

CASE 2309: Application of TEXACO
for an oil-oil-oil triple comple-
tion, Lea County, New Mexico.

-asa//o.

2309

Application, Transcript,
and Exhibits, Etc.

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission



P. O. BOX 871
SANTA FE

July 7, 1961

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER

Mr. Charlie White
Gilbert, White & Gilbert
P. O. Box 787
Santa Fe, New Mexico

Re: CASE NO. 2309

ORDER NO. R-2014

APPLICANT:

Texaco Inc.

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
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. 2309
Order No. R-2014**

**APPLICATION OF TEXACO INC.,
FOR AN OIL-OIL-OIL TRIPLE
COMPLETION (CONVENTIONAL)
IN THE SUNMONT GAS POOL,
THE PENROSE-SHELLEY POOL,
AND THE DRINKARD POOL,
LEA COUNTY, NEW MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 28, 1961, at Santa Fe, New Mexico, before Elvis A. Uts, 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 7th day of July, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Uts, 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, Texaco Inc., is the owner and operator of the C. P. Falby (a) Well No. 4, located in Unit E, Section 8, Township 22 South, Range 37 East, NNPM, Lea County, New Mexico.
- (3) That the applicant proposes to complete the above-described C. P. Falby (a) Well No. 4 as a triple completion (conventional) in such a manner as to permit the production of oil from the Sunmont Gas Pool, the production of oil from the Penrose-Shelley Pool, and the production of oil from the Drinkard Pool, utilizing three parallel strings of 2 3/8-inch tubing.
- (4) That the mechanics of the proposed triple 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.

-2-
CASE No. 2309
Order No. R-2014

IT IS THEREFORE ORDERED:

That the applicant, Texaco Inc., is hereby authorized to complete its C. P. Falby (a) Well No. 4, located in Unit E, Section 8, Township 23 South, Range 37 East, NEPM, Lea County, New Mexico, as a triple completion (conventional) in such a manner as to permit the production of oil from the Humont Gas Pool, the production of oil from the Penrose-Shelly Pool, and the production of oil from the Drinkard Pool through parallel strings of 2 3/8-inch tubing with permanent type packers to be set at depths of 3550 feet and 3775 feet.

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

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 Drinkard Pool, or at such other times as the Secretary-Director of the Commission may prescribe.

IT IS FURTHER ORDERED:

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



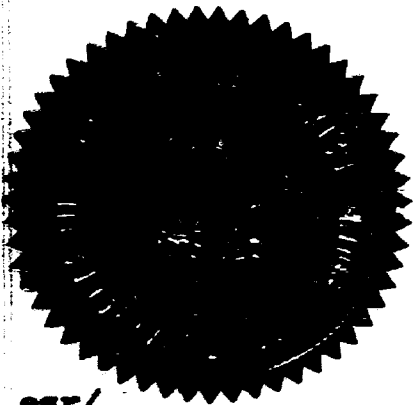
EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



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



DOCKET: EXAMINER HEARING - WEDNESDAY, JUNE 28, 1961

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, as alternate Examiner:

CONTINUED CASE

CASE 2298: Application of Chambers & Kennedy for a gas-oil dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Monument State Well No. 1, located in Unit J, Section 34, Township 19 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Eumont Gas Pool and the production of oil from the Eunice-Monument Pool through the 5½-inch by 2½-inch casing-tubing annulus and through 2½-inch tubing respectively.

NEW CASES

CASE 2309: Application of Texaco Inc. for an oil-oil-oil triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its C. P. Falby (a) Well No. 4, located in Unit E, Section 8, Township 22 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in the Eumont Gas Pool, the Penrose-Skelly Pool, and the Drinkard Pool, the production of oil from each pool to be through parallel strings of 2 3/8-inch tubing.

CASE 2310: Application of Standard Oil Company of Texas for permission to transfer allowables, Lea County, New Mexico. Applicant, in the above-styled cause, during vertical communication tests, seeks permission to transfer allowables in the Vacuum Abo Pool for a 120-day period from its Vac-Edge Unit Well No. 4, located in the NW/4 NE/4 of Section 4, Township 18 South, Range 35 East, Lea County, New Mexico, to its Vac-Edge Unit Wells Nos. 3 and 6, located in the NE/4 NW/4 of said Section 4 and in the NE/4 NE/4 of said Section 4, respectively.

CASE 2311: Application of Continental Oil Company for an oil-oil dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Britt B-15 Well No. 10, located in Unit F, Section 15, Township 20 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in an undesignated Blinebry Pool and in the Monument-Tubb Pool, the production of oil from each pool to be through parallel strings of 2-inch tubing.

- CASE 2312: Application of Continental Oil Company for an exception to Rule 309 (a), Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 309 (a) to permit the commingling, after separate measurement, of the Maljamar-Paddock Pool production from the William Mitchell "A" lease, consisting of the N/2 of Sections 19 and 20, and from the William Mitchell "B" lease, consisting of the E/2 and the W/2 E/2 of Section 17, the E/2 and the E/2 W/2 of Section 18, and the S/2 of Sections 19 and 20, all in Township 17 South, Range 32 East, Lea County, New Mexico.
- CASE 2313: Application of W. W. Holmes for an order fixing the spacing of wells, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks an order fixing the spacing of wells producing from the Mesaverde formation in the N/2 of Section 11, Township 18 North, Range 3 West, Sandoval County, New Mexico. Applicant recommends the establishment of two and one-half acre well spacing with no increase in the allowable to be assigned a basic 40-acre oil proration unit.
- CASE 2314: Application of Shell Oil Company for an exception to the gas-oil ratio provisions of Rule 26 (A), Order No. R-1670, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the gas-oil ratio provisions of Rule 26 (A), Order No. R-1670, to permit its Shell State Well No. 1-A, located 380 feet from the North line and 380 feet from the West line of Section 36, Township 24 South, Range 36 East, Lea County, New Mexico, to remain classified as a gas well in the Jalmat Gas Pool, with a gas-oil ratio below 100,000: 1.
- CASE 2315: Application of Pan American Petroleum Corporation for a non-standard oil proration unit and for an unorthodox oil well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of an 86.62-acre non-standard oil proration unit in the Totah-Gallup Oil Pool consisting of Lots 2, 3 and 4 of Section 12, Township 28 North, Range 13 West, San Juan County, New Mexico, to be dedicated to the Gallegos Canyon Unit Well No. 100 at an unorthodox location 476 feet from the North line and 1980 feet from the West line of said Section 12.
- CASE 2316: Application of Pan American Petroleum Corporation for permission to dispose of salt water into the Wolfcamp formation, Lea County, New Mexico. Applicant, in the above-styled

CASE 2316:
(Cont.)

cause, seeks permission to dispose of produced salt water into the Wolfcamp formation through its Lois Wingerd Well No. 8 located 660 feet from the South and East lines of Section 24, Township 12 South, Range 37 East, Gladiola-Wolfcamp Pool, Lea County, New Mexico.

CASE 2317:

Application of Pan American Petroleum Corporation for a pressure maintenance project in the Horseshoe-Gallup Oil Pool, San Juan County, New Mexico, and for special rules governing said project. Applicant, in the above-styled cause, seeks permission to institute a pressure maintenance project in the Horseshoe-Gallup Oil Pool by the injection of water into certain Northeast Hogback Unit wells in Sections 10, 11, 13, 14, 15 and 24, all in Township 30 North, Range 16 West, San Juan County, New Mexico. Applicant further seeks special rules governing the operation of said project.

CASE 2318:

Application of El Paso Natural Gas Products Company for an order force-pooling a non-standard oil proration unit in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Cha Cha-Gallup Oil Pool lying North of the mid-channel of the San Juan River in the SE/4 of Section 17, Township 29 North, Range 14 West, San Juan County, New Mexico. Interested parties include Humble Oil & Refining Company, Pan American Petroleum Corporation, and A. L. Duff.

CASE 2319:

Application of Tenneco Oil Company for a non-standard oil proration unit and for permission to commingle the production from separate leases, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 90.5-acre non-standard oil proration unit in the Cha Cha-Gallup Oil Pool consisting of lots 3 and 4 and the E/2 SW/4 of Section 31, Township 29 North, Range 13 West, San Juan County, New Mexico. Applicant further seeks permission to commingle the Gallup oil production from the subject unit with other Gallup oil production from the E/2 W/2 and from the E/2 of said Section 31 after separately metering the production from each area.

CASE 2320:

Application of R. C. Banks for approval of the High Point Unit Agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the High Point Unit

CASE 2320:
(Cont.)

Agreement, which unit embraces 1920 acres of State land in Township 11 South, Ranges 34 and 35 East, Lea County, New Mexico.

The following cases will not be heard before 1:30 P.M.

CASE 2321:

Application of Benson-Montin-Greer Drilling Corporation for an unorthodox oil well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location in the Cha Cha-Gallup Oil Pool for its Jones Well No. 7, located 1200 feet from the North line and 900 feet from the West line of Section 15, Township 28 North, Range 13 West, San Juan County, New Mexico.

CASE 2322:

Application of Southwest Production Company for an unorthodox oil well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location in the Cha Cha-Gallup Oil Pool for a well to be drilled 2260 feet from the North line and 330 feet from the West line of Section 16, Township 29 North, Range 14 West, San Juan County, New Mexico.

CASE 2323:

Application of Southwest Production Company for two non-standard oil proration units and for an unorthodox oil well location in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of two non-standard oil proration units in the Cha Cha-Gallup Oil Pool, San Juan County, New Mexico, one unit consisting of the West 56.625 acres and one unit consisting of the East 56.625 acres of that portion of the SE/4 of Section 16, Township 29 North, Range 14 West, lying North of the mid-channel of the San Juan River; the West proration unit is to be dedicated to a well to be drilled at an unorthodox location 1912 feet from the South line and 2310 feet from the East line of said Section 16.

CASE 2324:

Application of Aztec Oil & Gas Company for an order force-pooling a standard 320-acre gas proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in a standard 320-acre gas proration unit in the Basin-Dakota Gas Pool, consisting of the N/2 of Section 2, Township 29 North, Range 12 West, San Juan County, New Mexico.

CASE 2325:

Application of Aztec Oil & Gas Company for a non-standard oil proration unit in the Totah-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause,

CASE 2325:
(Cont.)

seeks the establishment of an 86.13-acre non-standard oil proration unit in the Totah-Gallup Oil Pool, consisting of Lot 1, the NE/4 NW/4 and the NW/4 NE/4 of Section 30, Township 29 North, Range 13 West, San Juan County, New Mexico, to be dedicated to the Hagood Well No. 28-G located 765 feet from the North line and 3175 feet from the East line of said Section 30.

CASE 2326:

Application of David Fasken for permission to drill directionally, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks permission to sidetrack and recomplete the David Fasken-King-Davis Well No. 2, located 1980 feet from the North line and 1980 feet from the West line of Section 27, Township 8 South, Range 37 East, Roosevelt County, New Mexico, in such a manner as to locate the bottom of the hole in the Bough "C" formation of the Bluit-Pennsylvanian Pool 300 feet West of said surface location.

CASE 2327:

Application of the Oil Conservation Commission on its own motion to consider the establishment of non-standard gas proration units for the Basin-Dakota Pool in Townships 29, 30, 31 and 32 North, Ranges 4, 5, 6, 7, 8, 9, 11, 12, 13 West, San Juan and Rio Arriba Counties, New Mexico. Said non-standard units are necessitated by irregular sections resulting from survey corrections in the United States Public Lands Survey.

DOCKET: EXAMINER HEARING - WEDNESDAY, JUNE 28, 1961

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2309

TEXACO
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION



P. O. BOX 8100
MIDLAND, TEXAS

May 31, 1961

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

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

Gentlemen:

TEXACO Inc. respectfully requests a hearing be set to consider its application to triple complete its C. P. Falby (a) Well No. 4 in the Penrose-Skelly, Eumont (Oil), and Drinkard pools. All three completions are anticipated to be oil and will be produced through parallel strings of 2-3/8" OD tubing. In support of our application we wish to state the following facts:

1. TEXACO Inc. is the operator of its 160 acre C. P. Falby (a) Lease located in Section 8, T-22-S, R-37-E, Lea County, New Mexico.
2. The Eumont is anticipated to be an oil completion and will be perforated from 3450'-3550'.
3. The Penrose-Skelly is anticipated to be an oil completion and will be perforated 3680'-3730'.
4. The Drinkard is anticipated to be an oil completion and will be perforated from 6480'-6530'.
5. It is anticipated that the Grayburg zone in the Penrose-Skelly Pool will be produced by artificial lift and the other two zones will flow upon completion.
6. The New Mexico Oil Conservation Commission has previously approved a triple completion in these

Handwritten note:
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mailed
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JH

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same pools by Order No. R-1753 for TEXACO's
C. P. Falby (b) Well No. 4 located in Section 8,
T-22-S, R-37-E, Lea County, New Mexico.

Attached in triplicate are an Application for Triple
Completion, a plat of the C. P. Falby (a) Lease and offset leases,
and a diagrammatic sketch of the triple completion installation.
It is requested that this hearing be set on your Examiner Hearing
set for June 28, 1961.

Very truly yours,

J. E. Robinson, Jr.
J. E. Robinson, Jr.
Division Proration Engineer

JERjr.-MM
Attach.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

Triple APPLICATION FOR DUAL COMPLETION

Field Name Eumont(Oil), Penrose-Skelly and Drinkard		County Lea	Date May 30, 1961
Operator TEXACO Inc.		Lease C. P. Falby (a)	Well No. 4
Location of Well	Unit E	Section 8	Township 22-S
		Range 37-E	

1. Has the New Mexico Oil Conservation Commission heretofore authorized the triple completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO _____
2. If answer is yes, identify one such instance: Order No. R-1753; Operator, Lease, and Well No.:
TEXACO Inc. C. P. Falby (b) Well No. 4, 1980' FSL 660' FWL, Section 8, T-22-S, R-37-E

3. The following facts are submitted:	Upper Zone	Middle Zone	Lower Zone
a. Name of reservoir	Penrose	Grayburg	Drinkard
b. Top and Bottom of Pay Section (Perforations)	3450-3550	3680-3730	6480-6530
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing(Est.)	Artificial Lift(Est.)	Flowing(Est.)

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

- Yes a. Diagrammatic Sketch of the triple Dual Completion, showing all casing strings, including size and setting, 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 dual 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.

Shell Oil Company, P. O. Box 845, Roswell, New Mexico
 Gulf Oil Corporation, P. O. Box 1938, Roswell, New Mexico
 Pan American Petroleum Corporation, P. O. Box 268, Lubbock, Texas
 Guy R. Zachry, 216 W. Broadway, Hobbs, New Mexico
 Texas Pacific Coal and Oil Company, P. O. Box 1688, Hobbs, New Mexico
 Carper Drilling Company, Inc., 200 Carper Building, Artesia, New Mexico
 Ohio Oil Company, P. O. Box 2107, Hobbs, New Mexico
 Continental Oil Company, P. O. Box 68, Eunice, New Mexico

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

Division

CERTIFICATE: I, the undersigned, state that I am the Proration Engineer of TEXACO Inc.

(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.

J. E. Robinson, Jr.
 J. E. Robinson, Jr. 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 dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
JUNE 28, 1961

EXAMINER HEARING

IN THE MATTER OF

CASE 2309:

Application of Texaco Inc. for an oil-
oil-oil triple completion, Lea County,
New Mexico.

TRANSCRIPT OF HEARING

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
JUNE 28, 1961

EXAMINER HEARING

IN THE MATTER OF

CASE 2309: Application of Texaco Inc. for an oil-oil-oil triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its C. P. Falby (a) Well No. 4, located in Unit E, Section 8, Township 22 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in the Eumont Gas Pool, the Penrose-Skelly Pool, and the Drinkard Pool, the production of oil from each pool to be through parallel strings of 2 3/8-inch tubing.

BEFORE:

Mr. Elvis A. Utz, Examiner.

T R A N S C R I P T O F P R O C E E D I N G S

MR. UTZ: Case 2309.

MR. MORRIS: Application of Texaco Inc. for an oil-oil-oil triple completion, Lea County, New Mexico.

MR. WHITE: Charles White of Gilbert, White & Gilbert, appearing on behalf of the applicant. We have one witness to be sworn at this time.

MR. UTZ: Are there other appearances to be made in this



case? If not, you may proceed.

(Witness sworn)

J. E. ROBINSON, JR.,

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

DIRECT EXAMINATION

BY MR. WHITE:

Q Mr. Robinson, will you state your full name, for the record, please?

A J. E. Robinson, Jr.

Q By whom are you employed, and in what capacity?

A I am employed by Texaco, Inc. as Division Proration Engineer.

Q Are you familiar with the subject application?

A Yes, sir, I am.

Q Have you previously testified as an expert witness, as a petroleum engineer, before the Commission?

A Yes, I have.

Q Have your qualifications been accepted?

A Yes, sir, they have.

Q Will you briefly state what Texaco seeks by the subject application?

A Texaco proposed to triply complete its C. P. Falby (a) Well No. 4 as an oil-oil-oil completion in the Penrose-Skelly in the Eumont and the Drinkard Oil Pools.

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PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO



(Whereupon, Texaco's Exhibits Nos. 1 and 2 were marked for identification).

Q Will you refer to Exhibit No. 1, and state the location of the subject well?

A Texaco's C. P. Falby (a) Well No. 4 has been drilled at a location 1980 feet from the North line, and 660 feet from the West line of Section 8, Township 22 South, Range 37 East, Lea County, New Mexico. On this plat we have outlined Texaco's acreage in yellow. The Falby (a) lease consists of the northwest quarter of Section 8. On the plat we list all wells completed in the area with the legend showing the pools that the wells are completed in. We also show all offsetting operators with their names and addresses.

Q Are all the zones, in which you intend to complete, productive within this area?

A Yes, sir, they are. On the Falby (a) lease, at the present time, we have two Drinkard wells, and one Penrose-Skelly well, and then to the immediate south of this lease, we have our C. P. Falby (b) lease where we have Penrose-Skelly and Eumont oil and a Drinkard well on this lease. So, all of the zones that we propose to complete in are productive in the immediate area.

Q Does Texaco have a similar completion in this area in which you now propose?

A Yes, sir, we have a completion that is almost identical. The well to the immediate south, the south offset from the subject



well is a triple completion in the same reservoirs that we propose to triply complete the subject well.

Q Is that the C. P. Falby (b) No. 4?

A Yes.

Q When was that triple completion approved by the Commission?

A It was approved by the Commission's Order R-1753, dated August 23, 1960.

Q What is the present status of the subject well?

A The well has been drilled to T.D. The casing has been set, and we are presently completing in the Drinkard formation.

Q Will you now refer to what's been marked Exhibit 2, and explain it to the Examiner, please?

A Exhibit No. 2 is a schematic diagram of the proposed triple completion installation. The well has been drilled to T.D. and the casing has been set. We drilled a 15-inch hole to 340 feet, and set 10 3/4-inch casing at 339 feet with 300 sacks. The hole size was reduced. We drilled a 9 7/8-inch hole to 3944, and we set 7 5/8-inch casing at 3943, with 1200 sacks. I would like to point out that the Exhibit shows that we were going to set the 7 5/8 at 3925 feet. Of course, this plat was prepared before the well was drilled, and there is a small discrepancy in the casing point of the 7 5/8, but after we set the 7 5/8-inch casing, we reduced the hole size again, and drilled a 6 3/4-inch hole to 6555, and we set a 4 1/2-inch liner at 6554, and it was hung at 3883. We cemented around the bottom of the 4 1/2-inch liner with 200 sacks,



and then we squeezed the top of the liner with 200 sacks of cement.

MR. WHITE: At this time we would like to amend the Exhibit to show that the 7 5/8 was set at 3943 instead of 3945.

MR. UTZ: Is that 3943?

MR. WHITE: Yes, 3943.

MR. UTZ: So amended.

Q (By Mr. White) What are the actual perforation points of the Drinkard zone?

A Presently we have perforated the Drinkard, and we are attempting our completion in the Drinkard at this time. Our actual perforations in the Drinkard are from 6455 to 6459 feet; from 6473 to 6482 feet; from 6491 to 6500 feet; and from 6514 to 6518 feet.

Q What does the Exhibit show the perforations as being?

A The Exhibit shows the proposed perforations to be from 6480 to 6530.

MR. WHITE: Would you like the Exhibit to be corrected in that respect?

MR. UTZ: Would you state those figures again?

A 6455 to 6459; 6473 to 6482; 6491 to 6500; 6514 to 6518.

Q What do you anticipate the reservoir characteristics to be in this zone?

A We anticipate the crude to be an intermediate sweet type crude, having a gravity of 37 degrees at 60 degrees. The anticipated bottom hole pressure of this zone will be approximately 2300



pounds. Our C. P. Falby (b) No. 4, the immediate south offset, when it was completed, it had a pressure of 2298 PSI. The gas-oil ratio will be within the range of 2000 to 2500 cubic feet per barrel, and we anticipate the Drinkard to flow, and we would estimate that it would flow for approximately ten years.

Q Will you state what the perforation points will be in the Penrose-Skelly?

A We propose to perforate the Penrose-Skelly from 3680 to 3730.

Q What characteristics do you expect the crude to be?

A The Penrose-Skelly producing from the Grayburg will have a sour type crude. It will have a gravity of approximately 35 degrees. The bottom hole pressure is estimated to be at 955 PSI. The gas-oil ratio, the initial ratio will be approximately 5700 cubic feet per barrel, and will increase as the zone is produced, and we will initially anticipate to pump this horizon.

Q What are the perforation points of the Eumont?

A We anticipate that the Eumont will be perforated from 3450 to 3550.

Q What are the crude characteristics anticipated to be?

A The crude is anticipated to be a sour type crude, having a gravity of 34 degrees. It will have a bottom hole pressure, approximately 730 pounds per square inch. The gas-oil ratio will be high, at approximately 44,000 to 1, and this zone will flow until depletion.

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Q Is there a log available at this time?

A No, sir, there is not. We have field prints, but our finished logs have not been received in our office. However, they will be submitted when we submit the packer leakage tests, and the other required data for this triple.

Q Will you describe the down-hole equipment which you propose to install in this well?

A Our down-hole equipment will consist of two permanent type packers. We will set a Baker Model "F" packer at 3775 feet, and then we will set a Baker Model "F.A." packer at 3650 feet, with the Baker Model "F" packer being located between the Drinkard and Penrose-Skelly, and the Baker Model "F.A." being located between the Penrose-Skelly and the Eumont Pool. We will then make up on our long string a dual zone flow tube. It will be run in on the long string, and the flow tube will be latched into the Baker Model "F.A." packer at 3650. Then, we will have proper spacing nipples and seals where we will seal off between the Drinkard and the Penrose-Skelly across the Baker Model "F" packer. After we latch the dual zone flow tube into the Baker Model "F.A." packer, we will then run our intermediate string of tubing, which will consist of 2 3/8-inch OD tubing, and it will be latched into the Baker Model "F.A." packer at 3650. Then, after we run our intermediate string of tubing, we will run our short string of tubing, and it will be hung freely within the well bore from which we can produce the Eumont.



Q Mr. Robinson, should it become necessary to pump the Drinkard, will it be possible to do so?

A Yes, sir. The dual zone flow tube is a full opening tube, and this permits a pump to be run through the flow tube. The pump can be seated into a nipple at the bottom of the long string, and we can produce the Drinkard by pumping, when it becomes necessary.

Q You have indicated that the Eumont and the Penrose-Skelly may be sour crude. What precautions, if any, does Texaco intend to take to meet with this situation?

A We plan no special protective equipment for this. Our experience has been that while these crudes are sour, they are not corrosive to the extent that it would require special equipment for these two crudes.

Q Will you take coupon tests?

A Yes. From time to time we will take coupon tests to see if corrosion is occurring. If any pitting is occurring, and if we should encounter any corrosion, well, then, we will start an inhibitor squeeze type protective program for these zones. The only special coating that we did plan to do, we will internally plastic coat the upper 1500 feet of the Eumont tubing string to eliminate some of the problems that we have encountered in the Eumont due to paraffin.

Q Were these Exhibits prepared by you or under your direction?

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A Yes, sir, they were.

MR. WHITE: At this time we offer Exhibits 1 and 2.

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

(Whereupon, Texaco's Exhibits Nos. 1 and 2 were received in evidence.)

MR. WHITE: Do you have any further testimony to offer at this time?

A No, sir, I have nothing.

MR. WHITE: That concludes our direct.

CROSS-EXAMINATION

BY MR. UTZ:

Q Mr. Robinson, would you give me the bottom hole pressure of the Drinkard again?

A The Drinkard will have a bottom hole pressure, roughly, from 2290 to 2300. Our C. P. Falby (b) No. 4 has a bottom hole pressure of 2298; upon completion, it will be in that range.

Q And did you give the gravity?

A Yes, sir. 37 degrees.

Q This was an intermediate crude?

A This is an intermediate sweet crude.

Q Did you give the gravity on the Eumont crude?

A The Eumont is a sour crude, having a gravity of 34 degrees.

Q Your overlap between your 7 5/8 liner is about 68 feet,



is that correct?

A The actual $4\frac{1}{2}$ was set at 3883, and the bottom of the 7 5/8 was at 3943.

Q 50 feet?

A 50 feet overlap.

Q That was squeezed?

A Yes, sir, it was squeezed with 200 sacks.

MR. UTZ: That is all. Any further questions of the witness?

MR. MORRIS: Yes.

BY MR. MORRIS:

Q Mr. Robinson, I believe you stated that the Falby (b) Well No. 4 was completed in the same zone as your proposed well here today.

A Yes, sir.

Q And you stated that it was completed in substantially the same manner as the proposed installation here.

A Yes, sir, that is correct.

Q In what ways does it deviate?

A The only ways that it deviates, we set a Baker Model "D" packer inside the liner on our C. P. Falby (b) No. 4, whereas we are setting a Baker Model "F" packer up in the 7 5/8-inch casing here. We're doing this for two reasons: A Baker Model "D" packer, the minimum ID on the setting $4\frac{1}{2}$ is 1.97 inches, and with a Model "F" packer you can get a bore hole much larger than the 2-inch,



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that would accommodate running 2 3/8-inch tubing through the Model "F" packer, and then also we did have a little bit of trouble getting our Baker Model "D" packer down into our liner. We got it set all right, but we were just sitting this Model Baker "F" packer in the 7 5/8 rather than trying to get, you know, inside the liner with the Baker Model "D" packer.

Q You experienced no packer difficulty once you got it installed on the other well?

A No, sir. Well, once we got it down, everything was all right then.

MR. MORRIS: Thank you.

MR. UTZ: Any other questions? If not, the witness may be excused.

(Witness excused)

MR. UTZ: Any other statements in this case? The case will be taken under advisement.



STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

I, ADA DEARNLEY, Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript 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 2nd day of July, 1961, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Ada Dearnley
NOTARY PUBLIC

My Commission expires:

June 19, 1963

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7309, heard by me on June 28, 1961.

Thurman R. ..., Examiner
New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CN 3-6691

ALBUQUERQUE, NEW MEXICO



NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

Triple

APPLICATION FOR DUAL COMPLETION

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. _____

CASE NO. _____

Field Name Eumont(Oil), Penrose-Skelly and Drinkard		County Lea	Date May 30, 1961
Operator TEXACO Inc.		Lease C. P. Falby (a)	Well No. 4
Location of Well Unit E	Section 8	Township 22-S	Range 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO _____ triple
2. If answer is yes, identify one such instance: Order No. R-1753; Operator, Lease, and Well No.:
TEXACO Inc. C. P. Falby (b) Well No. 4, 1980' FSL 660' FWL, Section 8, T-22-S, R-37-E

3. The following facts are submitted:	Upper Zone	Middle Zone	Lower Zone
a. Name of reservoir	Penrose	Grayburg	Drinkard
b. Top and Bottom of Pay Section (Perforations)	3450-3550	3680-3730	6480-6530
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing(Est.)	Artificial Lift(Est.)	Flowing(Est.)

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

- Yes a. Diagrammatic Sketch of the Triple Dual Completion, showing all casing strings, including size and setting, 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 dual 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.

Shell Oil Company, P. O. Box 845, Roswell, New Mexico
 Gulf Oil Corporation, P. O. Box 1938, Roswell, New Mexico
 Pan American Petroleum Corporation, P. O. Box 268, Lubbock, Texas
 Guy R. Zachry, 216 W. Broadway, Hobbs, New Mexico
 Texas Pacific Coal and Oil Company, P. O. Box 1688, Hobbs, New Mexico
 Carper Drilling Company, Inc., 200 Carper Building, Artesia, New Mexico
 Ohio Oil Company, P. O. Box 2107, Hobbs, New Mexico
 Continental Oil Company, P. O. Box 68, Eunice, New Mexico

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

Division

CERTIFICATE: I, the undersigned, state that I am the Proration Engineer of TEXACO Inc.

(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.

J. E. Robinson, Jr.
 J. E. Robinson, Jr. 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 dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

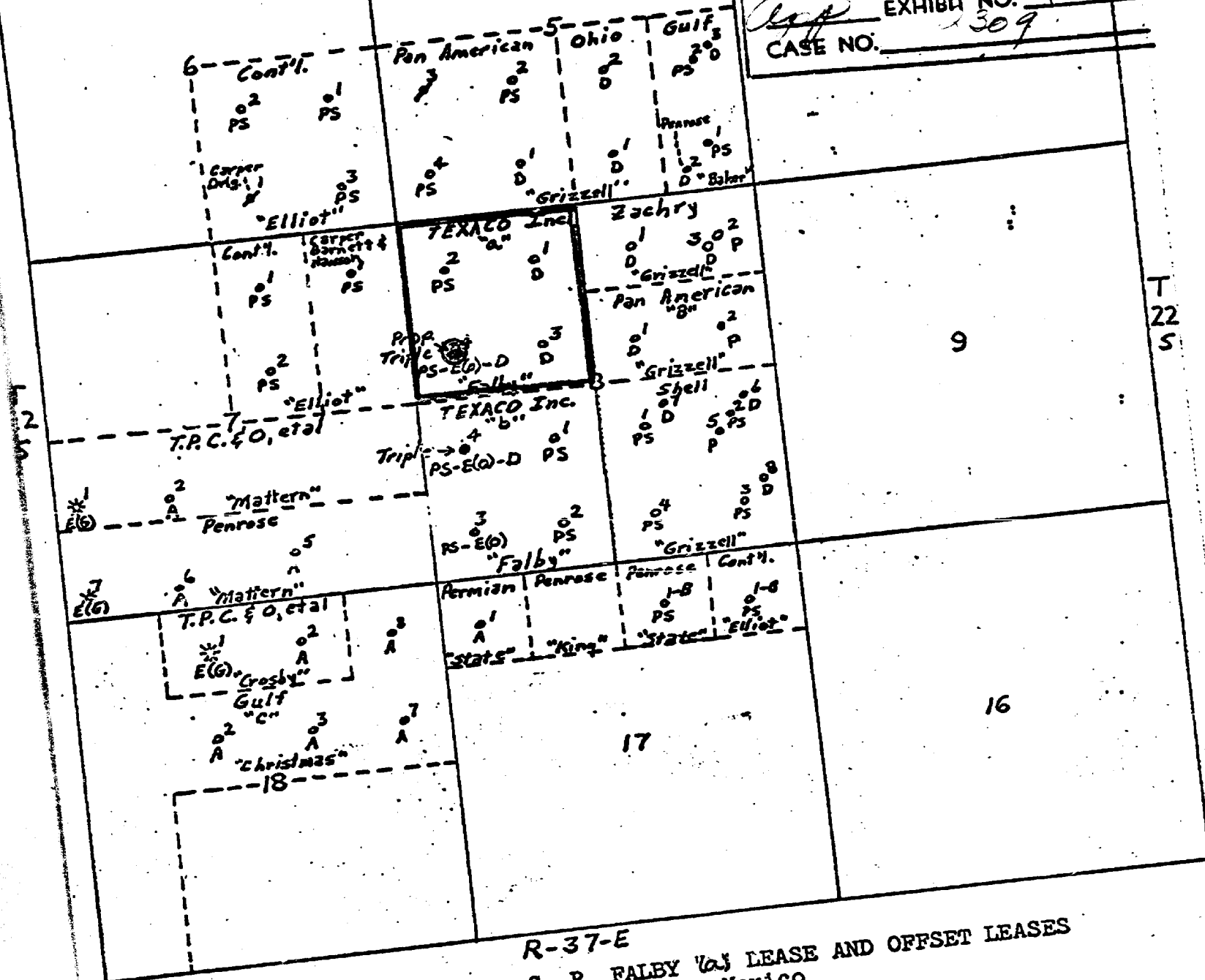
R-37-E

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 1

CASE NO. 309



PLAT OF TEXACO Inc. C. P. FALBY & LEASE AND OFFSET LEASES
Lea County, New Mexico
Scale: 1" = 2000'
LMF 5-30-64

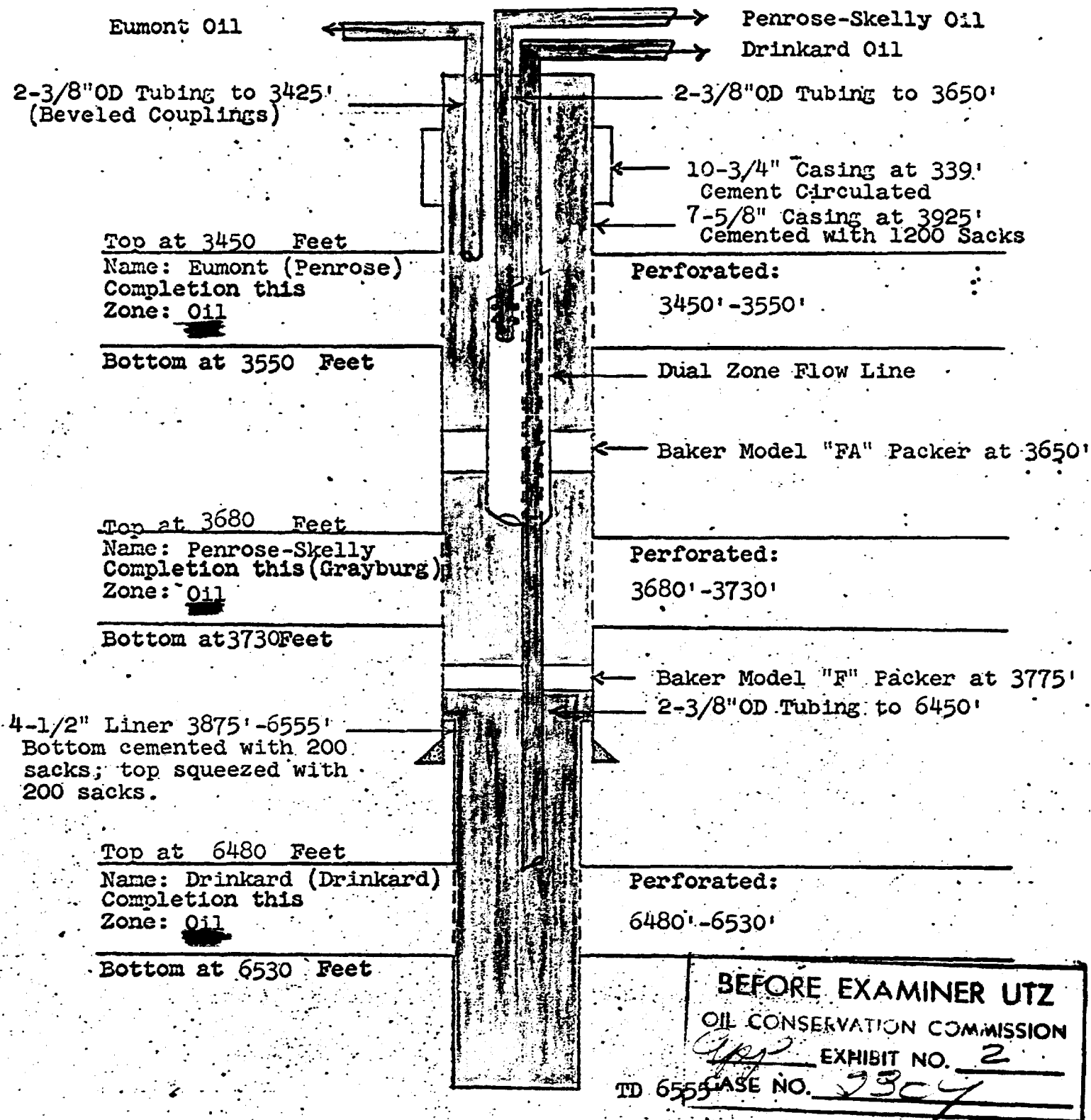
LEGEND

PS... Penrose Skelly Pool
E(G)... Eumont (Gas) Pool
E(O)... Eumont (Oil) Pool
A... Arrowhead Pool
D... Drinkard Pool
P... Paddock Pool

OFFSET OPERATORS

Shell Oil Co., P. O. Box 845, Roswell, N. Mex.
Pan American Pet. Corp., Box 268, Lubbock, Tex.
Ohio Oil Company, Box 2107, Hobbs, New Mexico
Guy R. Zachry, 216 W. Broadway, Hobbs, New Mexico
Neville G. Penrose, Inc., Box 988, Eunice, N. M.
Gulf Oil Corp., Drawer 669, Roswell, N. Mex.
TP Coal & Oil Co., Box 1688, Hobbs, New Mexico
Carper Drilling Co., Inc., 200 Carper Bldg, Artesia, N. Mex.
Continental Oil Company, Box 68, Eunice, N. Mexico

DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION



COMPANY: TEXACO Inc.
LEASE: C. P. Falby (a) Well No. 4
FIELD: Eumont (Oil), Penrose-Skelly and Drinkard
DATE: May 30, 1961