

CASE 3625: Application of GULF  
for a dual completion of its  
C.E. LaMUNYON WELL NO. 11.

---

Case Number

3625

Application  
Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

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  
July 26, 1967

EXAMINER HEARING

IN THE MATTER OF:

Application of Gulf Oil Corporation for  
a dual completion, Lea County, New Mexico

Case No. 3625

BEFORE:

Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 3625.

MR. HATCH: Case 3625, application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico.

MR. UTZ: You may swear the witness.

MR. KASTLER: I am Bill Kastler from Roswell, with Gulf and our chief witness in this case will be Mr. John H. Hoover.

( Witness sworn.)

MR. UTZ: You may proceed.

JOHN H. HOOVER, called as a witness by the Applicant, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KASTLER:

Q Mr. Hoover, have you previously appeared before the New Mexico Oil Conservation Commission Examiner Hearings and had your qualifications established?

A Yes, sir.

MR. KASTLER: Are his qualifications suitable?

MR. UTZ: Yes, sir, they are.

Q (By Mr. Kastler) What is Gulf seeking in this application?

A We are asking approval for a conventional dual

completion for the C. E. LaMunyon Well Number 11 in the Teaque Simpson and Teaque Ellenburger Oil Pools.

Q I note on the docket that the pools are listed as the Teaque McKee and Teaque Ellenburger.

A Yes.

Q You stated the dual will be in the Teaque Simpson and the Teaque Ellenburger?

A There is no Teaque McKee Pool, it is the Teaque Simpson as carried by the Commission. It was an error in our reference to the pool on our application, but the McKee, as we are calling it here, is the Teaque Simpson Pool.

(Whereupon, Applicant's Exhibits 1, 2 and 3 were marked for identification.)

Q Do you have a plat showing the location of this well?

A Yes, it is marked Exhibit Number 1. What we show on this plat is the C. E. LaMunyon Lease outlined in red. You can see from the plat that it covers several sections. The pertinent well, which is the C. E. LaMunyon Well Number 11 is circled in red and colored, and it is located 1980 feet from the west line and 660 feet from the north line of Section 27, Township 23 South, Range 37 East, Lea County, New Mexico.

Q Do you have a log for this well?

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A Yes, it is marked Exhibit Number 2, and on this exhibit we have shown the top and bottom of the Teaque Simpson and Teaque Ellenburger.

Q What is Exhibit Number 3 and please explain what is shown thereon?

A Exhibit Number 3 is a schematic diagram of our proposed dual completion. We have thirteen and three eighths inch "OD" casing, set at two hundred and ninety-six feet, the cement was circulated. We have nine and five eighths inch casing set at 2900 feet, cemented with 1625 sacks, and the top of the cement at 210 feet.

We have a seven inch casing set at 9843 feet cemented with 975 sacks and the top of the cement at 5350 feet. We will produce this well with two strings of tubing. The long string will be two and seven eighths inch "OD", which will be to the Ellenburger zone. The short string will be two and one sixteenth inch "OD", which will produce the Teaque Simpson production.

The Simpson perforations are from 9236 feet to 9387 feet. The Ellenburger perforations, 9700 feet to 9750 feet. We will have a Baker Model D packer set at 9650 feet and a Baker Model J packer set at 9171 feet. The short string will be latched into that packer.

In addition, on the short string tubing, we will

have gas valves installed, because the Teaque Simpson production will be gas lifted.

Q Is there anything at all unusual about the equipment proposed here?

A No, there is not. The packers are the same as used in many many duals, and, probably, the difference here is that we will be gas lifting one zone instead of by conventional pump, and the Ellenburger zone is by co-pump. The reason for the hearing is, that there have been no previous duals completed in these two pools, therefore, it takes a hearing.

Q What does it cost to dual this well and what is the cost of drilling a separate, single well?

A The estimated cost of the dual is \$21,000.00, and the single zone, Teaque Simpson Well, we estimate at approximately \$120,000.00.

Q Do you have any information on bottom hole pressures, gravities and so forth?

A We have no bottom hole pressure information. These wells have been on artificial lift for a number of years and it has been impractical to take the bottom hole pressures. The gravities of the crude are approximately the same. The Teaque Ellenburger forty-five degrees and the Teaque Simpson forty-five point seven degrees.

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Q Do you have anything further to add in this case?

A No, sir, I have nothing further; I might mention one thing. Referring to Exhibit Number 1, it may be noted there, that we have several other McKee wells and even though we are dualling this well, it is marginal production, but it is in conjunction with a planned water flood we have, which will be coming up for Examiner hearing in August.

Q Is this application in the interest of conservation and prevention of waste?

A Yes, it is.

Q Were Exhibits 1, 2 and 3 prepared by you or at your direction and supervision?

A Yes, they were.

Q MR. KASTLER: This concludes the questions on Direct and I would like to move at this time that Exhibits 1, 2, and 3 be admitted into evidence.

MR. UTZ: Without objection, Exhibits 1, 2 and 3 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits 1, 2 and 3 were admitted into evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Hoover, do you have some bottom hole pressure



information on these two zones?

A No, sir, we don't. The last bottom hole pressures were taken on the Teaque Ellenburger in 1954, I believe. On Well Number 11, the bottom hole pressure was 3156 pounds. That has been a decrease of 269 pounds over the previous test, which was taken the year before.

On the Teaque Pool, the last bottom hole pressure that I find in this area, was in 1959, which is on our Travis Lease, which is in the general vicinity, and the bottom hole pressure was 2600 pounds. No, I will have to correct that, this is on another zone in that well. In 1959, we have a bottom hole pressure on the Well Number 9 in the Teaque Simpson, which was a west offset, and the pressure at that time was 948 pounds.

The pressures are much lower than that now, because they were put on artificial lift approximately that time, so they have been on artificial lift for a number of years. I am speaking of low pressures.

MR. UTZ: Are there any other questions?

MR. KASTLER: No.

MR. UTZ: The witness may be excused.

(Witness excused)

MR. UTZ: Any statements?

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MR. KASTLER: I don't have a closing statement.

MR. UTZ: You say you do have?

MR. KASTLER: No, I don't have.

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

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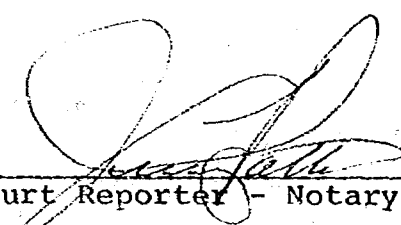
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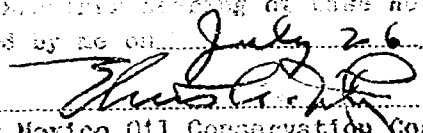
STATE OF NEW MEXICO )  
 ) SS  
 COUNTY OF BERNALILLO )

I, JERRY M. POTTS, Court Reporter, do hereby certify  
 that the foregoing and attached transcrip of proceedings  
 before the New Mexico Oil Conservation Commission Examiner  
 at Santa Fe, New Mexico, is a true and correct record  
 to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial  
 deal this 3rd day of August 1965.

  
 Court Reporter - Notary Public

My Commission Expires:  
7-10-70

And hereby certify that the foregoing is  
 a complete record of the proceedings in  
 the hearing of Case No. 3625,  
 heard by me on July 26, 1967.  
  
 Examiner  
 New Mexico Oil Conservation Commission

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE No. 3625  
Order No. R-3289

APPLICATION OF GULF OIL CORPORATION  
FOR A DUAL COMPLETION, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 26, 1967,  
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 1st day of August, 1967, 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, Gulf Oil Corporation, seeks author-  
ity to complete its C. E. LaMunyon Well No. 11, located in Unit C  
of Section 27, Township 23 South, Range 37 East, NMPM, Lea County,  
New Mexico, as a dual completion (conventional) to produce oil  
from the Teague-McKee Pool through 2 1/16-inch tubing and oil from  
the Teague-Ellenburger Pool through a parallel string of 2 7/8-  
inch tubing, with separation of zones by a packer set at approxi-  
mately 9650 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. 3625  
Order No. R-3289

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to complete its C. E. LaMunyon Well No. 11, located in Unit C of Section 27, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Teague-McKee Pool through 2 1/16-inch tubing and oil from the Teague-Ellenburger Pool through a parallel string of 2 7/8-inch tubing, with separation of zones by a packer set at approximately 9650 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;

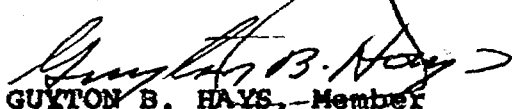
PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Teague-Ellenburger Pool.

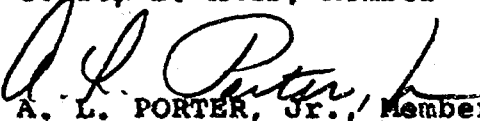
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

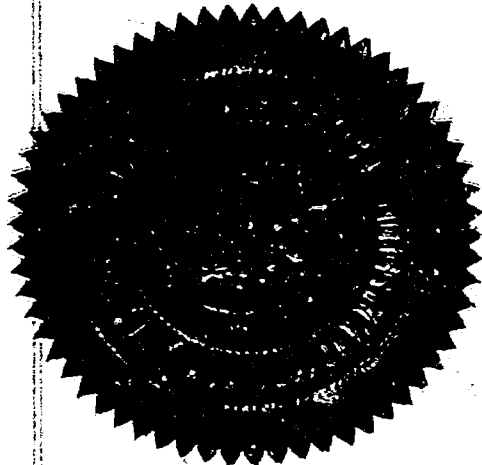
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
GUYTON B. HAYS, Member

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



esr/

State of New Mexico  
Oil Conservation Commission



P. O. BOX 2088  
SANTA FE

**August 1, 1967**

Re: Case No. 3027  
Order No. R-3289 & R-3290  
Applicant:  
Gulf Oil Corporation

Dear Sir:

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

Yours

A. L. Porter, Jr.  
Secretary-Director

Carbon copy of order also sent to:

Hobbs OCC \_\_\_\_\_ x \_\_\_\_\_  
 Artesia OCC \_\_\_\_\_  
 Aztec OCC \_\_\_\_\_  
 Other \_\_\_\_\_

Case 3625

Heard 7-26-67

Rec. 7-28-67

I want full permission to search  
(conventional) their C. E. LaMunyon.  
# 11-C-27-23 S-37 E in the League.  
McKee & League + Ellenburger.  
The McKee will produce them  
2 1/2" tubing the Ellenburger them.  
2 1/2" set them up as a well approx.  
9650'

Thos. M. J.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 26, 1967

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 3620: Application of Pubco Petroleum Corporation for an unorthodox location and a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Federal Well No. 16 to produce gas from the Blanco-Mesaverde and Basin-Dakota Pools at an unorthodox location for said pools 330 feet from the South line and 990 feet from the West line of Section 9, Township 27 North, Range 8 West, San Juan County, New Mexico.
- CASE 3621: Application of Mobil Oil Corporation for an amendment to Commission Rule 1103 A. Applicant, in the above-styled cause, seeks the amendment to Rule 1103 A to eliminate the requirement for filing Form C-103 as a notice of intention to acidize, fracture, or clean out previously completed wells.
- CASE 3622: Application of Ryder Scott Management Company for a waterflood buffer zone, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the N/2 NE/4, SW/4 NE/4 of Section 20, Township 18 South, Range 28 East, Eddy County, New Mexico, as a waterflood buffer zone in the Artesia Pool offsetting its waterflood project in Section 21 and Cima Capitan's waterflood project in Section 17 of the same township.
- CASE 3623: Application of Agua, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the interval from 11,610 feet to 11,800 feet in the Amerada Petroleum Corporation State "BTC" Well No. 2, located in Unit B of Section 35, Township 11 South, Range 33 East, Bagley Field, Lea County, New Mexico.
- CASE 3624: Application of Texas Pacific Oil Company to amend Order No. R-69-D, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment to the Bagley Siluro-Devonian Pool Rules promulgated by Order No. R-69-D to



CASE 3624 continued

permit the completion of more than one well on an 80-acre proration unit in said pool, the second well on a unit being located within 150 feet of the center of the NE/4 or the SW/4 of the quarter section, with the 80-acre allowable being produced from either well in any proportion.

CASE 3625:

Application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its C. E. LaMunyon Well No. 11 located in Unit C of Section 27, Township 23 South, Range 37 East, Lea County, New Mexico, to produce oil from the Teague McKee and Teague Ellenburger Pools through parallel strings of tubing.

CASE 3626:

Application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its R. E. Cole (NCT-A) Well No. 8 located in Unit K of Section 16, Township 22 South, Range 37 East, Lea County, New Mexico, to produce oil from undesignated Silurian and Montoya oil pools through parallel strings of tubing.

CASE 3627:

Application of Gulf Oil Corporation for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its R. E. Cole (NCT-A) Well No. 9 at an unorthodox oil well location 1075 feet from the South line and 2395 feet from the West line of Section 16, Township 22 South, Range 37 East, Lea County, New Mexico, said well being projected to undesignated Silurian and Montoya Oil Pools.

CASE 3628:

Application of Charles E. Seed for four Ogallala oil proration units and special rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of the SW/4 of Section 30, Township 18 South, Range 38 East, Lea County, New Mexico, as four oil proration units for the production of oil from the Ogallala formation. Applicant also seeks the establishment of special rules governing said 40-acre tracts including a maximum density of one well per 0.625-acre with a provision that wells should be drilled no nearer than 82.5 feet to the outer boundary of a 40-acre unit and no nearer than 165 feet to another well producing from the same formation, provided that an exception should be made for existing

CASE 3628 continued

wells which are not located in conformance with said spacing rules. Applicant also seeks a temporary exception to Rule 307 for each well to permit utilization of a vacuum-type drilling unit during the drilling and completion operations. Applicant also seeks authority to produce the wells at capacity even though the aggregate production from wells on a 40-acre tract exceeds the 40-acre normal unit allowable.

CASE 3629:

Application of Southern Minerals Corporation for salt water disposal and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State "D" Well No. 1 located in Unit E of Section 8, Township 11 South, Range 34 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Inbe-Pennsylvanian Pool and the disposal of produced salt water through the intermediate casing-production casing annulus into the Glorieta and other formations in the open hole interval from 4045 feet to 7168 feet.

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

Form Q-107  
MAIN OFFICE

'67 JUL 7 AM 8 11  
Case 3625

Operator <b>Gulf Oil Corporation</b>		County <b>Lea</b>	Date <b>July 5, 1967</b>
Address <b>P. O. Box 980, Kermit, Texas</b>		Lease <b>C. E. LaMunyon</b>	Well No. <b>11</b>
Location of Well <b>C</b>	Unit <b>27</b>	Township <b>23-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	Teague (McKee) ✓	---	Teague (Arrington)
b. Top and Bottom of Pay Section (Perforations)	9236' - 9387'		9700' - 50'
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Gas Lift		Pump

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.

Atlantic Richfield Company	P. O. Box 1978	Roswell, New Mexico
Texaco, Inc.	P. O. Box 728	Hobbs, New Mexico
Bronco Oil Corporation	P. O. Box 5114	Midland, Texas
Resler & Sheldon	801 West Texas St.	Artesia, New Mexico

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 \_\_\_\_\_.

CERTIFICATE: I, the undersigned, state that I am the Area Engineer of the Gulf 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.

*C. E. Fidler*  
Signature

DOCKET MAILED

Date 7-14-67

\*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 the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Short Tubing String (McKee):  
 2-1/16" OD 3.20# J-55 Type IJ  
 suspended @ 9170', with six  
 Camco Type J-40 valves on Type B  
 Mandrels @ 6825', 7405', 7927',  
 8447', 8900' and 9129'.

Long Tubing String (Ellenburger):  
 2-7/8" OD 6.40# NU J-55 Seal-Lock  
 Suspended @ 9687'.

McKee Perforations:  
 9236-38'  
 9276-78'  
 9334-36'  
 9360-62'  
 9385-87'

Ellenburger Perforations:  
 9700-50'

TD 9844'  
 PBD 9808'

13-3/8" OD Casing @ 296'  
 cemented with 300 sks. circulated

9-5/8" OD Casing @ 2900',  
 cemented with 1625 sks.,  
 Top Cement @ 210'.

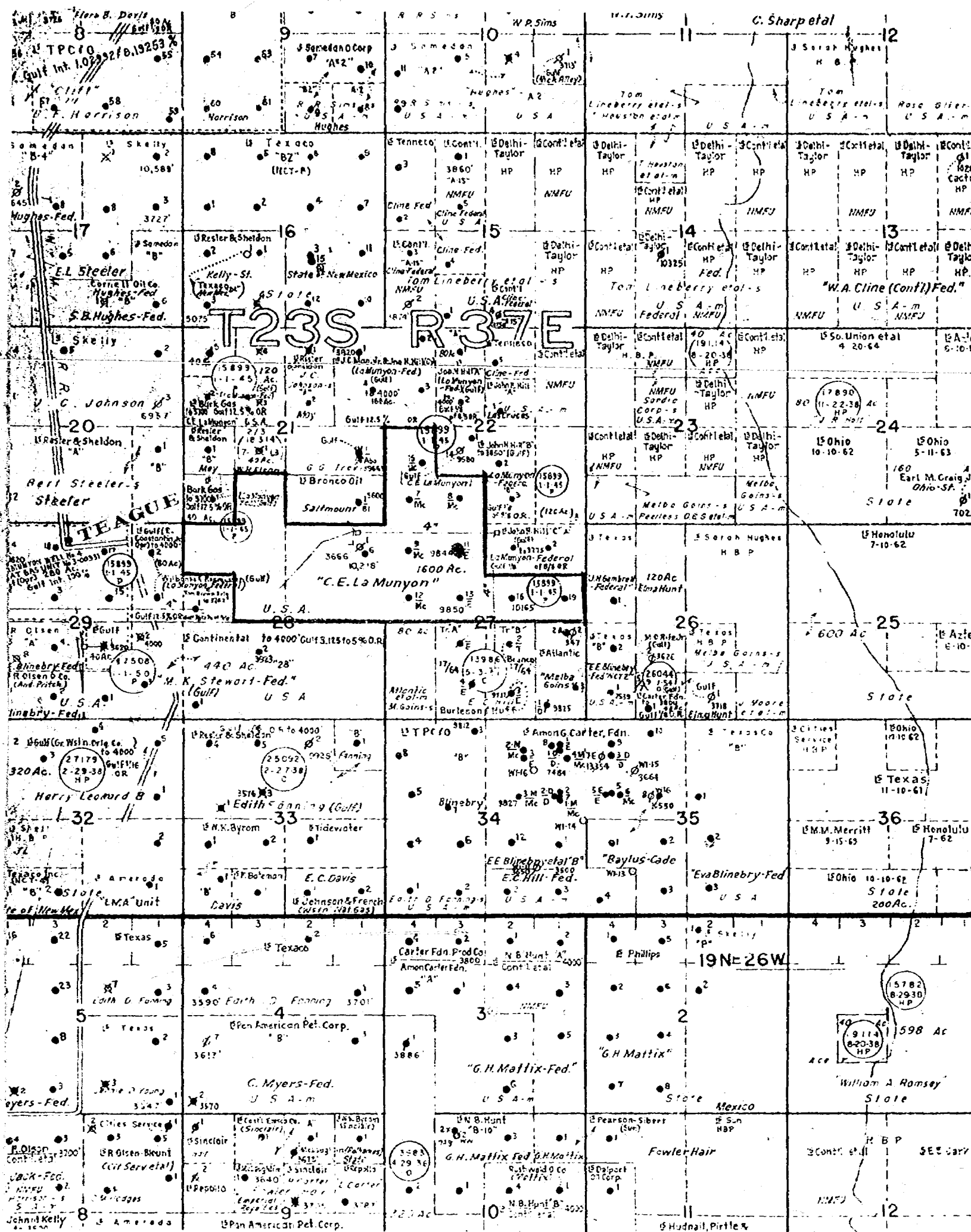
Baker Model "J" Packer @ 9171'

Baker Model "D" Packer @ 9650'

7" OD Casing @ 9843'  
 Cemented with 975 sks.  
 Top Cement @ 5350'

DIAGRAMMATIC SKETCH OF MECHANICAL INSTALLATION  
 C. E. LAMUNYON NO. 11 - OIL-OIL DUAL COMPLETION  
 Teague (Ellenburger) and Teague (McKee) Pools  
 Section 27-23S-37E, Lea County, New Mexico  
 GULF OIL CORPORATION

Case 3625



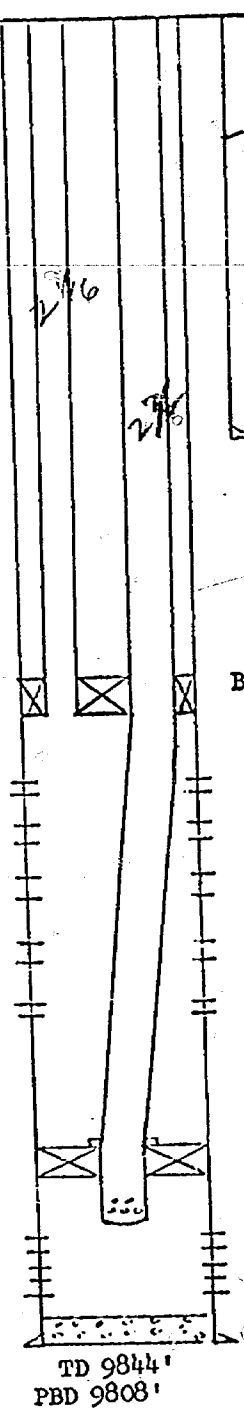


Short Tubing String (McKee):  
2-1/16" OD 3.20# J-55 Type IJ  
suspended @ 9170', with six  
Camco Type J-40 valves on Type B  
Mandrels @ 6825', 7405', 7927',  
8447', 8900' and 9129'.

Long Tubing String (Ellenburger):  
2-7/8" OD 6.40# NU J-55 Seal-Lock  
Suspended @ 9687'.

McKee Perforations:  
9236-38'  
9276-78'  
9334-36'  
9360-62'  
9385-87'

Ellenburger Perforations:  
9700-50'



13-3/8" OD Casing @ 296'  
cemented with 300 sks. circulated

9-5/8" OD Casing @ 2900',  
cemented with 1625 sks.,  
Top Cement @ 210'.

Baker Model "J" Packer @ 9171'

Baker Model "D" Packer @ 9650'

7" OD Casing @ 9843'  
Cemented with 975 sks.  
Top Cement @ 5350'

DIAGRAMMATIC SKETCH OF MECHANICAL INSTALLATION  
C. E. LAMUNYON NO. 11 - OIL-OIL DUAL COMPLETION  
Teague-Ellenburger and Teague (Simpson) Pools  
Section 27-23S-37E, Lea County, New Mexico  
GULF OIL CORPORATION

BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 3  
CASE NO. 3625

Case No. 3625  
Exhibit No. 3  
July 26, 1967