

1944-1945 Application of GULF for  
a license completion of its W. A.  
number 400-41 1941 NO. 4.

Case 110.  
2751

petition, Transcript,  
and Exhibits, Etc.



13-3/8" 48#, H-40 Cag. Set at  
1000' cmtd.w/660 ex.cmt.circ.

9-5/8", 36#, J-55 Cag. Set at  
3480' cmtd.w/350 ex.TSITC @ 2295'

2-3/8" Buttress-Thread  
Tbg. Set at 6977'

Brown Oil Tool 2"x2"x7" Model  
DS-92H Short String Sat Packer  
at 7046'

Brown Oil Tool Three String  
Tubing Anchor Set at 6977'

6988' Fusselman Perforations  
6996' 103 BOW 2-3/8" Buttress-Thread  
23/64 15 HRO Tbg. Set at 7046'

7-5/8" & 7" Cag. Set at 8155'  
cmtd. in two stages with DV Tool  
at 6310' TSITC at 3675' & 6440'

7110' Montoya Perforations  
7114' 164 BOW 6 BOW  
24/64 14/64 5 HRO  
TP 380

2-3/8" Buttress-Thread  
Tbg. Set at 8025'

Baker Model "D" Pkr. Set at 8025'

8110' Waddell Perforations  
8114'

T. D. 8155'  
P. B. 8123'

PROPOSED MECHANICAL INSTALLATION  
OIL-OIL-OIL TRIPLE COMPLETION

W. A. RAMSAY (NCT-C) NO. 4

NORTH JUSTIS FUSSELMAN, NORTH JUSTIS MONTOYA  
AND NORTH JUSTIS WADDELL OIL POOLS

Lea County, New Mexico

Gulf Oil Corporation

CASE NO. 2751

EXHIBIT NO. 3

February 6, 1963

1800' for Tugle  
moor - dual dual U.P. and  
single to 7000' 12000'  
20000' 70000'

20000' 70000'

DRAFT

JMD/esr

February 18, 1963

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. 2751

Order No. R- 2430

*md*  
APPLICATION OF GULF OIL CORPORATION  
FOR A TRIPLE COMPLETION, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 8, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 \_\_\_\_\_ day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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 authority to complete its W. A. Ramsay (NCT-C) Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North Justis Field, through parallel strings of 2 3/8-inch tubing, separation of the zones to be achieved by ~~means of~~ packers set at approximately 7046 <sup>and</sup> ~~to~~ 8025 feet.

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to complete its W. A. Ramsay (NCT-C) Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North Justis Field, through parallel strings of 2 7/8-inch tubing, separation of the zones to be achieved by ~~means of~~ packers set at approximately 7046 <sup>and</sup> 8025 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~~ tests upon completion and annually thereafter during the gas oil ratio test period for the Waddell formation.

(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 herein-above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

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

**Gulf Oil Corporation**  
MAIN OFFICE OCC  
ROSWELL PRODUCTION DISTRICT

W. B. Hopkins  
DISTRICT MANAGER  
F. O. Mortlock  
DISTRICT EXPLORATION  
MANAGER  
M. I. Taylor  
DISTRICT PRODUCTION  
MANAGER  
H. C. Vivian  
DISTRICT SERVICES MANAGER

1963 JAN 11 AM 8:20

January 10, 1963

P. O. Drawer 1938  
Roswell, New Mexico

*Set for hearing*

*Case 2751*

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Re: Application of Gulf Oil Corporation for  
Approval of a Triple Completion in the  
North Justis-Fusselman, North Justis-  
Montoya and North Justis-Waddell Oil  
Pools, Lea County, New Mexico

Gentlemen:

Gulf Oil Corporation herewith submits application for approval of a triple completion for the W. A. Ramsay (NCT-C) Well No. 4, located 330 feet from the south line and 430 feet from the west line of Section 36, Township 24 South, Range 37 East, Lea County, New Mexico. It is proposed to complete this well in the North Justis-Fusselman, North Justis-Montoya and North Justis-Waddell Oil Pools and to produce each zone through parallel strings of 2-3/8 inch tubing installed in 7 inch casing.

Attached is completed form, Application for Multiple Completion, lease plat and diagrammatic sketch of the proposed multiple completion. It is requested that this matter be set for Examiner Hearing at an early date.

Respectfully submitted,

GULF OIL CORPORATION

*M. I. Taylor*  
M. I. Taylor

Attachments  
JHR:ers

cc: New Mexico Oil Conservation Commission  
Post Office Box 2045  
Hobbs, New Mexico

DOCKET MAILED

Date 1/23/63

✓ Offset Operators  
(Listed on Application for Multiple Completion)

GULF

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

## APPLICATION FOR MULTIPLE COMPLETION

5-1-61  
 MAIN OFFICE DEC  
 1963 JAN 11 AM 11:20

Operator <u>Gulf Oil Corporation</u>		County <u>Lea</u>	Date <u>January 10, 1963</u>
Address <u>Post Office Drawer 1938</u> <u>Roswell, New Mexico</u>		Lease <u>W. A. Ramsay (NCT-C)</u>	Well No. <u>4</u>
Location of Well <u>M</u>	Unit <u>36</u>	Township <u>24S</u>	Range <u>37E</u>

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	<u>North Justis-Fusselman</u>	<u>North Justis-Montoya</u>	<u>North Justis-Waddell</u>
b. Top and Bottom of Pay Section (Perforations)	<u>6988' - 6996'</u>	<u>7104' - 7114'</u>	<u>8110' - 8114'</u>
c. Type of production (Oil or Gas)	<u>Oil</u>	<u>Oil</u>	<u>Oil</u>
d. Method of Production (Flowing or Artificial Lift)	<u>Flow</u>	<u>Flow</u>	<u>Flow</u>

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

- Yes 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.
- Yes 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.
- No 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.\*
- No 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.

Texaco Inc., Post Office Box 3109, Midland, Texas

Fred Turner, Jr., Post Office Box 910, Midland, Texas

Sinclair Oil & Gas Company, Post Office Box 1470, Midland, Texas

Elliott, Inc., Post Office Box 5669, Roswell, New Mexico

Skelly Oil Company, Post Office Box 1650, Tulsa, Oklahoma

Hamilton Dome Oil Company, Ltd., 609 South Grand Avenue, Los Angeles, California

Amerada Petroleum Corporation, Post Office Box 2040, Tulsa, Oklahoma

6. Were all operators listed in item 5 above notified and furnished a copy of this application? YES X NO       . If answer is yes, give date of such notification January 10, 1963

CERTIFICATE: I, the undersigned, state that I am the Dist. Production Manager 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.

*M. I. Taylor*  
 M. I. Taylor 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 production unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





13-3/8" 484, H-40 Csg. Set at  
1000' cmtd.w/660 ex.cmt.circ.

9-5/8", 364, J-55 Csg. Set at  
3480' cmtd.w/350 ex.TSITC @ 2295'

2-3/8" Buttress-Thread  
Tbg. Set at 6977'

Brown Oil Tool Three String  
Tubing Anchor Set at 6977'

6983'  
6996' Fusselman Perforations

2-3/8" Buttress-Thread  
Tbg. Set at 7046'

Brown Oil Tool 2"x2"x7" Model  
DS-92H Short String Set Packer  
at 7046'

7104'  
7114' Montoya Perforations

7-5/8" & 7" Csg. Set at 8155'  
cmtd. in two stages with DV Tool  
at 6310' TSITC at 3675' & 6440'

2-3/8" Buttress-Thread  
Tbg. Set at 8025'

Baker Model "D" Pkr. Set at 8025'

8110'  
8114' Waddell Perforations

T. D. 8155'  
P. B. 8123'

PROPOSED MECHANICAL INSTALLATION  
OIL-OIL-OIL TRIPLE COMPLETION

W. A. RAMSAY (NCT-C) NO. 4

NORTH JUSTIS FUSSELMAN, NORTH JUSTIS MONTOYA  
AND NORTH JUSTIS WADDELL OIL POOLS

Lea County, New Mexico

Gulf Oil Corporation

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 6, 1963

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

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

- CASE 2746: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Continental National Insurance Group and all other interested parties to appear and show cause why the Kenneth V. Barbee Well No. 1, located 1980 feet from the South line and 660 feet from the East line of Section 9, Township 11 South, Range 25 East, NMPM, Chaves County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2747: Application of El Paso Natural Gas Company for cancellation of a non-standard gas proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks cancellation of a non-standard gas proration unit comprising the SW/4 of Section 23 and the NW/4 of Section 26, Township 31 North, Range 7 West, Blanco-Mesaverde Gas Pool, San Juan County, New Mexico, said unit having been established and designated Block "N" by Order No. R-1066.
- CASE 2480: (Reopened)  
In the matter of Case 2480 being reopened pursuant to the provisions of Order No. R-2182, which order established temporary 80-acre proration units for the Henshaw-Wolfcamp Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.
- CASE 2748: Application of Ralph Lowe for approval of a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Indian Hills Unit Area, comprising 4,480 acres of Federal and State lands in Township 21 South, Range 24 East, Eddy County, New Mexico.
- CASE 2749: Application of Ralph Lowe to create a new pool for Upper Pennsylvanian gas production, and for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Upper Pennsylvanian gas production in Sections 22 and 23, Township 21 South, Range 23 East and the establishment of temporary pool rules therefor, including a provision for 640-acre spacing units.

-2-

Docket No. 5-63

CASE 2750:

Application of Ralph Lowe to create a new pool for Morrow gas production, and for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Morrow production in Sections 22 and 23, Township 21 South, Range 23 East, and the establishment of temporary pool rules therefor, including a provision for 640-acre spacing units.

CASE 2751:

Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its W. A. Ramsay (NCT-C) Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North-Justis Field, Lea County, New Mexico.

CASE 2752:

In the matter of the hearing called by the Commission upon its own motion to allow all interested parties to appear and present evidence to determine the proper location of the survey line dividing Sections 3, 10, 15, 22, 27 and 34 from Sections 2, 11, 14, 23, 26, and 35, respectively, Township 10 South, Range 32 East, NMPM, Lea County, New Mexico. The Commission also will consider the approval of any non-standard location which might result from such determination.

iqg/

GOVERNOR  
JACK M. CAMPBELL  
CHAIRMAN

*State of New Mexico*  
**Oil Conservation Commission**



LAND COMMISSIONER  
E. B. JOHNNY WALKER  
MEMBER

P. O. BOX 871  
SANTA FE

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

February 21, 1963

Mr. Bill Kastler  
Mr. M. I. Taylor  
Gulf Oil Corporation  
Post Office Box 1938  
Roswell, New Mexico

Re: Case No. 2737  
2751  
Order No. B-2429 and B-2430  
Applicant:  
Gulf 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.*

A. L. PORTER, Jr.  
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC x

Aztec OCC       

OTHER

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE No. 2751  
Order No. R-2430

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 8, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 21st day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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 authority to complete its W. A. Ramsay (NCT-C) Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North Justis Field, through parallel strings of 2 3/8-inch tubing, separation of the zones to be achieved by packers set at approximately 7046 and 8025 feet.

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to complete its W. A. Ramsay (NCT-C) Well No. 4,

-2-

CASE No. 2751  
Order No. R-2430

located in Unit M of Section 36, Township 24 South, Range 37 East, ~~Turn~~, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North Justis Field, through parallel strings of 2 3/8-inch tubing, separation of the zones to be achieved by packers set at approximately 7046 and 8025 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 Gas-Oil Ratio Test Period for the Waddell formation.

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

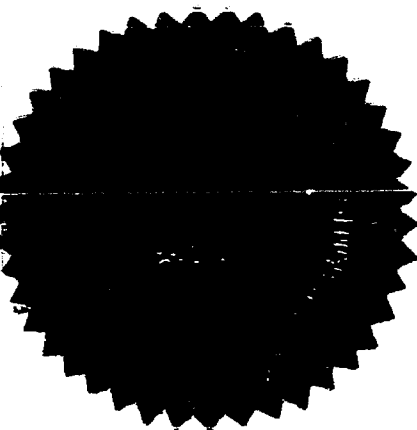
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*Jack M. Campbell*  
JACK M. CAMPBELL, Chairman

*E. S. Walker*  
E. S. WALKER, Member

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



esr/

ARMINGTON, N. M.  
PHONE 325-1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243 6691

**EXAMINER HEARING**

IN THE MATTER OF:

Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its W. A. Ramsay (NCT-C) Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, as a triple completion (conventional) to produce oil from the Fusselman, Montoya, and Waddell Pools, North-Justis Field, Lea County, New Mexico.

CASE 2751

Before: Daniel S. Nutter, Examiner

## TRANSCRIPT OF HEARING

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

The next case this morning will be Case 2751.

MR. DURRETT: Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico.

MR. KASTLER: Bill Kastler from Roswell, appearing on behalf of Gulf, and our witness will be John Hoover.

(Witness sworn.)

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

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, by whom you are employed and in what position?

A John Hoover, employed by Gulf Oil Corporation as District Production Engineer, Roswell, New Mexico.

Q Have you previously testified before the New Mexico Oil Conservation Commission and qualified as an expert witness as a petroleum engineer?

A Yes, sir.

MR. KASTLER: If the witness' qualifications are satisfactory, I would like to proceed.

MR. NUTTER: They are, and please do.

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

A We are requesting approval of a triple completion for the W. A. Ramsay (NCT-C) Well No. 4 in the Fusselman, Montoya, and Waddell Pools, North-Justis Field, Lea County, New Mexico.

Q Have you prepared a lease plat to illustrate the lease and well?

A Yes, sir. It is marked Exhibit No. 1. On this plat, the W. A. Ramsay (NCT-C) lease is outlined in red and described as Section 36, Township 24 South, Range 37 East. Well No. 4 is circled in red, and it's located 330 feet from the south line and 430 feet from the west line of this Section 36.

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243-6691

It might be noted on this exhibit there are two Well No. 4's. The one that is not circled in red is a Langley-Mattix well operated by a sub-lessee. Gulf's W. A. Ramsay (NCT-C) Well No. 4 was spudded on October 29, 1962. The drilling has been completed; however, the well is not completed as yet.

Q Have there been similar triple completions in this pool in the same three zones?

A To my knowledge, there has not been a similar triple; however, these zones are produced in other offset wells.

Q Which wells, referring to Exhibit No. 1?

A Texaco's G. L. Irwin No. 5, which is a west offset to our Well No. 4, is completed in the Fusselman, Waddell, and Montoya. In addition it is completed in the Blinebry. Amerada's State NJA Well No. 3 in the Northeast Quarter Northeast Quarter of Section 2, 25, 37, is completed in the Fusselman. The West States Petroleum -- or Williams Petroleum West States Federal No. 7, Northwest Quarter Northwest Quarter, Section 1, 25, 37, is in the Fusselman.

Q Will you please explain what is shown on Exhibit 2?

A Yes, sir. This Exhibit 2 is a log of the Ramsay "C" Well No. 4, and on this log we have listed the top of the producing formation. The top of the Fusselman is shown at 6811, the top of the Fusselman pay at 6947, the base of the Fusselman pay, 7,080 feet. The Fusselman perforations are 6988 to 6996. The top of the Montoya is shown at 7,098 feet, the base of the



Montoya pay, 7,165 feet. The existing Montoya perforations are 7,110 feet to 7,114 feet. The top of the Waddell pay is at 8,074 feet, the base of the Waddell pay, 8,120 feet. The Waddell perforations are 8,110 feet to 8,114 feet.

Q Will you please explain what is shown on Exhibit 3?

A Exhibit 3 is a schematic of the proposed triple completion, and it shows that we have 13-3/8 inch casing set at 1,000 feet. The cement was circulated. We have 9-5/8 inch casing set at 3480 feet, cemented with 350 sacks. Temperature survey indicated top of cement at 2295 feet. We have 7-5/8 and 7-inch casing set at 8155 feet, cemented in two stages with a D.C. tool at 6,310 feet; temperature survey indicated the top of the cement at 3675 feet and 6440 feet.

The total depth of the well was 8155 feet, plugged-back depth, 8123 feet. We will have a Baker Model "D" Packer set at 8,025 feet; a Brown Oil Tool Intermediate Production Packer set at 7,046 feet. We will have a parallel string anchor at 6,977 feet, three strings of 2-3/8 inch tubing; and the perforations for the Fusselman are shown as 6988 feet to 6996 feet. The Montoya perforations are 7,110 feet to 7,114 feet. The Waddell perforations are 8110 feet to 8114 feet. On the Montoya, we originally perforated 7104 to 7114. We ran the packer and we had indicated that we had communication between the Fusselman and the Montoya. We pumped 40 sacks of cement into the Montoya perforations and then re-perforated 7110 feet to 7114 feet. We

DEARNLEY-MEYER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325 1182

SANTA FE, N. M.  
PHONE 943 5971

ALBUQUERQUE, N. M.  
PHONE 243 6691

retested and we had no evidence of communication.

Q What bottom hole pressure and gravity information do you have as to each of these three zones?

A We have not obtained a bottom hole pressure in our well; however, we have obtained the reported bottom hole pressures in the Texaco's G. L. Irwin (NCT-2) Well No. 5, which, as previously stated, is a west offset to our Well No. 4. The Fusselman had a pressure of 2316 pounds at a datum, pool datum of a minus 3900 feet, a 50-hour close-in API gravity of 36 degrees. Montoya, 2458 pounds at a minus 3940 feet, 49-1/2 hour close-in API gravity, 43.1 degrees. The Waddell, 2481 pounds at a minus 5,093 feet, 49-hour close-in, the API gravity, 41-1/2 degrees.

Q Do you have any production tests on the W. A. Ramsay (NCT-C) Well No. 4?

A Yes, we had some tests made on our well; however, they are not final completion tests. On the Waddell, through the perforations 8110 feet to 8114 feet, it flowed 30 barrels of oil, no water; 2-3/8 inch tubing, 16/64-inch choke in 3-1/2 hours tubing pressure, 375 pounds. We had no measurement on the gas volume.

The Montoya, through the perforations 7110 feet to 7114 feet, it flowed 164 barrels of oil, 6 barrels of water; 2-3/8 inch tubing, through a 24/64 choke and a 14/64-inch choke in five hours, tubing pressure of 350 pounds; again no measurement on the gas volume.

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243-6691



The Fusselman, through the perforations 6988 to 6996 feet, flowed 103 barrels of oil, no water; 2-3/8 inch tubing, 22/64-inch choke in 15 hours, tubing pressure 300 pounds; again the gas volume was not measured.

Q Do you have any information concerning the economics involved in making the triple completion?

A We estimate the cost of the triple completion to be \$180,000. If we dualled a well in the Montoya and the Waddell, we estimate that cost would be \$160,000. A single zone well to the Fusselman would cost, is estimated to cost \$79,000. That would make a total for two wells of \$239,000. The resultant saving is estimated at \$59,000.

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

A Yes, sir.

Q Were Exhibits 1, 2, and 3 prepared at your direction and under your supervision?

A Yes, sir.

MR. KASTLER: This concludes my questions on direct examination, and I would like to move that Exhibits 1, 2, and 3 be admitted into evidence.

MR. NUTTER: Gulf's Exhibit 1 through 3 will be admitted into evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 3 admitted in evidence.)



## CROSS EXAMINATION

BY MR. NUTTER:

Q I take it by squeezing the perforations in the Montoya after you had the communication between the Fusselman and Montoya, you thought the communication was not in the packer but behind the pipe?

A Yes, when we had the indication we had communication, we first thought it was around the packer; but it was established it was not around the packer but outside the pipe. We set a packer -- I can give you our procedure for squeezing it off, if you would like.

Q All right, sir.

A After we determined that we did not have communication around the packer, our corrective measure, we set a retrievable plug at 7200 feet and then we dumped 50 feet of sand on top, which brought the sand up to 7155 feet. We set a cement retainer at 7,050 feet. We pumped through the retainer at a rate of four barrels per minute with 1,000 pounds and fluid circulated, that was up through the tubing casing annulus, and then we pumped 40 sacks of cement into the Montoya perforations at 2,000 pounds. The casing valve was open, the fluid was returning by the casing during that operation.

After the cement set, we went back in and drilled out stringers and the solid cement, the retainer, cleaned out to the bottom plug, and then we ran a Baker four bore packer set at,

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243-6041



rental tubing, and set it at 7,242 feet which would be between the Fusselman and Montoya. We pressured the tubing to 1200 pounds with the casing tubing annulus loaded and the casing valve opened, and there was no circulation.

Q Has the packer leakage test been run since you set this Baker Model "DS" 92 short string packer at 7046?

A No, sir, we were in the process of running a packer leakage test when this evidence of communication became known. We have now, of course, corrected the communication; and as of yesterday, they were going back in the hole with their triple completion equipment and they will rerun a packer leakage test; and we did, before we reran the triple completion equipment set a packer between the Fusselman and the Montoya, and swabbed the Montoya off and flowed it and watched the casing pressure, which would have been the Fusselman; and there was no change. So it indicated we had our communication sealed off, and like I say, a packer leakage test will be started again.

Q What does the Model 92 Brown Packer rely on for seating; is that set by hydraulic mechanism or tension or compression or what?

A Compression. It's set by compression on the short string. It has the hydraulic hold-down, which is set hydraulically to hold the packer in place against, what they say, high differential pressure so it cannot move.

Q You have approximately 140 pounds of differential

across that?

A It's small, yes, sir.

Q Retrievable packer, then?

A That's right.

MR. NUTTER: Any other questions of Mr. Hoover? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Kastler?

MR. KASTLER: Nothing further.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2751? We will take the case under advisement.

\* \* \*

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

SAN JUAN, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243-6651



STATE OF NEW MEXICO )  
 ) ss  
COUNTY OF BERNALILLO )

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

WITNESS my Hand and Seal this 12th day of February, 1963.

*Ada Dearnley*  
NOTARY PUBLIC

My Commission Expires:  
June 19, 1963.

I do hereby certify that the foregoing is a complete and correct transcript of the hearing held by me on 2/6 1963 at 2751 63 63  
*Ada Dearnley*  
New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325 1182

SANTA FE, N. M.  
PHONE 983-3971

ALBUQUERQUE, N. M.  
PHONE 243 6691