

CASE 1701: Application of Seal
OIL-OIL dual completion of its
Learcy McBuffington Well No. 8 -
Lea County, New Mexico

Casa No.

1701

Application, Transcript,
Small Exhibits, Etc.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE NO. 1701

TRANSCRIPT OF HEARING

June 25, 1959

DEARNLEY - MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
3-6691 5-9546

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GERALD J. SAVAGE

4

JOHN HOOVER

8

EXPLANATION

GUYLA A. (M), daughter,

DEARNEY & MEIER, ATTORNEYS

Mr. HOOVER: I am going to ask you to read the first
page on the exhibit to me.

Mr. HOOVER: I am going to ask you to read the first
page on the exhibit to me.

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page on the exhibit to me.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
June 25, 1959

IN THE MATTER OF:

Application of Gulf Oil Corporation
for an oil-oil dual completion.
Applicant, in the above-styled cause,
seeks an order authorizing the dual
completion of its Learoy McBuffington
Well No. 5, located in the NW/4 SE/4,
Section 13, Township 25 South, Range
37 East, Lea County, New Mexico, in
such a manner as to produce oil from
an undesignated Paddock Pool and oil
from the Justis-Ellenburger Pool
through parallel strings of tubing.

CASE NO.
1701

BEFORE:

ELVIS A. UTZ, Examiner.

TRANSCRIPT OF PROCEEDINGS

MR. UTZ: The hearing will come to order. The first
case on the docket will be 1701.

MR. PAYNE: Case 1701. Application of Gulf Oil
Corporation for an oil-oil dual completion.

MR. KASTLER: My name is Bill Kastler and I'm
appearing for Gulf Oil Corporation. Our two witnesses in this
hearing No. 1701 are Mr. G. J. Savage and Mr. John H. Hoover.

(Witnesses sworn.)

GERALD J. SAVAGE

called as a witness, having been first duly sworn on oath, testified as follows:

DIRECT EXAMINER

BY MR. KASTLER:

Q Mr. Savage, will you please take the stand?

A All right, sir.

Q For the record, will you state your name, your place of employment and your residence?

A I am Gerald J. Savage. I work for the Gulf Oil Corporation at Roswell, New Mexico, as a Production Geologist.

Q Mr. Savage, have you previously appeared and qualified as an expert geologist and testified before the New Mexico Oil Commission?

A Yes, I have, sir.

Q Are you familiar with Gulf's application in Case No. 1701?

A Yes, sir.

Q Do you have a lease plat which will be helpful in explaining what Gulf is seeking in this case?

A Yes, sir, I have caused this exhibit to be labeled No. 1 in this Case 1701.

Q Referring to Exhibit No. 1, would you please state who is involved and illustrate where the well is located?

A This lease shows Gulf's McBuffington lease being in the south half of Section 13, Township 25 South, Range 37 East. Gulf's No. 5 Learoy McBuffington located 1750 feet from the south line and 1980 feet from the east line is circled and marked in red. This lease plat also shows offset operators.

Q Was well No. 5 previously authorized by the New Mexico Oil Commission to be dually completed in the Ellenburger and Blinberry zones?

A Yes, sir, that is correct.

Q What is the order number, if you know?

A I believe the order number for that dual was R-1197.

Q And in this application is it true that you are seeking to amend R-1197 in order that you may now dually complete in the Ellenburger and Paddock Oil Pool?

A Yes. We specifically request that order R-1197 be amended or cancelled.

Q Do you have a contour map?

A I have copies of a contour map which I have caused to be labeled Exhibit No. 2 in Case 1701.

Q Referring to Exhibit No. 2, would you explain what is shown and illustrated in this?

A This is a contour map on top of the Glorieta formation in which the Paddock pay is located. This is contoured with a contour interval of 25 feet and shows the structural position of

Gulf's No. 5 Learoy McBuffington.

Q In the Paddock pool?

A In the Paddock, that's right.

Q And the perforations in Well No. 5 now, or as proposed, will be within the vertical limits of the Paddock Oil zone?

A Yes, sir. They are present within the vertical limits of the Paddock oil zone.

Q For Exhibit No. 3 have you prepared or caused to be prepared an electric log that shows the perforations and formations encountered?

A Yes, sir, I have. On this log are specifically shown the tops of the formations encountered in this area. And shown at a depth of 4940 and 4946 are the perforations within the Paddock oil zone.

Q Has testimony previously been given in connection with the Ellenburger as it has been encountered in this well?

A Yes, I believe it was in Case No. 1455. The Ellenburger formation was discussed in this well.

Q And the perforations in the Ellenburger are not shown on Exhibit No. 3?

A No, sir. The Ellenburger in this well is producing through open hole below 8,260 feet to a total depth of 8,300 feet.

Q Mr. Savage, were Exhibits No. 1, 2, and 3 prepared by you or at your direction or under your supervision?

A Yes, sir, they were.

MR. KASTLER: Mr. Utz, these are the only questions I have of Mr. Savage. And I would like to move at this time that Exhibits No. 1, 2, and 3 be admitted into evidence in this case.

MR. UTZ: Without objection they will be admitted into evidence.

BY MR. UTZ:

Q Mr. Savage, would you point out again the Paddock zone for me on this map or log?

A The top of the Glorieta formation in this well is found at a depth of 4,645 feet. It is my understanding the Paddock oil zone is what is left after we take out the Paddock gas or the Justis gas. The Justis gas is defined as existing from the top of the Glorieta formation down to a point which is 40 feet above a marker found at a depth -- I believe it's 4879 feet in Gulf's No. 8 Learoy McBuffington. And correlating the log of the No. 5 Learoy McBuffington with the log of the No. 8 Learoy McBuffington, I find that the base of this Justis Gas Pool is at a depth of 4892 on this log, which is 48 feet above the top of our first perforation. Does that answer your question, sir?

Q Yes, I believe so. Now, R-1197 was a dual order for what two zones again?

A It was a dual order permitting the dual of the Blaine and Ellenburger formations in this well.

Q So in effect what you want to do is change from the Blinebry to the Justis?

A To the Paddock oil, I believe. It is undesignated at the present time, but I believe it would be called the Paddock oil zone.

MR. PORTER: Does the Glorieta include both the Blinebry and the Paddock?

A Yes, sir, I believe both the Justis gas, this Paddock oil and the Blinebry formations, the Blinebry pays are within the Glorieta formation.

MR. UTZ: Are there any other questions of the witness? If not, the witness may be excused.

(Witness excused.)

JOHN HOOVER

called as a witness, having been first duly sworn on oath, testified as follows:

DIRECT EXAMINATION

BY MR. KASTLER:

Q Will you please state your name and where you live, and by whom are you employed?

A My name is John Hoover, Roswell, New Mexico, employed by the Gulf Oil Corporation.

Q Mr. Hoover, have you previously appeared and qualified

and testified on behalf of Gulf Oil Corporation as a Production Engineer?

A Yes, sir, I have.

Q Are you familiar with Gulf's application in this Case No. 1701?

A Yes, sir.

Q Have the two zones, namely the Ellenburger and the Paddock zones, been previously approved for dual completion?

A To my knowledge they have not.

Q Do you have a proposed mechanical installation drawing or schematic diagram?

A Yes, sir. We have labeled this Exhibit No. 4.

Q Referring to Exhibit No. 4, would you please explain what is shown on that?

A Exhibit 4 is the mechanical installation of this proposed oil-oil dual completion. It shows that we have 13 3/8 inch casing set at 423 feet and cemented to the surface. We have 9 5/8 inch casing set at 3450 feet cemented to the surface. We have 7 inch casing set at 8,260 feet cemented with a thousand sacks at the top of the cement by temperature surveys is at 3775 feet. We have two strings of tubing. We have a Baker Model "D" packer which is a permanent type packer set at 8150 feet. We have a long string of 2 7/8 inch hydril tubing set to the packer, 2 3/8 inch tubing below the packer. We have 2 3/8 tubing latched into a

Baker parallel string anchored at 4205 feet. On our drawing we have labeled the Ellenburger oil and have shown it in pink and the Paddock in green. The Paddock perforations are shown on here as 4940 feet and 4946. The Ellenburger in the open hole below 8260 to a total depth of 8300.

Q Mr. Hoover, can adequate tests be performed to insure that no commingling exists in the well bore in this installation?

A Yes, it can.

Q How would those tests be performed and what would they show?

A The Ellenburger crude is sweet. The Paddock crude is sour, having a .67% sulphur. The gravity of the Ellenburger oil is 45 degrees; of the Paddock 39 degrees. On our Ellenburger we have a tubing pressure of 1600 pounds closed in. On the Paddock 1120 pounds. Therefore, we have ample differential between the two fluids and we can make packer leakage tests. We have on the Ellenburger the bottom hole pressure at a datum of minus 5,050 feet is 3253 pounds; on the Paddock at a datum of a minus 1860 feet was 2,099 pounds. Correcting this bottom hole pressure to our packer setting depth would give us less than 200 pounds differential across the packer.

Q In other words, if any commingling should occur it would show up immediately, is that correct?

A Yes.

Q Would this granting of this application be in the interest of conservation and protection of correlative rights?

A Yes, it would.

Q Would the granting of this application result in a substantial saving to the operator?

A Yes, it would.

Q In what way?

A For example, our estimated cost to dual Paddock and Ellenburger is \$182,600. The cost to drill an Ellenburger well we estimate at \$155,000; the cost to drill a Paddock is estimated at \$65,000; or to make a total of the two wells at \$220,000 as compared to our dual cost of \$182,600. This we realize a saving of some \$37,400.

Q Mr. Hoover, was Exhibit No. 4 prepared by you or at your direction or under your supervision?

A Yes, sir.

MR. KASTLER: These are the only questions I have of the witness Mr. Hoover. And at this time I would like to offer Exhibit No. 4 into evidence.

MR. UTZ: Without objection Exhibit No. 4 will be entered into evidence. Are there any questions of the witness? If there are no questions the witness may be excused.

(Witness excused.)

MR. UTZ: Are there any other statements to be made in this case? If not, the case will be taken under advisement.

STATE OF NEW MEXICO)
 : ss
 COUNTY OF BERNALILLO)

I, Ned A. Greenig, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached transcript of proceedings before the Oil Conservation Commission was reported by me in stenotype and reduced to typewritten transcript by me and/or under my personal supervision and that the same is a true and correct record to the best of my knowledge, skill and ability.

Witness my hand and seal this the *24th* day of July, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Ned A. Greenig
 Notary Public

My Commission Expires:
 May 5, 1963

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. *1201*, heard by me on *June 24, 1958*.

Arthur H. [Signature], Examiner
 New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

July 2, 1959

C
O
P
Y

Mr. Bill Kastler
Gulf Oil Corporation
P. O. Box 669
Roswell, New Mexico

Dear Mr. Kastler:

On behalf of your client, Gulf Oil Corporation, we
enclose two copies of Order No. R-1434 in Case 1701,
issued by the Oil Conservation Commission July 2,
1959.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Enclosures

Copy sent to Huber Office

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 1701
Order No. R-1434

APPLICATION OF GULF OIL CORPO-
RATION FOR AN ORDER AUTHORIZING
AN OIL-OIL DUAL COMPLETION IN AN
UNDESIGNATED PADDOCK POOL AND
IN THE JUSTIS-ELLENBURGER POOL,
LEA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 8 o'clock a.m. on June 24, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 2nd day of July, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, is the owner and operator of the Learcy McBuffington Well No. 5, located 1650 feet from the South line and 1980 feet from the East line of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to dually complete said Learcy McBuffington Well No. 5 in such a manner as to permit the production of oil from an undesignated Paddock Pool and the production of oil from the Justis-Ellebenburger Pool through parallel strings of tubing.

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

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

Case No. 1701
Order No. R-1434

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, be and the same is hereby authorized to dually complete its Learcy McBuffington Well No. 5, located 1650 feet from the South line and 1980 feet from the East line of Section 13, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Paddock Pool and the production of oil from the Justis-Ellenburger Pool through parallel strings of tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

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

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

(2) That Order No. R-1197 authorizing the dual completion of the aforesaid Learcy McBuffington Well No. 5 in the Blinbry formation and the Justis-Ellenburger Pool be and the same is hereby superseded.

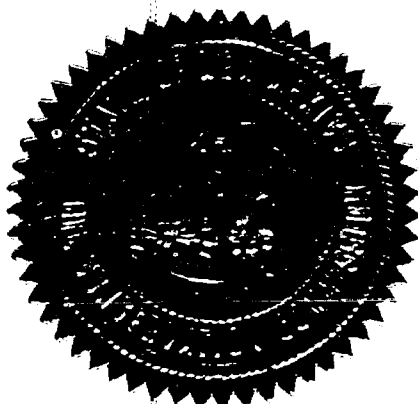
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


JOHN BURROUGHS, Chairman


MURRAY E. MORGAN, Member


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



vem/

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 6-26-59

HEARING DATE 6-24-59

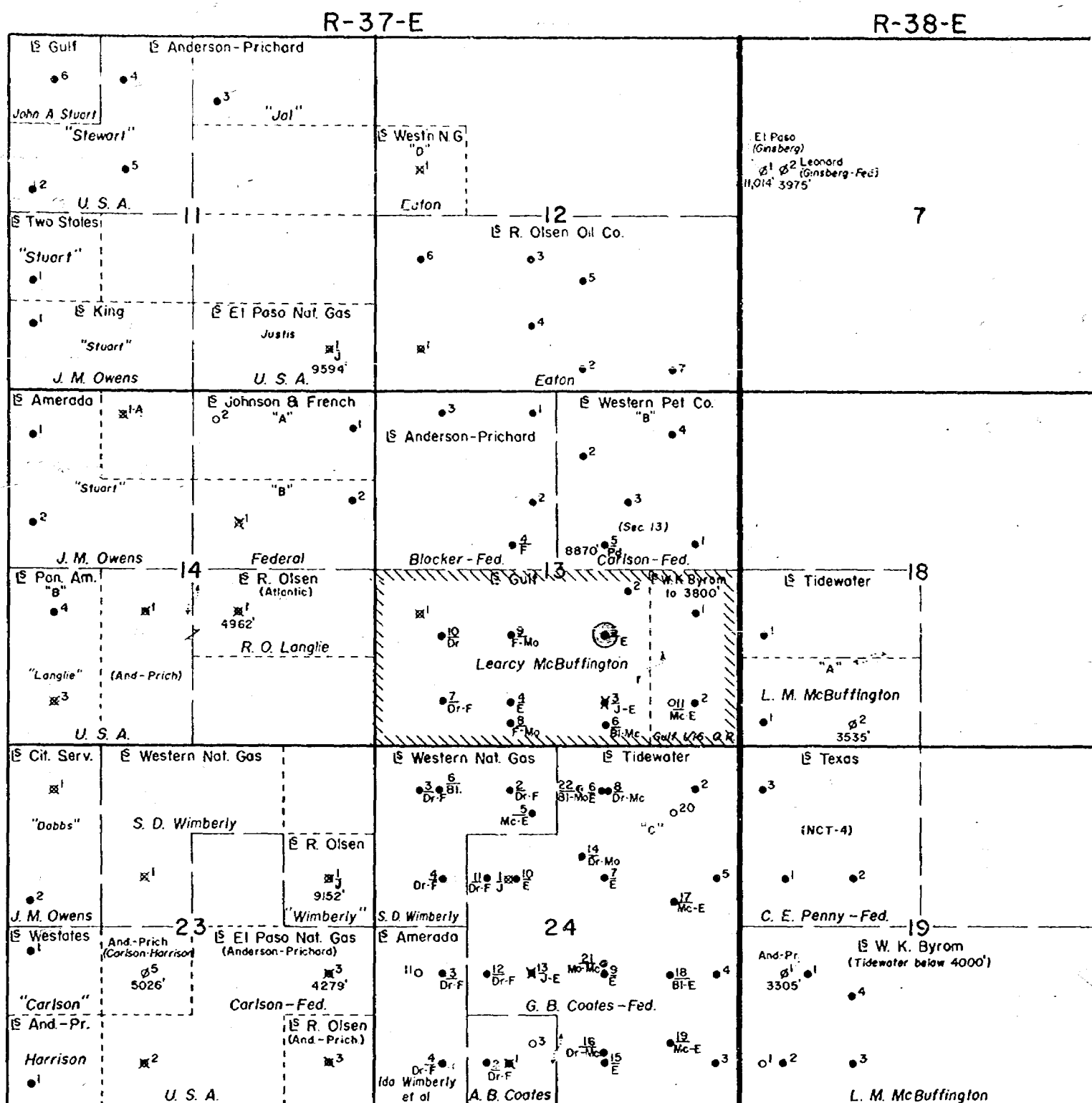
CASE NO. 1701

My recommendations for an order in the above numbered case(s) are as follows:

1. Approve Gulf's dual-completion request for the Gulf Leasing McBuffington #5.
2. The well is completed in the ^{undesignated} Justis - Padlocks and Ellenburger.
3. The upper completion (Justis - Padlocks) will flow thru 2 3/8 EUE and the lower completion (Justis - Ellenburger) thru 2 7/8 Hydril tubing.
4. A Baker model "D" non-retrievable packer will separate the zones.

Christ A. [Signature]

Staff Member



LEASE PLAT
LEARCY McBUFFINGTON
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

- LEGEND -

- Pertinent Gulf Lease
 Pertinent Gulf Well

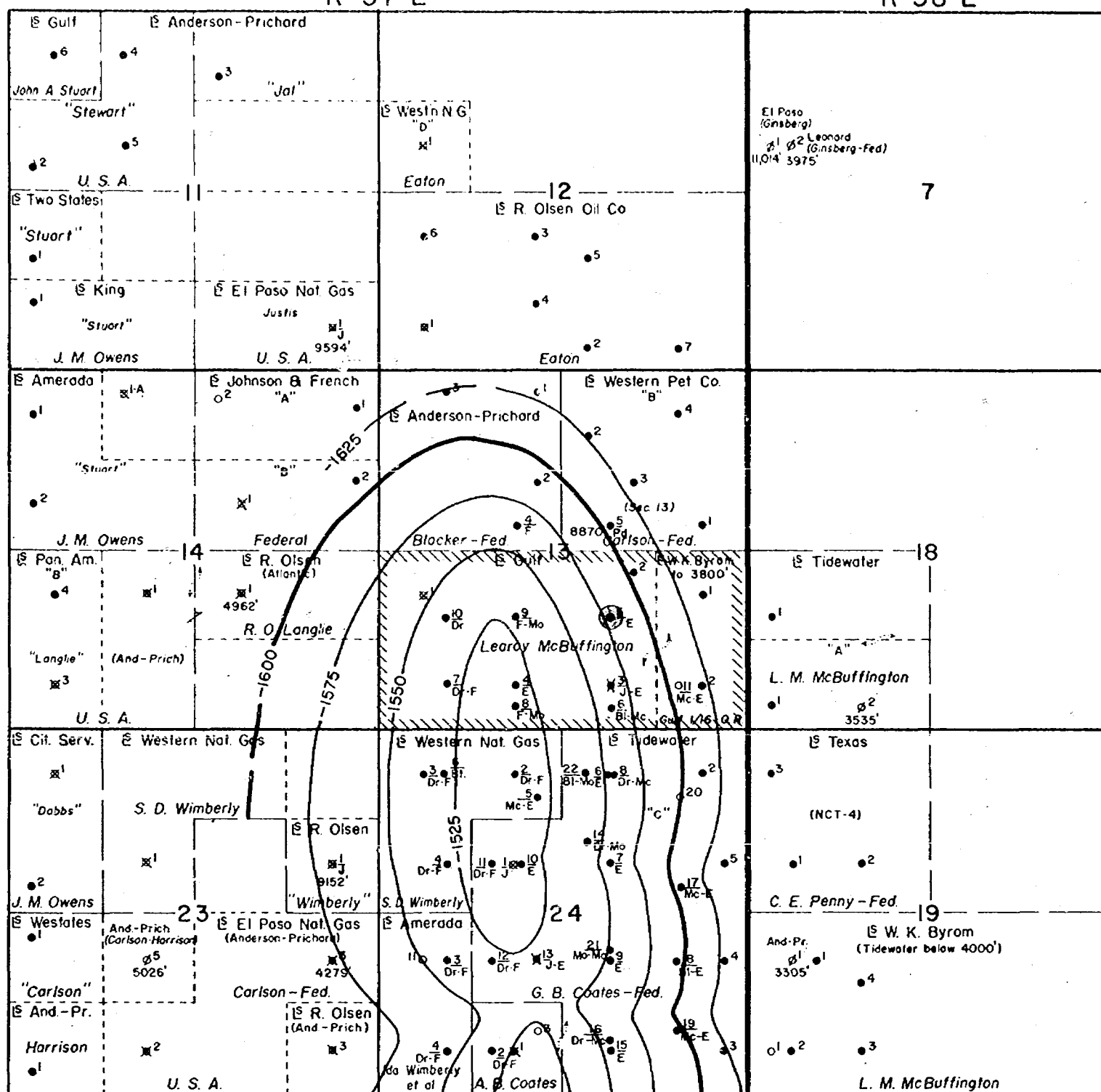
Gulf Oil Corporation
Petroleum Engineering

Ft. Worth Prod. Div.
June 24, 1959

EXHIBIT NO. 1
 CASE NO. 1701

Case No. 1701
 Exhibit No. 1

R-38-E



Case No. 1701 Exhibit No. 2

Gulf Oil Corporation June 24, 1959

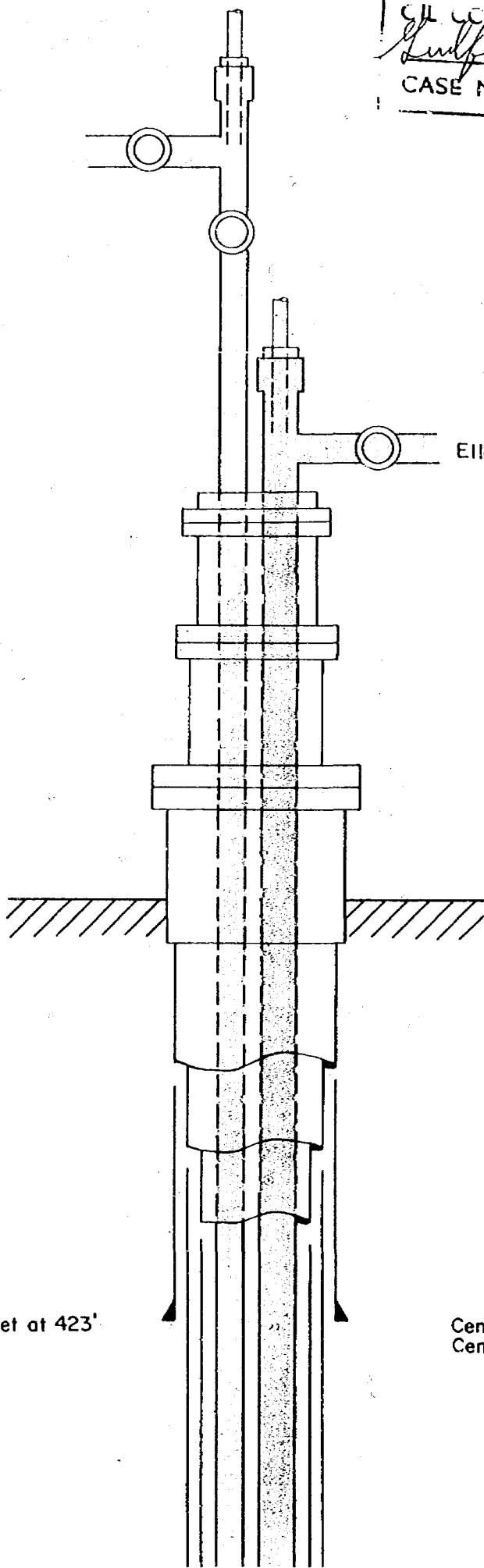
BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

EXHIBIT NO. 2
CASE NO. 1761

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Gulf EXHIBIT NO. 4
CASE NO. 1201

Paddock Oil

Ellenburger Oil



13 3/8" OD csg. set at 423'

Cemented w/400 sax
Cement circulated

9 5/8" OD csg. set at 3450'

Cemented w/2350 sax
Cement circulated

2 3/8" tubing

2 7/8" Hydril tubing

Paddock Perforations - F.I.

4940'
4946'

Baker parallel string tubing
anchor set at 4920'

2 1/2" Seating Nipple at 8148'

2"x3" OD GOT type BC-CV
set at 8259'

Baker Model D packer
w/recept. & seal assy.
set at 8150'

2 3/8" OD tubing BPOB at 8270'

7" OD csg. set at 8260'

Seating Nipple at 8248'
Cemented w/1000 sax
Top at 2575'

Ellenburger - 6 1/4" open hole

TD 8300'

Note!

Drawing not to scale

Case No. 1701

Exhibit No. 4

**PROPOSED MECHANICAL INSTALLATION
OIL-OIL DUAL COMPLETION
LEARCY McBUFFINGTON NO. 5
JUSTIS-ELLENBURGER & PADDOCK (UNDESIGNATED)
POOLS
LEA COUNTY, NEW MEXICO**

Gulf Oil Corporation
Petroleum Engineering

Fort Worth Prod. Div.
June 24, 1959

DOCKET: EXAMINER HEARING JUNE 24, 1959

OIL CONSERVATION COMMISSION - 1120 CERRILLOS ROAD, HIGHWAY DEPARTMENT
AUDITORIUM, 8 a.m., SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or A. L. Porter, Jr., Secretary-Director.

CONTINUED CASE

CASE 1666: Application of Sunray Mid-Continent Oil Company for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its Central Bisti-Lower Gallup Sand Unit embracing approximately 7389 acres of federal, state, and allotted Indian lands in the Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico.

NEW CASES

CASE 1692: Application of Continental Oil Company for the establishment of a non-standard gas proration unit in the Tubb Gas Pool. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in the Tubb Gas Pool consisting of lot 15, the N/2 SE/4 and the SE/4 SE/4 of Section 3, Township 21 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to applicant's Hawk B-3 Well No. 2-T, located 1650 feet from the South and East lines of said Section 3.

CASE 1693: Application of Amerada Petroleum Corporation for three non-standard oil proration units. Applicant, in the above-styled cause, seeks an order establishing three 43.7 acre non-standard oil proration units for Mississippian production in the SE/4 of Section 11, Township 13 South, Range 38 East, Lea County, New Mexico. Applicant further seeks approval of one unorthodox oil well location.

CASE 1694: Application of Texas Crude Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Big Eddy Unit 1-30 Well, located in the SE/4 SE/4 of Section 30, Township 20 South, Range 31 East, Eddy County, New Mexico, in such a manner as to produce oil from an undesignated Tansil pool and to produce oil from an undesignated Delaware pool through parallel strings of tubing.

CASE 1695: Application of Texaco, Inc. for a triple completion, for permission to commingle the production from three separate pools, and for the establishment of two non-standard gas proration units. Applicant, in the above-styled cause, seeks an order authorizing it to triple complete its A. H. Blinebry NCT-4 Well No. 1, located in the SE/4 SE/4 of Section 31, Township 22 South, Range 38 East, Lea County, New Mexico, in such a manner as to permit production from the Blinebry formation, production of gas from the Tubb Gas Pool, and production of oil from the Drinkard Pool through tubing, the annulus via cross-over, and tubing respectively. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in both the Tubb Gas Pool and Blinebry Gas Pool each consisting of the S/2 S/2 of said Section 31. Applicant further seeks permission to commingle the liquid production from the Blinebry, Tubb, and Drinkard formations underlying said acreage.

- CASE 1696: Application of Caulkins Oil Company for a triple completion. Applicant, in the above-styled cause, seeks an order authorizing it to triple complete its Breech "F" Well No. PMD-8, located in the NE/4 NE/4 of Section 34, Township 27 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to produce gas from the South Blanco-Pictured Cliffs Pool, gas from the Mesaverde formation, and gas from the Dakota formation through parallel strings of tubing.
- CASE 1697: Application of Universal Oil Corporation for the creation of a new oil pool for Gallup production, and for an exception to Rules 104 and 107 for wells in said pool. Applicant, in the above-styled cause, seeks an order creating a new pool for Gallup production to be designated the Shiprock-Gallup Oil Pool and located in Sections 16 and 17, Township 29 North, Range 18 West, San Juan County, New Mexico. Applicant further seeks the promulgation of pool rules to permit wells in said pool to be located closer than 660 feet to the nearest producing well in exception to Rule 104, and to permit certain exceptions to the casing requirements of Rule 107 of the Commission Rules and Regulations.
- CASE 1698: Application of Shell Oil Company for an exception to Rule 502 I (a). Applicant, in the above-styled cause, seeks an order which would exempt all wells in the Carson Unit Area and all other Shell wells in Township 25 North, Ranges 11 and 12 West, Bisti-lower Gallup Oil Pool, San Juan County, New Mexico, from the daily tolerance provisions of Rule 502 I (a) of the Commission Rules and Regulations.
- CASE 1195: Application of Graridge Corporation for capacity allowables for certain wells in a water flood project. Applicant, in the above-styled cause, seeks an order authorizing capacity allowables for three wells in the project area of its water flood in the Caprock-Queen Pool in Lea and Chaves Counties, New Mexico.
- CASE 1196: Application of Graridge Corporation for an order amending Order No. R-966. Applicant, in the above-styled cause, seeks an order amending Order No. R-966 to establish administrative procedures for development of its Artesia Water Flood Projects No. 2 and 3, Artesia Pool, Eddy County, New Mexico, and for approval of unorthodox locations for 27 wells in said projects, for authority to convert six wells in said projects to water injection, and for capacity allowables for five wells in said projects.
- CASE 1185: Application of Graridge Corporation for an order amending Order No. R-952. Applicant, in the above-styled cause, seeks an order amending Order No. R-952 to establish administrative procedures for development of its Artesia Water Flood Project No. 1, Artesia Pool, Eddy County, New Mexico, and for approval of unorthodox locations for fifteen wells in said project, and for capacity allowables for five wells in said project.
- CASE 1699: Application of J. W. Brown for an order authorizing a pilot water flood project. Applicant, in the above-styled cause seeks an order authorizing it to institute a pilot water flood project in the Brown Pool, Chaves County, New Mexico, by the injection of water into the Queen formation through four wells located in the SE/4 NW/4 of Section 26, Township 10 South, Range 26 East, Chaves County, New Mexico.

- CASE 1337: Application of Gulf Oil Corporation for an order amending Order No. R-1093-A. Applicant, in the above-styled cause, seeks an order amending Order No. R-1093-A to permit the commingling of Paddock production with the commingled Blinbry, Drinkard, and Langlie-Mattix production from its Learcy McBuffington lease consisting of the S/2 of Section 13, Township 25 South, Range 37 East, Justis Field, Lea County, New Mexico.
- CASE 1700: Application of Gulf Oil Corporation for permission to commingle the production from two separate leases: Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the East Millman Queen-Grayburg Pool from two separate non-contiguous leases in Township 19 South, Range 28 East, Eddy County, New Mexico.
- CASE 1703: Application of Tidewater Oil Company to commingle the production from several separate oil pools from two separate leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the intermediate grade crudes produced from its Coates "D" Lease comprising the SE/4 SW/4 of Section 24, Township 25 South, Range 37 East, Justis Field, Lea County, New Mexico, with the commingled production of all intermediate grade crudes produced from its Coates "C" Lease comprising the E/2, SE/4 NW/4, and the NE/4 SW/4 of said Section 24 and to pass such commingled production through its automatic custody transfer system.
- CASE 1704: Application of Cities Service Oil Company for capacity allowables for nine wells in a water flood project and for establishment of administrative procedure for expansion of said project. Applicant, in the above-styled cause, seeks an order authorizing capacity allowable for nine wells in the project area of its water flood project in the Caprock-Queen Pool, Chaves County, New Mexico. Said capacity allowables would be in exception to Order R-1128-A. Applicant further seeks establishment of an administrative procedure to expand said water flood project.
- CASE 1705: Application of Neville G. Penrose, Inc., for a capacity allowable for one well. Applicant, in the above-styled cause, seeks an order authorizing a capacity allowable for its Alston Well No. 2, located in the NW/4 NW/4 of Section 11, Township 14 South, Range 31 East, Caprock Queen Pool, Chaves County, New Mexico, due to a response from the adjoining Cities Service Oil Company water flood project. Said capacity allowable would be in exception to Order R-1128-A.

NEW MEXICO OIL CONSERVATION COMMISSION

Docket No. 23-59-a

In addition to the cases listed on Docket No. 23-59, the following cases will also be heard June 24, 1959, before Elvis A. Utz, Examiner, or A. L. Porter, Jr., Secretary-Director:

CASE 1701:

Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Learcy McBuffington Well No. 5, located in the NW/4 SE/4, Section 13, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from an undesignated Paddock Pool and oil from the Justis-Allenburger Pool through parallel strings of tubing.

CASE 1702:

Application of Humble Oil & Refining Company for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its South Four Lakes Unit Well No. 6, located in the SW/4 SE/4, Section 2, Township 12 South, Range 34 East, Lea County, New Mexico, in such a manner as to produce oil from a Four Lakes-Pennsylvanian Pool extension and gas from a Four Lakes-Devonian Gas Pool extension through parallel strings of tubing.

CASE 1706:

Application of Sunray Mid-Continent Oil Company for an order amending Order No. R-1414. Applicant, in the above-styled cause, seeks an order amending Order No. R-1414 to include the following additional acreage: NW/4 NW/4 of Section 6, Township 25 North, Range 12 West, and the SW/4 SW/4 of Section 31, Township 26 North, Range 12 West, San Juan County, New Mexico.

Place of hearing will be Highway Department Auditorium, 1120 Cerrillos Road, Santa Fe, New Mexico.

Time of hearing will be 8:00 o'clock a.m.



PETROLEUM AND ITS PRODUCTS

GULF OIL CORPORATION

P. O. DRAWER 1290 · FORT WORTH 1, TEXAS

May 25, 1959

E. HOSFORD
DIVISION PRODUCTION COORDINATOR

FORT WORTH
PRODUCTION DIVISION

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Re: Application for an Order Amending R-1197 in Case 1455 to Permit Gulf to Oil-Oil Dually Complete Learcy Mc-Buffington Well No. 5 in the Justis-Ellenburger and Paddock (Undesignated) Formations

Gentlemen:

Gulf Oil Corporation herewith makes application for an order amending R-1197 in Case 1455 authorizing Gulf to dually complete subject well in such a manner that the Justis-Ellenburger and an undesignated Paddock oil reservoir may be produced through parallel strings of tubing. A hearing is being requested for this oil-oil dual as the two zones involved have not previously been approved by the Commission.

In support of this application, Gulf offers the following:

- (a) Gulf Oil Corporation is the owner and operator of all producing rights below 3800 feet in the Learcy McBuffington Lease, which consists of the S/2 of Section 13, T-25-S, R-37-E, Lea County, New Mexico. Subject well is located 1650 feet from the south line and 1980 feet from the east line of said Section 13.
- (b) The 13-3/8" casing in subject well was set at 423 feet and the cement circulated. The 9-5/8" casing was set at 3450 feet and cement circulated with 2350 sacks. This well was drilled to a total depth of 8300 feet and the 7" casing was set at 8260 feet with top of cement outside the 7" indicated at 2575 feet.
- (c) If approved, the subject well will be dually completed through the use of parallel strings of tubing as shown in the diagrammatic sketch attached hereto. The two producing intervals will be separated by means of a Baker Produc-

*When writing
order
supersede
R-1197
(Bl- Ellenburger
dual authorization)
Paddock
Miles
6-12-59
JL*

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tion Packer set at 8150 feet, which is capable of withstanding any differential in pressures expected to be encountered between the two producing formations.

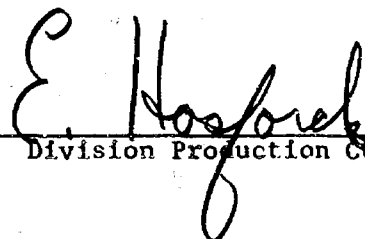
The manner and method of the proposed dual completion is mechanically feasible and practical and the granting of this application is in the interest of conservation and the protection of correlative rights. Applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pays.

By copy of this letter of application, all offset operators are notified of the proposed dual completion.

Respectfully submitted,

GULF OIL CORPORATION

By


Division Production Coordinator

cc: Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

Anderson-Prichard Oil Corporation
P. O. Box 196
Midland, Texas

W. K. Byrom
1000 Dal Paso
Hobbs, New Mexico

R. Olsen Oil Company
Drawer Z
Jal, New Mexico

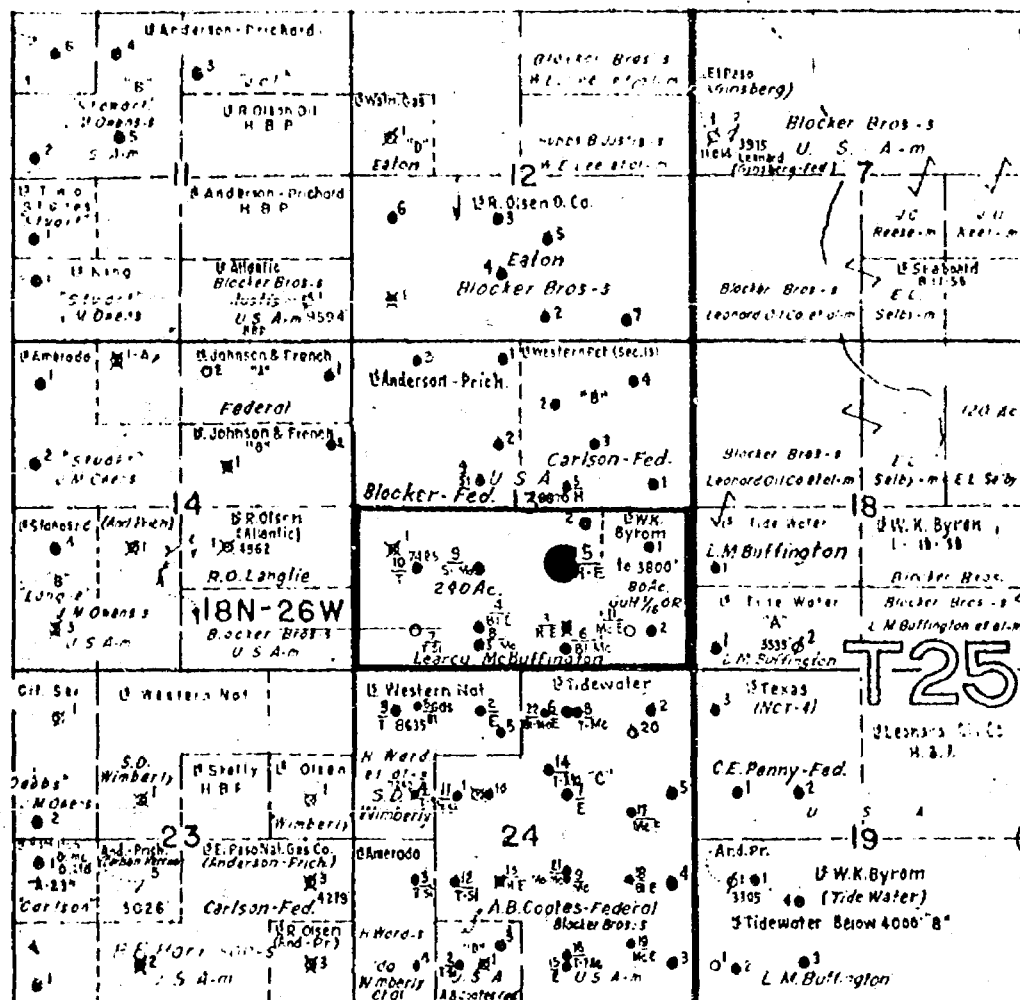
Texaco, Inc.
P. O. Box 1270
Midland, Texas

Tidewater Oil Company
Att'n: J. B. Holloway
P. O. Box 1404
Houston, Texas

Western Natural Gas Company
Midland Tower Building
Midland, Texas

Western Petroleum Company
291 Sutter Street
San Francisco, California

Texas-New Mexico Pipe Line Company
P. O. Box 1510
Midland, Texas



R - 37 - E

GULF'S LEARCY McBUFFINGTON LEASE LEA COUNTY, NEW MEXICO

Legend

● $\frac{5}{H-E}$ Proposed Paddock-Ellenburger
Oil-Oil Dual

GULF OIL CORPORATION

SCALE 1" = 3000'

13-3/8" OD csg. at 423'

Cemented w/400 sax
Cement Circulated

9-5/8" OD csg. at 3450'

Cemented w/2350 sax
Cement Circulated

Proposed Justis-
Paddock Perforations

4940'
4946'

Baker Parallel String Anchor
at Approximately 4920'

Paddock Tbg. String is 2-3/8"
OD EUZ 4.70 lb 8 KT.
Ellenburger or Long String is
2-7/8" OD Tbg.

Baker Receptacle at approximately
8148'

Baker Model "D" Prod. Pkr. at
approximately 8150'

7" OD csg. at 8260'

Cemented w/1000 sax
Cement top at 2575' per T.S.

Open Hole Interval 8260-8300'
in Justis-Ellenburger Pool

TD 8300'

PROPOSED MECHANICAL INSTALLATION
OIL-OIL DUAL COMPLETION

NOTE:
DRAWING NOT TO SCALE.

Learcy McBuffington No. 5
Justis-Paddock & Ellenburger Pools

Lea County, New Mexico

GULF OIL CORPORATION

FT. WORTH PROD. DIV.