, I have.  
4 Q Are you familiar with what is sought by this application  
5 and the area with which it's concerned?  
6 A Yes, I am.  
7 MR. SPERLING: Are Mr. Seerey's qualifications  
8 acceptable, Mr. Examiner?  
9 MR. UTZ: Yes, sir, they are.  
10 Q (By Mr. Sperling) Mr. Seerey, would you please state  
11 in general terms what Mobil seeks in the filing of this  
12 application?  
13 A Mobil Oil Corporation is seeking approval for the dual  
14 completion of their Carson-Watson Well No. 13 in the  
15 Tubb Gas Pool and the Drinkard Pool.  
16 Q Now, would you please refer to what has been marked as  
17 Exhibit 1 and explain what that is intended to show?  
18 A Exhibit 1 is an area map, showing Mobil's Carson-Watson  
19 Com Unit outlined in yellow. The Carson-Watson Com  
20 Well No. 13 is shown marked by a red arrow and is  
21 located 1,909 feet from the east line and 2,015 feet  
22 from the north line of Section 33, Township 21 south,  
23 range 37 east, Lea County, New Mexico.  
24 This map further shows the other leases and wells  
25 within a one and one-half mile radius of the well of

1 this application.

2 The Carson-Watson Com Well No. 13 was completed  
3 in September 1947, as the E. O. Carson Well No. 13 in  
4 the Brunson-Ellenburger Pool.

5 Q Now, would you identify Exhibit 2 for us, please?

6 A Exhibit 2 is a diagramatic well bore sketch of the  
7 subject well. This sketch shows that the well was  
8 drilled to a 7,599 foot total depth, was cased with  
9 13 3/8 inch surface casing, set to 304 feet and cemented  
10 with 300 sacks; eight 5/8 inch casing was set to  
11 3,810 feet and cemented with 875 sacks; and five 1/2  
12 inch casing was set to 7,599 feet and was cemented with  
13 855 sacks.

14 The E. O. Carson Well No. 13 continued to produce  
15 from the Brunson-Ellenburger Pool as a single  
16 completion until it reached its economic limit in  
17 November, 1972.

18 In November, 1972, the Carson-Watson Com No. 13  
19 was plugged back to 6,730 feet. The Drinkard Pool was  
20 perforated from 6,482 feet to 6,611 feet in the interval  
21 being water flooded by Gulf's Central Drinkard Unit.

22 And the perforations were treated with 5,000  
23 gallons of 15 percent NE acid. A Baker Model "D"  
24 nickel-plated packer and nickel-plated seal assembly  
25 was set in the 5 1/2 inch casing at 6,440 feet.

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1 The Tubb gas formation was perforated from 5,950  
2 feet to 6,003 feet, 6,015 feet to 6,033 feet, 6,100  
3 feet to 6,135 feet, 6,157 feet to 6,175 feet, and 6,187  
4 feet to 6,230 feet with 167 holes.

5 The new perforations in the Tubb were treated with  
6 8,000 gallons of 15 percent NE acid.

7 Q Now, would you refer to Exhibit Number 3, please?

8 A Exhibit 3 is a copy of the Form C-101 filed and approved  
9 for the Carson-Watson Com Well No. 13. This form shows  
10 that the well was to be completed as a gas well in the  
11 Tubb Gas Pool, and as a water injection well in the  
12 Drinkard Pool for the Gulf-operated Central Drinkard  
13 Unit.

14 Q Exhibit 4?

15 A Exhibit 4 is a copy of the allowable assigned by the  
16 Commission to the Carson-Watson Com No. 13 for the  
17 production of condensate from the Tubb Gas Pool.

18 Q Exhibit 5?

19 A Exhibit 5 is a copy of the packer leakage test conducted  
20 on the subject well by Gulf on December 18 and 19,  
21 1972. It is our understanding that the test procedure  
22 was verified by Gulf with the Commission's District I  
23 Office prior to the performance of the test; and as  
24 shown on Exhibit 5, was accepted and approved by the  
25 Commission's District I Office upon completion.

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1 Q Now, identify Exhibit 6, please.

2 A Exhibit 6 is a copy of the Form C-197, Application for  
3 Multiple Completion, for the Carson-Watson Com 13 as  
4 filed with the Commission on December 19, 1972.

5 This form, again, showed that the subject well was  
6 to be completed as a dual with the production of gas  
7 from the Tubb Gas Pool and for use as a water injection  
8 well in the Drinkard Pool by the Central Drinkard Unit.

9 The signed waivers of the offset operators were  
10 requested and received. Copies of these signed waivers  
11 are attached to Exhibit 6.

12 Q Exhibit 7 appears to be a copy of the electric log run  
13 on the well, is that correct?

14 A Yes, the tops of the formations have been marked on the  
15 logs.

16 Q What is the present status of the water flooded project  
17 in the Drinkard, Central Drinkard Unit?

18 A The Central Unit's efforts toward waterflooding the  
19 Drinkard is just now expanding past the pilot stage.  
20 The pilot waterflood, which began in September of  
21 1967, has demonstrated that a satisfactory oil bank can  
22 be built and that adequate injectivity can be attained.

23 Referring back to Exhibit 1, the aerial map, it  
24 can be seen that the Carson-Watson Com 13 must be  
25 utilized for water injection in order to complete the

dearnley, meier &amp; mc cormick

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1 five-spot pattern of waterflooding in the Gulf Central  
2 Drinkard Unit.

3 Q So, it's Mobil's intention, subject to the approval of  
4 the Commission, to produce gas from the Tubb zone; and  
5 as a part of the Central Drinkard Unit waterflood  
6 project, to inject water through Gulf as operator in  
7 the Drinkard?

8 A Yes, it is. And Mobil respectfully requests that the  
9 Commission grant this dual completion.

10 Q Do you have anything further?

11 A No, sir.

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

13 At this time, I offer Exhibits 1 through 7.

14 MR. UTZ: Without objection, Exhibits 1 through 7  
15 will be entered into the record of this case.

16 CROSS-EXAMINATION

17 BY MR. UTZ

18 Q The Drinkard Zone here is an old waterflood?

19 A It's a new waterflood that's just now going past the  
20 pilot stage, it's depleted primary zone, rather an  
21 unsuccessful waterflood at that, I believe.

22 Q But the waterflood itself was approved by order, is  
23 that correct?

24 A Yes, it was.

25 Q Is this the only injection well?



1 A No, sir. On Exhibit 1, you will note the injection wells  
2 are indicated by the symbol of an arrow with a "W" by  
3 it for water injection. It's on a five-spot pattern.

4 The original piloting, I believe, was in the  
5 vicinity of the southwest quarter of Section 28 up  
6 there, and now it is extending on to the south, to the  
7 center of Section 33 where we find we have a  
8 requirement to turn over the well for the fifth spot.

9 Q And this is a new injection well?

10 A Yes, sir, it is.

11 Q The well is already completed in the Tubb?

12 A Yes, it is.

13 MR. UTZ: Are there any other questions of the  
14 witness?

15 MR. STAMETS: Yes.

16 CROSS-EXAMINATION

17 BY MR. STAMETS

18 Q Mr. Seerey, if I understand this properly, when the  
19 well is completed, there will be two operators; Mobil  
20 operating the gas and Gulf operating the injection well?

21 A That's correct.

22 Q And there will be two different lease names and two  
23 different well numbers on the same well?

24 A That is correct.

25 Q And Gulf will report the water injection and Mobil will

1 report the gas?

2 A This will be called the Gulf Central Drinkard Unit Well  
3 No. 42. Mobil will call it the Mobil Carson-Watson  
4 Well No. 13.

5 MR. STAMETS: That's all.

6 MR. UTZ: Are there other questions of the witness?  
7 (No response.)

8 MR. UTZ: I call for statements in the case.

9 MR. CARR: We have a letter from Gulf Oil  
10 Corporation indicating that they have no objection to the  
11 granting of this application.

12 We've also been supplied this morning with a  
13 waiver from Amerada Hess Corporation and a letter from  
14 Mobil Oil indicating that Amoco Production Company has no  
15 objection.

16 MR. UTZ: Thank you, sir.

17 Are there other statements?

18 (No response.)

19 MR. UTZ: We will take the case under advisement.  
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dearnley, meier & mc cormick

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

3 I, JOHN DE LA ROSA, a Notary Public, in and for the  
4 County of Bernalillo, State of New Mexico do hereby certify  
5 that the foregoing and attached Transcript of Hearing before  
6 the New Mexico Oil Conservation Commission was reported by  
7 me; and that the same is a true and correct record of the  
8 said proceedings to the best of my knowledge, skill and  
9 ability.

10  
11 *John De la Rosa*  
12 NOTARY PUBLIC

13  
14 My Commission Expires:  
15 August 4, 1976

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19  
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21 I do hereby certify that the foregoing is  
22 a complete record of the proceedings in  
23 the Examiner hearing of Case No. *4-892*,  
24 heard by me on *April 17*, 19*73*.  
25 *[Signature]*, Examiner  
New Mexico Oil Conservation Commission

dearnley, meier & mc cormick

200 SIMMS BLDG., P.O. BOX 1092, PHONE 243-6601, ALBUQUERQUE, NEW MEXICO 87103  
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I N D E X

WITNESS

JOHN SEEREY

Direct Examination by Mr. Sperling

Cross-Examination by Mr. Utz

Cross-Examination by Mr. Stamets

E X H I B I T S

ADMITTED

OFFERED

Exhibit Number 1

Exhibit Number 2

Exhibit Number 3

Exhibit Number 4

Exhibit Number 6

Exhibit Number 6

Exhibit Number 7

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## OIL CONSERVATION COMMISSION

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

GOVERNOR  
BRUCE KIN  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMISTEAD  
MEMBER

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

January 29, 1973

Mr. James E. Sperling  
Modrall, Sperling, Roehl & Harris  
Attorneys at Law  
Public Service Building  
Post Office Box 2168  
Albuquerque, New Mexico 87103

Re: Case No. 4892

Order No. R-4472

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

Mr. John Seerey, Mobil Oil Corporation, Midland, Texas

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. 4892  
Order No. R-4472

APPLICATION OF MOBIL OIL CORPORATION  
FOR A DUAL COMPLETION AND WATER  
INJECTION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 17, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 29th day of January, 1973, 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 Carson Watson Com Well No. 13, located in Unit G of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

(3) That the mechanics of the proposed dual completion and water injection 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 Carson Watson Com Well No. 13, located in Unit G of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion

-2-

Case No. 4892  
Order No. R-4472

(conventional) to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

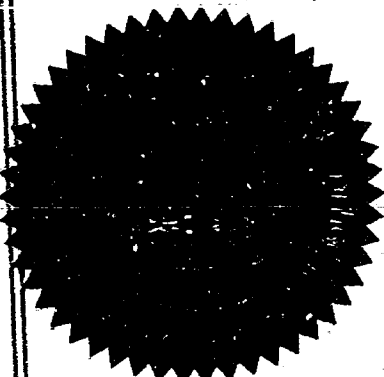
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Shut-in Pressure Test Period for the Tubb Gas 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

  
*Bruce King*  
BRUCE KING, Chairman

*Alex J. Armijo*  
ALEX J. ARMIJO, Member

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

S E A L

dr/

Case 4892 Grant Mobil a Dual completion  
for their Carson-Watson Comb #13  
2051/N + 1909/E lines 5, sec. 33, 215-37E.  
(unit ~~2051~~ G). This is an old well  
completed in the Carson-Edenburger  
pool & is P.B. to the Drinkall pool  
in 11-72. Grant them permission  
to inject H<sub>2</sub>O thru 2 1/2" Plaster  
lined (internally) under a packer  
set at approx. 6440' into the  
Drinkall formations and permission  
to produce Gas from the Tubb Pool  
thru perf. 5950-6230 and 2 1/2"  
hydraulic tubing. require packer  
leakage test on anniversary  
of Tubb. S.T. pressure test.

Grant O'Neil



DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 17, 1973

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

The following cases will be heard before Richard L. Stamets, Examiner, or Elvis A. Utz, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for February, 1973 from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
- (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico for February, 1973.

CASE 4875: (Continued from December 19, 1972 Examiner Hearing)

Application of ESH Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Lower San Andres formation in the perforated interval from 5144 feet to 5170 feet in its Hobbs State Well No. 5 located in Unit F of Section 29, Township 18 South, Range 38 East, Hobbs Field, Lea County, New Mexico.

CASE 4860: (Continued from the December 19, 1972 Examiner Hearing)

Application of Craig Folsom for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well to test the Queen formation at an unorthodox oil well location 1340 feet from the South line and 1300 feet from the East line of Section 12, Township 13 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico.

CASE 4482: (Reopened) (Continued from the January 3, 1973 Examiner Hearing)

In the matter of Case 4482 being reopened pursuant to the provisions of Order No. R-4093-A, which order continued the special rules and regulations for the Parkway-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said special pool rules should be further extended.

CASE 4892: Application of Mobil Oil Corporation for a dual completion and water injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Carson Watson Com Well No. 13 located in Unit G of Section 33, Township 21 South, Range 37 East, in such a manner as to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

CASE 4893: Application of Continental Oil Company for three non-standard proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the following non-standard gas proration units, Eumont Gas Pool, Lea County, New Mexico:

A 200-acre unit comprising the N/2 NE/4, SE/4 NE/4, and N/2 SE/4 of Section 18, Township 21 South, Range 36 East, to be dedicated to the Meyer A-1 Well No. 6 located in Unit B of said Section 18; a 320-acre unit comprising the S/2 of Section 12, Township 19 South, Range 36 East, to be dedicated to the State KN-12 Well No. 1 located in Unit P of said Section 12; and a 158.9-acre unit comprising the N/2 S/2 of Section 7, Township 19 South, Range 37 East, to be dedicated to the State A-7 Com No. 1 located in Unit I of said Section 7.

CASE 4894: Application of Felmont Oil Corporation for a dual completion, contraction of vertical limits, creation of a new pool, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, to exclude the producing interval from 8894 feet to 8914 feet as found in its Aaron Unit Well No. 1, located in Unit N of Section 11, Township 18 South, Range 26 East, and to re-designate said Atoka-Pennsylvanian Gas Pool as the Atoka-Lower Pennsylvanian Gas Pool, and for the creation of a new pool for the above-described producing interval to be designated Atoka-Upper Pennsylvanian Gas Pool. Applicant also seeks the adoption of special rules for said proposed new pool similar to the pool rules for the presently existing Atoka-Pennsylvanian Gas Pool; applicant further seeks approval for the dual completion of the above-described well to produce from the afore-said two pools.

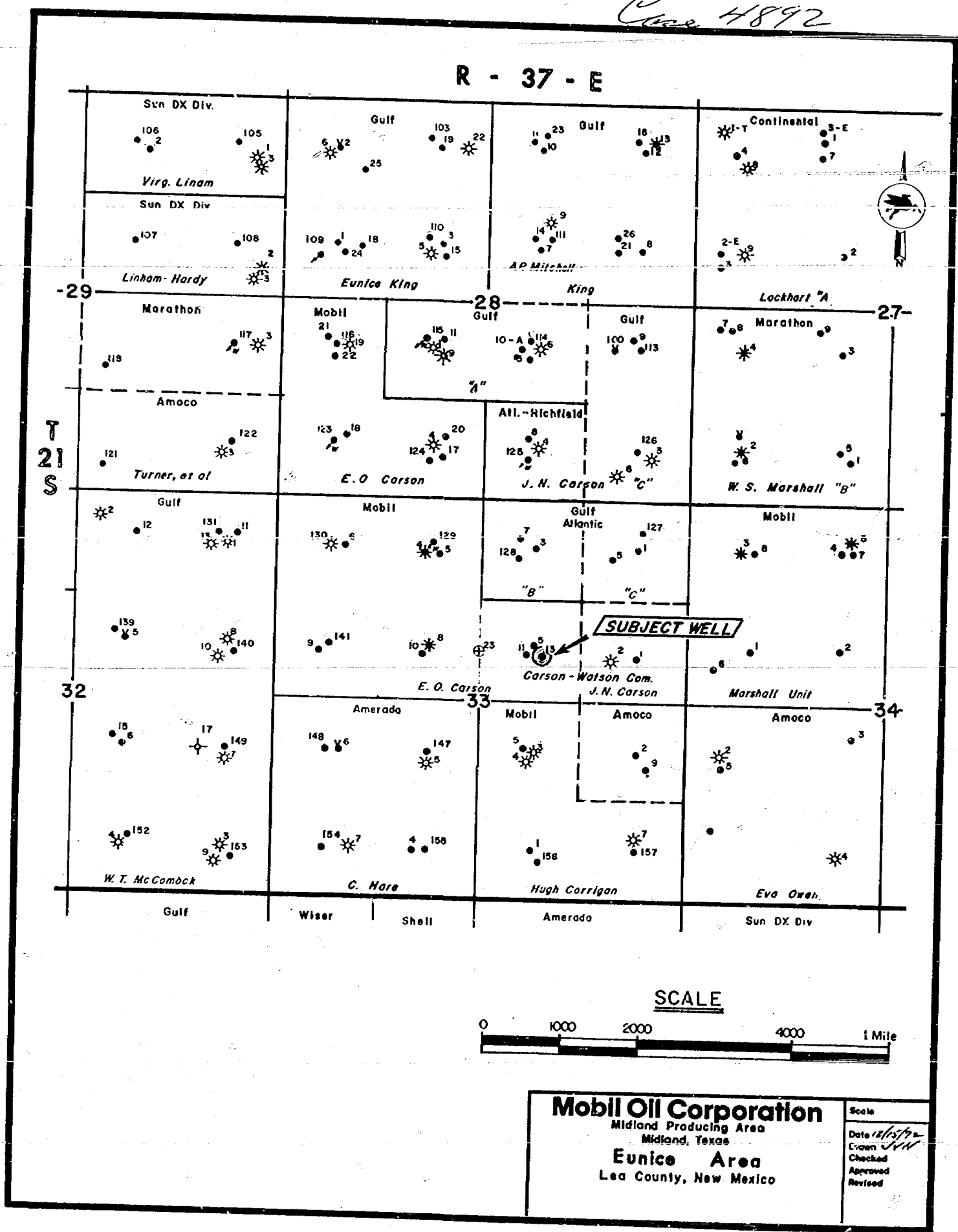
CASE 4895: Application of Llano, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Grama Ridge Morrow Unit Area comprising 1,280 acres, more or less, of State Lands in Townships 21 and 22 South, Range 34 East, Lea County, New Mexico.

CASE 4896: Application of Llano, Inc. for gas injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject gas for secondary recovery and gas storage purposes in the Morrow formation through its State GRA Well No. 1 located in Unit N of Section 3, Township 22 South, Range 34 East, and its State GRB Well No. 1 located in Unit L of Section 34, Township 21 South, Range 34 East, Grama Ridge-Morrow Gas Pool, Lea County, New Mexico.

CASE 4890: (Continued from the January 3, 1973 Examiner Hearing)

Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its Mobil State Well No. 1 located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico.

Case 4892



# Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT  
MIDLAND DISTRICT

P. O. Drawer 1150  
Midland, Texas 79701

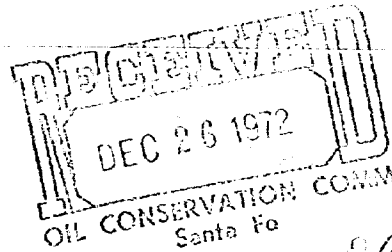
W. B. Hopkins  
DISTRICT MANAGER

J. A. Hord  
DISTRICT EXPLORATION  
MANAGER

J. L. Pike  
DISTRICT PRODUCTION  
MANAGER

M. B. Moseley  
DISTRICT SERVICES MANAGER

December 22, 1972



Oil Conservation Commission  
State of New Mexico  
P. O. Box C-121-A  
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Re: Request for Multiple Completion  
Carson Watson Com. No. 13  
Tubb Gas and Drinkard Fields  
Lea County, New Mexico

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Mobil Oil Corporation is requesting multiple completion authority for the subject well. We have no objection to the granting of this application for the above well which is located:

2015' FNL and 1909' FEL, Section 33,  
T-21S, R-37E, Lea County, New Mexico

Executed this 22nd day of December, 1972.

Yours very truly,

GULF OIL CORPORATION

BY W. C. Palmer  
W. C. PALMER  
District Engineer

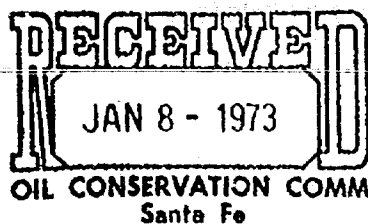
FWT:jmc



A DIVISION OF GULF OIL CORPORATION

DOCKET MAILED

Date 1-5-73



W-A-I-V-E-R

Amerada Hess Corporation, operator of offset lease, have no objection to the completion of Mobil Oil Corporation Carson Watson Com. #13 as a multiple completion in Tubb Gas and Drinkard water injection as stated in their application dated December 19, 1972.

*Region Technical Services Manager*  
*L.J. Crandal*  
\_\_\_\_\_  
Signature and Title

Amerada Hess Corporation  
Box 2040  
Tulsa, Oklahoma 74102



J. C. Burton  
Division Engineer

January 3, 1973

File: AWR-986.51NM-1803

Re: Multiple Completion Waiver  
Mobil's Carson Watson COM No. 13  
Tubb and Drinkard Fields  
Lea County, New Mexico

New Mexico Oil Conservation Commission  
P. O. Box C-121-A  
Santa Fe, New Mexico

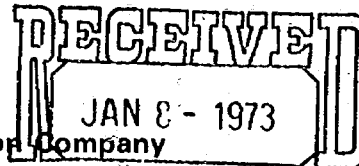
Gentlemen:

We are in receipt of a copy of Mobil Oil Corporation's Form C-107 Application for Multiple Completion for their Carson Watson COM #13, Tubb Gas and Drinkard Fields, Lea County, New Mexico.

As an offset operator, Amoco Production Company has no objection to this completion for water injection into the Drinkard zone and hereby waives notice and hearing.

*J. C. Burton*

cc: Mobil Oil Corporation  
P. O. Box 633  
Midland, Texas 79701



Amoco Production Company

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

OIL CONSERVATION COMM.  
Santa Fe

4892

# Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT  
MIDLAND DISTRICT

P. O. Drawer 1150  
Midland, Texas 79701

W. B. Hopkins  
DISTRICT MANAGER  
J. A. Hord  
DISTRICT EXPLORATION  
MANAGER  
J. L. Pike  
DISTRICT PRODUCTION  
MANAGER  
M. D. Moseley  
DISTRICT SERVICES MANAGER

December 22, 1972

Oil Conservation Commission  
State of New Mexico  
P. O. Box C-121-A  
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Re: Request for Multiple Completion  
Carson Watson Com. No. 13  
Tubb Gas and Drinkard Fields  
Lea County, New Mexico

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Mobil Oil Corporation is requesting multiple completion authority for the subject well. We have no objection to the granting of this application for the above well which is located:

2051  
2025' FNL and 1909' FEL, Section 33,  
T-21S, R-37E, Lea County, New Mexico

Executed this 22nd day of December, 1972.

Yours very truly,

GULF OIL CORPORATION

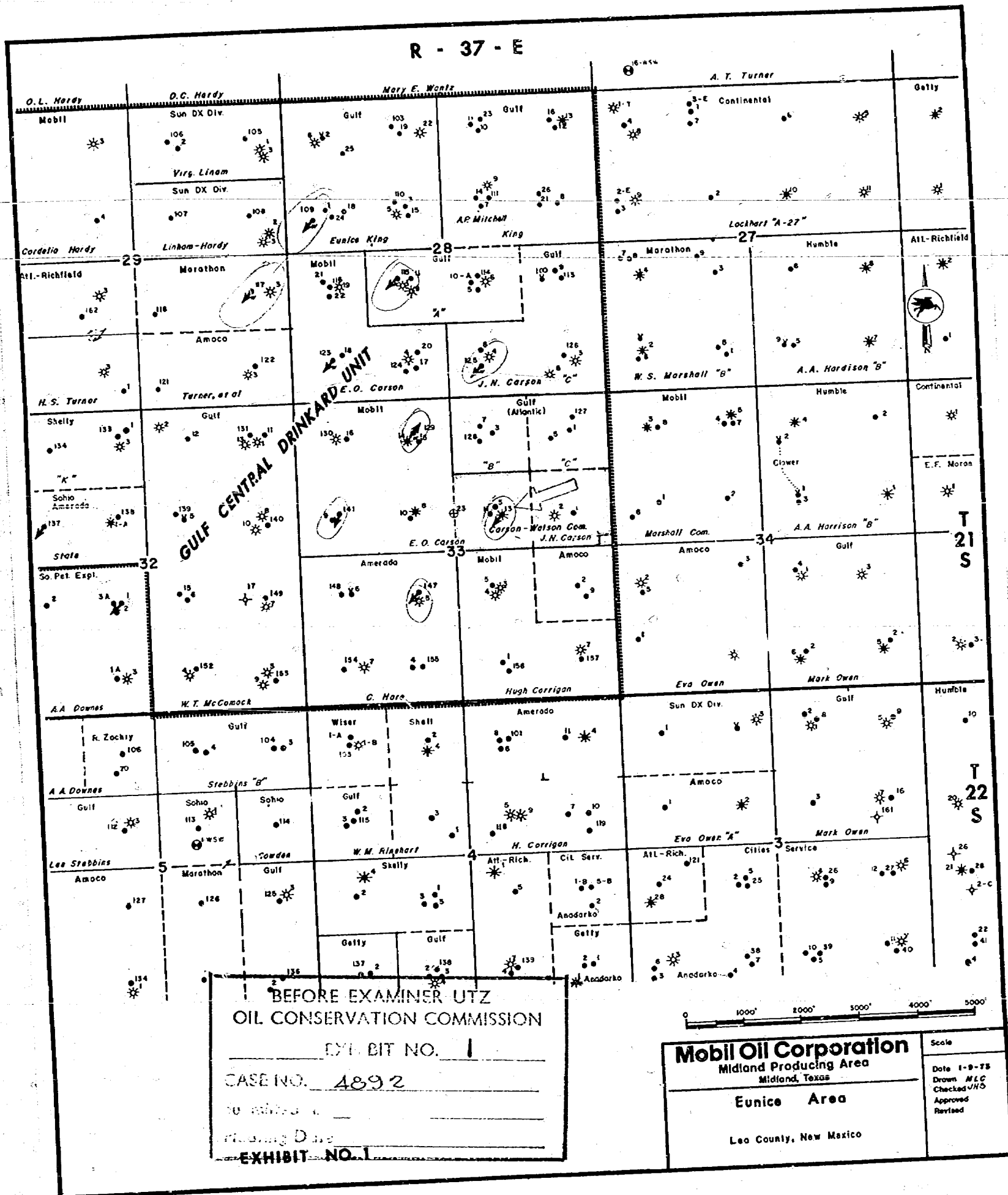
RECEIVED			
OPERS. ENGINEERING			
DEC 23 1972			
OE	PROR.	CIRC.	
PE		XC's	
FE		FILE	

FWT:jmc

BY W. C. Palmer  
W. C. PALMER  
District Engineer



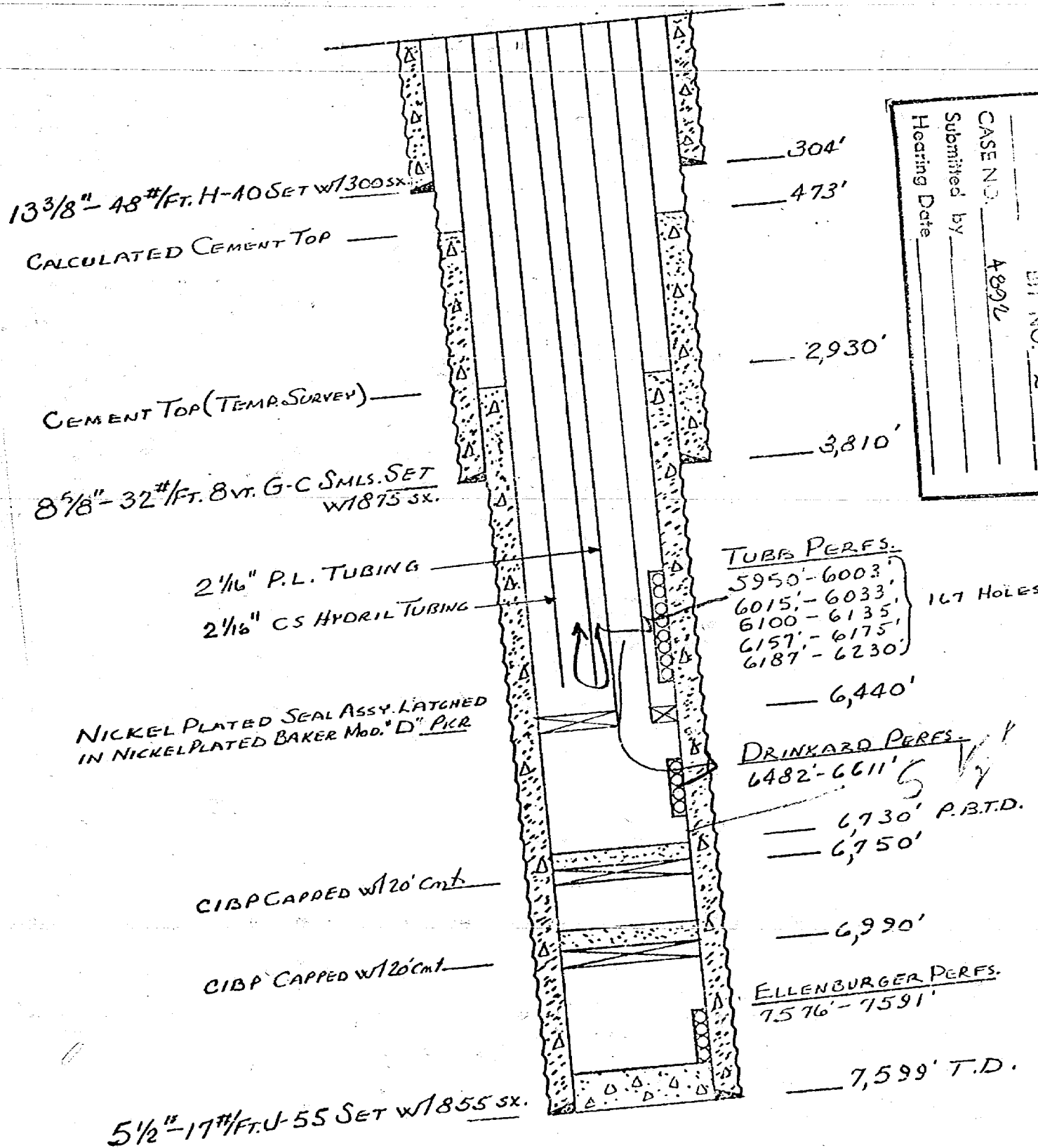
R - 37 - E





DIAGRAMMATIC WELL SKETCH  
CARSON-WATSON COMM. WELL NO. 13  
TURB. (GAS) & DRINKARD POOL  
LEA COUNTY, NEW MEXICO

Elev. = 3461'



PRODUCTION PERMIT  
 OIL & GAS COMMISSION  
 CASE NO. 4892  
 BIT NO. 2  
 Submitted by \_\_\_\_\_  
 Hearing Date \_\_\_\_\_

1-8-73  
 1EW

NEW MEXICO  
OIL CONSERVATION COMMISSION  
BOX 1980  
HOBBS, NEW MEXICO

September Thru  
December, 1972

No. 1547L

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE November 29, 1972

PURPOSE: CONDENSATE ALLOWABLE

A condensate allowable in the amount of 500 barrels is hereby assigned  
the Mobil Oil Corporation, Carson Watson Com., 13-G, 33-21-37, Tubb Gas  
Pool, for the months of November and December, 1972.

BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION	
EXHIBIT NO.	<u>4</u>
CASE NO.	<u>4892</u>
Submitted by	
Hearing Date	

*P-11-30-72*  
*copy sent to R.H. Cummins*  
*Bill Reeves*

OIL CONSERVATION COMMISSION

JDR/eb

Mobil Oil Corp.

T.N.M.

*Joe A. Remy*  
\_\_\_\_\_  
Supervisor, District No. 1 *6.5*

OPERATOR'S COPY

cc: Mobil Oil Co., attn Bill Cummins, Box 1036, Lovington, N.M. 88260

This form is to be used for reporting packer leakage tests in Northeast New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION  
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Mobil Oil Corp. Gulf Oil Corp.		Lease No. Carson 1443/2344 (5/11)		Well 13 No. 113	
Location of Well	Unit G	Sec 33	Twp 21S	Rge 37E	County Lea
Name of Reservoir or Pool		Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbz or Gas)	Choke Size
Upper Compl	Tubb	Gas	Flow	Tbz	2 1/2" H
Lower Compl	Water Injection	-	-	Tbz	-

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 9:30 a.m., 12-18-72

Well opened at (hour, date): 9:30 a.m., 12-19-72

	Upper Completion	Lower Completion
Indicate by ( X ) the zone producing.....	X	*
Pressure at beginning of test.....	948	Vacuum
Stabilized? (Yes or No).....	Yes	Yes
Maximum pressure during test.....	948	Vacuum
Minimum pressure during test.....	25	"
Pressure at conclusion of test.....	320	"
Pressure change during test (Maximum minus Minimum).....	923	-
Was pressure change an increase or a decrease?.....	Deccr.	-
Well closed at (hour, date): 9:30 a.m., 12-20-72	Total Time On Production 8 1/2 hrs	
Oil Production 3 bbls; Grav. 44.0	Gas Production 192.0 MCF; GOR 192,000	

During Test: 1 bbls; Grav. 44.0 ; During Test 192.0 MCF; GOR 192,000

Remarks \*Water was injected continuously during test.

FLOW TEST NO. 2

	Upper Completion	Lower Completion
Well opened at (hour, date):		
Indicate by ( X ) the zone producing.....		
Pressure at beginning of test.....	935	Vacuum
Stabilized? (Yes or No).....		
Maximum pressure during test.....		
Minimum pressure during test.....		
Pressure at conclusion of test.....		
Pressure change during test (Maximum minus Minimum).....		
Was pressure change an increase or a decrease?.....		
Well closed at (hour, date)	Total time on Production	
Oil Production	Gas Production	
During Test: bbls; Grav.	During Test MCF; GOR	

Remarks

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

Approved \_\_\_\_\_ 19 \_\_\_\_\_  
New Mexico Oil Conservation Commission

Operator Gulf Oil Corporation

By J. W. Davis

Title Well Tester

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

Form C-107  
5-1-61

Operator <b>Mobil Oil Corporation</b>		County <b>Lea</b>		Date <b>December 19, 1972</b>
Address <b>P. O. Box 633, Midland, Texas 79701</b>		Lease <b>Carson Watson Com.</b>		Well No. <b>13</b>
Location of Well	Unit <b>G</b>	Section <b>33</b>	Township <b>21-S</b>	Range <b>37-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	<b>Tubb</b>		<b>Drinkard</b>
b. Top and Bottom of Pay Section (Perforations)	<b>5950-6230</b>		<b>6482-6611</b>
c. Type of production (Oil or Gas)	<b>Gas</b>		<b>Injection in the</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>		<b>Central Drinkard Unit operated by Gulf Oil Cor.</b>

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 checked="" type="checkbox"/>	<input 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. Waivers will be furnished direct to Santa Fe.
<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 112-1.)

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

**Gulf Oil Corporation, Box 1150, Midland, Texas 79701**

**Amoco Production Company, Box 1725, Midland, Texas 79701**

**Amerada Hess Corporation, Box 2040, Tulsa, Oklahoma 74102**

BEFORE EXAMINER UTZ
NEW MEXICO OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>6</u>
CASE NO. <u>4892</u>
Submitted by _____
Hearing Date _____

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 **December 19, 1972**.

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.

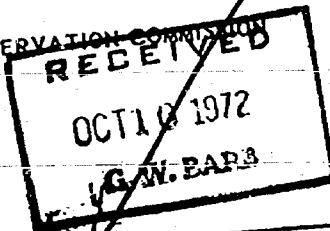
Signature

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 perforation unit in one or more of

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

NEW MEXICO OIL CONSERVATION COMMISSION



Form C-101  
Revised 1-1-65

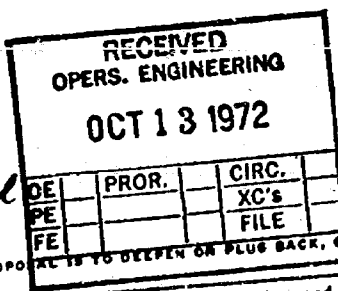
5A. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.
7. Unit Agreement Name Carson Watson Com
8. Farm or Lease Name
9. Well No. 13
10. Field and Pool or Wilcox Jubb
12. County Lea
19. Proposed Depth 6780
19A. Formation Tubb
20. Rotary or C.T. Rotary
22. Approx. Date Work will start

18. Type of Work DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	
1. Name of Operator Mobil Oil Corporation	
3. Address of Operator P. O. Box 633, Midland, Texas 79701	
4. Location of Well UNIT LETTER G LOCATED 1909 FEET FROM THE East LINE AND 2051 FEET FROM THE North LINE OF SEC. 33 TWP. 21S RGE. 37E NMPM	
21. Elevations (Show whether D.F., R.T., etc.) 3461 - Ground	21A. Kind & Status Plug. Bond On file
21B. Drilling Contractor	

PROPOSED CASING AND CEMENT PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT

This well is presently completed in the Brunson (Ellenburger) Pool as Mobil's E. O. Carson #13. Permission is requested to plug and abandon the Ellenburger, plug back to and complete as a gas well in the Tubb formation. Gulf Oil Corporation will also complete this well as a water injection well in the Drinkard for the Central Drinkard Unit. Dual completion papers will be filed by either Mobil or Gulf at the appropriate time.

**NOTE:**  
No allowable will be assigned to this well until the Comm. approves a new standard unit. This could take 30 days or more.



Dist: M.W. Norris  
G.W. Barb-Orig  
A.D. Alcott  
R.H. Cummings  
Chris Zucker  
Proration  
10-13-72

THIS COPY FOR

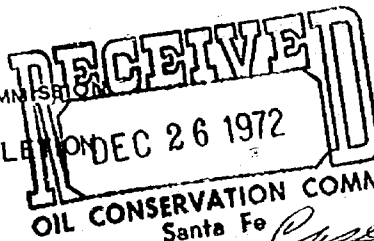
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed A.D. Bond Title Proration Staff Assistant Date October 10, 1972

APPROVED BY John Runyan TITLE Geologist DATE OCT 10 1972

CONDITIONS OF APPROVAL, IF ANY:

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



Form C-107  
5-1-61

*Set for hearing*

*Case 4892*

Operator <b>Mobil Oil Corporation</b>		County <b>Lea</b>	Date <b>December 19, 1972</b>
Address <b>P. O. Box 633, Midland, Texas 79701</b>		Lease <b>Carson Watson Com.</b>	Well No. <b>13</b>
Location of Well <b>G</b>	Section <b>33</b>	Township <b>21-S</b>	Range <b>37-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	<b>Tubb</b>		<b>Drinkard</b>
b. Top and Bottom of Pay Section (Perforations)	<b>5950-6230</b>		<b>6482-6611</b>
c. Type of production (Oil or Gas)	<b>Gas</b>		<b>Injection in the Central Drinkard Unit operated by Gulf Oil Corp</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>		

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

- |   |                             |   |
|---|-----------------------------|---|
| Yes <input checked="" type="checkbox"/> | No <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 checked="" type="checkbox"/>     | <input 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. * Waivers will be furnished direct to Santa Fe.   |
| <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 112A.)  |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
- Gulf Oil Corporation, Box 1150, Midland, Texas 79701**

**Amoco Production Company, Box 1725, Midland, Texas 79701**

**Amerada Hess Corporation, Box 2040, Tulsa, Oklahoma 74102**

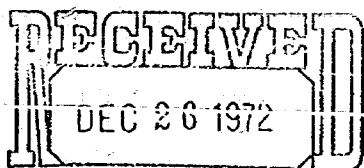
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_\_. If answer is yes, give date of such notification **December 19, 1972**.

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.

*Christine O. Tucker*  
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.



OIL CONSERVATION COMM.  
Santa Fe

OIL CONSERVATION COMMISSION  
I DISTRICT

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE December 21, 1972

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

Gentlemen:

I have examined the application dated 12/20/72  
for the Mobil Oil Corp. Carson Watson Com #13 33-21-37  
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,

DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE NO. 4892

Order No. R-~~4470~~

R-4472

APPLICATION OF MOBIL OIL CORPORATION  
FOR A DUAL COMPLETION AND WATER INJECTION,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 17, 19<sup>73</sup>,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this        day of January, 1973, 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 Carson Watson Com Well No. 13, located in Unit G of Section 33,  
Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual  
completion (conventional) to permit the production of gas from the Tubb  
Gas Pool and the injection of water into the Drinkard formation underlying  
the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.



-2-

Case No. 4892

Order No. R-

(3) That the mechanics of the proposed dual completion and water injection 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 Carson Watson Com Well No. 13, located in Unit G of Section 33, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

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 Pressure tests upon completion and annually thereafter during the Annual Shut-In ~~Gas-Oil Ratio~~ Test Period for the Drinkard Tubb Gas 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.

CASE 4893: Appli. of CONTINENTAL  
FOR A NON-STANDARD PRORATION  
UNIT, LEA COUNTY, NEW MEXICO