

CASE 3160: Application of TEXACO
INC. for a deal completion, Lea
County, New Mexico.

CASE NO.

3160

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

State of New Mexico
Oil Conservation Commission



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

Re: CASE NO. 3160
ORDER NO. R-2820
APPLICANT Texaco Inc.

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

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. 3160
Order No. B-2820

APPLICATION OF TEXACO INC.
FOR A DUAL 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 November 24, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Hutton.

NOW, on this 2nd day of December, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texaco Inc., seeks authority to complete its New Mexico "R" (MCT-4) Well No. 1, located in Unit C of Section 7, Township 18 South, Range 35 East, LMPM, Lea County, New Mexico, as a dual completion (tubingless) to produce oil from the Vacuum Grayburg-San Andres and Vacuum-Abo Reef Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.

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

(4) That approval of the subject application will prevent waste and protect correlative rights.

-2-

CASE No. 3160
Order No. R-2820

IT IS THEREFORE ORDERED:

(1) That the applicant, Tuxaco Inc., is hereby authorized to complete its New Mexico "R" (NCT-4) Well No. 1, located in Unit C of Section 7, Township 18 South, Range 35 East, NEWM, Lea County, New Mexico, as a dual completion (tubingless) to produce oil from the Vacuum Graybury-San Andres and Vacuum-Abo Reef Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore;

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 zone segregation tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Vacuum-Abo Reef Pool.

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

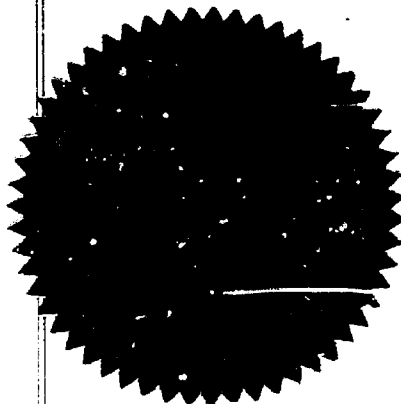
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

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/



FOREST OIL CORPORATION

Forest Oil Building Midland, Texas

November 3, 1964

Lea/South Vacuum, P 4-5243, L-6008-1
Part of Section 7, T-18-S, R-35-E,
Lea County, New Mexico

Texaco Application for Multiple
Completion State of New Mexico "R"
NCT-4 Well #1, Vacuum (Abo-San Andres)
Pool

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Gentlemen:

Forest Oil Corporation has no objection to Texaco's
application to dually complete the above-described well from
the San Andres and the Abo Formations.

Yours very truly,

FOREST OIL CORPORATION

J. R. Creech
J. R. Creech
Division Landman

JRC:hw

cc Texaco, Inc.
Humble Oil and Refining Company
Marathon Oil Company
Sohio Petroleum Company
Tidewater Oil Company

Docket No. 32-64

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 24, 1964

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. Mutter, Alternate Examiner:

- CASE 3147: Application of Newmont Oil Company for a waterflood expansion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its West Square Lake Waterflood Project by the injection of water into the Grayburg and San Andres formation through 10 wells in Sections 32, 33, and 35, Township 16 South, Range 30 East, and Section 4, Township 17 South, Range 30 East, Eddy County, New Mexico.
- CASE 3148: Application of Newmont Oil Company for a waterflood buffer zone, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks establishment of the NW/4 SE/4 of Section 28, the W/2 SW/4 of Section 33, and the SE/4 NW/4 and SE/4 NE/4 of Section 34, all in Township 16 South, Range 31 East, as a buffer zone adjacent to its Square Lake Waterflood Project, Eddy County, New Mexico.
- CASE 3149: Application of Newmont Oil Company for amendment of Order No. R-2178-B, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an amendment of Order No. R-2178-B to include the S/2 SE/4 of Section 11, Township 18 South, Range 29 East, in Stage I of the Loco Hills Sand Unit Waterflood Project, to approve two Stage I water injection wells in said Section 11, and to include the NE/4 NE/4 of Section 15, Township 18 South, Range 29 East, in Stage III of the waterflood project.
- CASE 3150: Application of California Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bogle Flats Unit Area comprising 11,091 acres, more or less, of State and Federal lands in Township 22 South, Range 23 East, Eddy County, New Mexico.
- CASE 3151: Application of Jake L. Hamon for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its State E-8321 Well No. 1 located in Unit L of Section 4, Township 21 South, Range 35 East, Lea County, New Mexico, to produce oil from the Wolfcamp and Strawn formations through parallel strings of tubing.
- CASE 3152: Application of Jake L. Hamon for the creation of a new oil pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Wolfcamp production for its State E-8321 Well No. 1 located in Unit L of Section 4, Township 21 South, Range 35 East, Lea County, New Mexico, and for the promulgation of special rules for said pool, including a provision for 80-acre spacing and fixed well locations.

- CASE 3153: Application of Jake L. Hamon for the creation of a new oil pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Strawn production for its State E-8321 Well No. 1 located in Unit L. of Section 4, Township 21 South, Range 35 East, Lea County, New Mexico, and for the promulgation of special rules for said pool, including a provision for 80-acre spacing and fixed well locations.
- CASE 3154: Application of Atlantic Refining Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Culwin Queen Unit Area comprising 820 acres, more or less, of State and Federal lands in Townships 18 and 19 South, Ranges 30 and 31 East, Eddy County, New Mexico.
- CASE 3155: Application of Atlantic Refining Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Shugart Pool in its Culwin Queen Unit Area by the injection of water into the Queen formation through six injection wells in Section 36, Township 18 South, Range 30 East, Section 31, Township 18 South, Range 31 East, Section 1, Township 19 South, Range 30 East, and Section 6, Township 19 South, Range 31 East, Eddy County, New Mexico.
- CASE 3156: Application of Continental Oil Company for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Cass Pool, Lea County, New Mexico, including a provision for 80-acre spacing and the transfer of allowables.
- CASE 3157: Application of The Pure Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Red Hills Unit Well No. 1 located 330 feet from the South line and 2310 feet from the East line of Section 32, Township 25 South, Range 33 East, Lea County, New Mexico, as a dual completion (conventional) to produce gas from the Wolfcamp and Pennsylvanian formations through parallel strings of tubing.
- CASE 3158: Application of The Pure Oil Company for the creation of a new gas pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp gas pool for its Red Hills Unit Well No. 1 located 330 feet from the South line and 2310 feet from the East line of Section 32, Township 25 South, Range 33 East, Lea County, New Mexico, and the promulgation of special pool rules including a provision for 640 acre spacing.
- CASE 3159: Application of The Pure Oil Company for the creation of a new gas pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Pennsylvanian gas pool for its Red Hills Unit Well No. 1, located 330 feet from the South line and 2310 feet from the East line of Section 32, Township 25 South, Range 33 East, Lea County, New Mexico, and the promulgation of special pool rules including a provision for 640-acre spacing.

- 3 -

November 24th Examiner Hearing

CASE 3160: Application of Texaco Inc. for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (tubingless) of its State of New Mexico "R" (NCT-4) Well No. 1 located in Unit C of Section 7, Township 18 South, Range 35 East, Lea County, New Mexico, to produce oil from the Vacuum-San Andres and Vacuum-Abo Reef Pools through parallel strings of 2-7/8 inch casing cemented in a common well bore.

CASE 3161: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit Southern Union Production Company and all other interested parties to show cause why the Robert Mims-State Well No. 1 located in Unit M of Section 16, Township 29 North, Range 9 West, San Juan County, New Mexico, should not be properly repaired or plugged in accordance with a Commission approved plugging program.

CASE 3162: Application of Continental Oil Company for a waterflood expansion and an administrative procedure, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to convert to water injection its General American Green "B" Wells Nos. 4 and 7, located in Unit H of Section 7 and Unit L of Section 5, respectively, Cave Pool Waterflood Project, Township 17 South, Range 29 East, Eddy County, New Mexico. Applicant further seeks an administrative procedure in exception to Rule 701 whereby additional wells in said project could be converted to water injection prior to receiving response from flooding operations.

TEXACO
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION



P. O. BOX 2088
MIDLAND, TEXAS

October 28, 1964

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Check 3166

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

Gentlemen:

TEXACO Inc. respectfully requests that a hearing be set to consider its application for a dual tubingless completion for the State of New Mexico "R" (NCT-4) Well No. 1. This well is completed in the Vacuum (San Andres) and Vacuum (Abo Reef) Pools, Lea County, New Mexico. In support of our application we wish to state the following facts:

1. TEXACO Inc. is the Operator of the State of New Mexico "R" (NCT-4) Lease containing 77.72 acres and consisting of the N/2 of NW/4 of Section 7, Township 18 South, Range 35 East, Lea County, New Mexico.

2. The State of New Mexico "R" (NCT-4) Well No. 1 is located in Unit C of said Section 7.

3. The Vacuum (San Andres) Zone is an oil completion through casing perforations from 4648 feet to 4697 feet.

4. The Abo Reef Zone is an oil completion through casing perforations from 8573 feet to 8760 feet.

5. The San Andres Zone will require pumping and it will be produced through 2-7/8 inch casing cemented in a common well bore with 2-7/8 inch casing that serves the Abo Reef Zone. The Abo Reef Zone is flowing through 2-7/8 inch casing.

Attached is an Application for Multiple Completion and a plat of the State "R" (NCT-4) Lease. It is respectfully requested that this application be set for hearing on the first available hearing docket.

Yours very truly,

C. L. Whigham

C. L. Whigham
Division Proration Engineer

JMM/om
Attachments

DOCKET MAILED

Date 11-13-64

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR MULTIPLE COMPLETION

5-1-61

Operator TEXACO Inc.		County Lea		Date October 27, 1964	
Address P. O. Box 728, Hobbs, New Mexico		Lease St. N.M. "R" (NCT-4)		Well No. 1	
Location of Well	Unit C	Section 7	Township 18S	Range 35E	

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	Vacuum San Andres		Vacuum Abo Reef
b. Top and Bottom of Pay Section (Perforations)	4648' - 4697'		8573' - 8760'
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Pump		Flow

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

Will Present have been furnished copies of the application.*

at hearing. 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.

Humble Oil and Refining Company, P. O. Box 2617, Hobbs, New Mexico

Forest Oil Corporation, P. O. Box 4486, Midland, Texas

Marathon Oil Company, P. O. Box 2107, Hobbs, New Mexico

Sohio Petroleum Company, P. O. Box 3167, Midland, Texas

Tidewater Oil Company, P. O. Box 547, Hobbs, 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 _____.

CERTIFICATE: I, the undersigned, state that I am the Divn. Pror. Engineer of the 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.

C.L. Whigham

Signature

* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

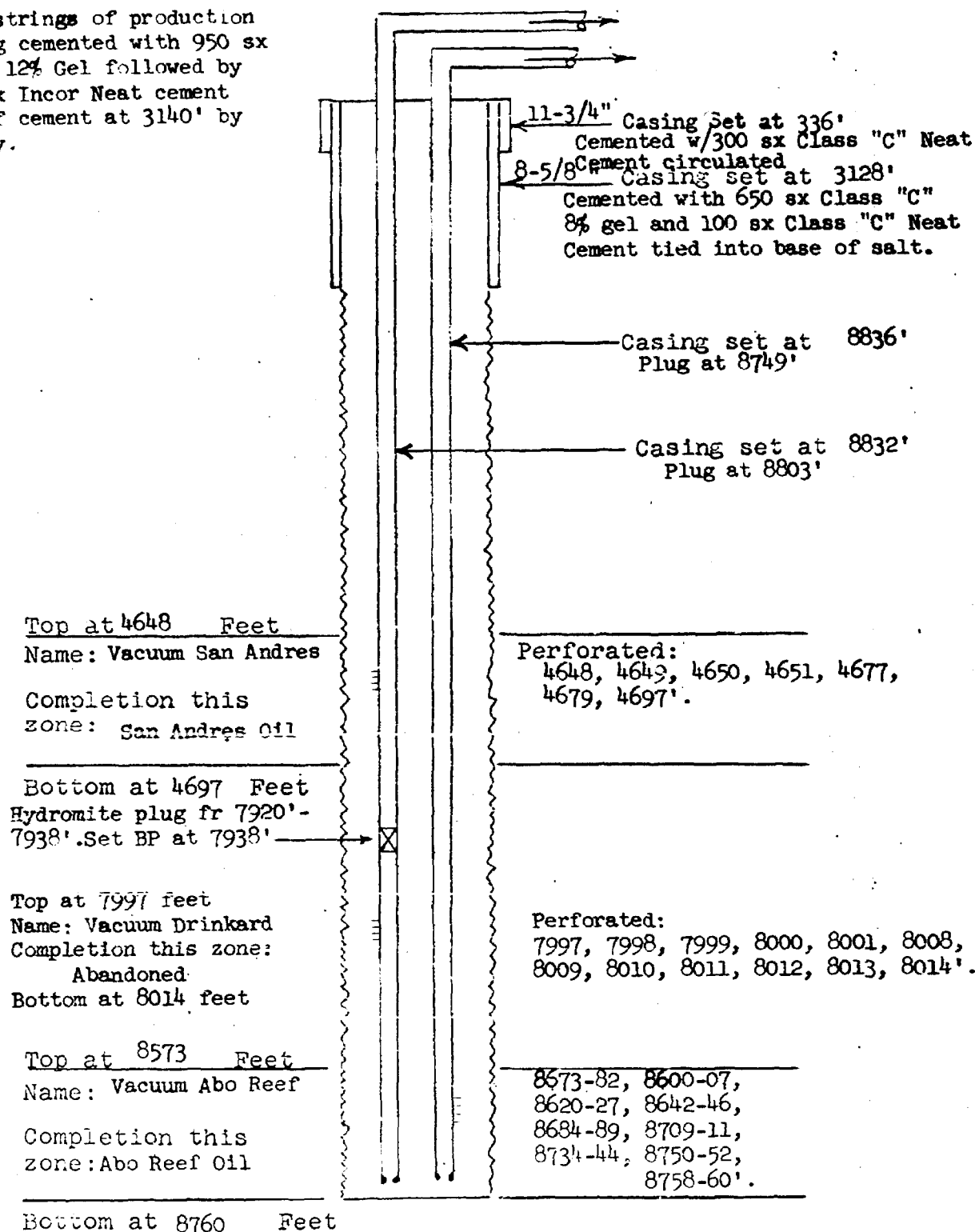
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

	<u>Abo Reef</u>	<u>San Andres</u>
Date of Potential Test:	1-17-62	10-19-64
Test Period, Hrs:	8	10
Production: Oil, Bbls.	141	72
Water, Bbls.	0	7
Gas, MCF	148	79.5
Oil Gravity °API @60° F	39.8	39°
Gas-Oil Ratio SCF/Bbl	1050	1107
Flowing Tbg Pressure, PSIG	200	Swab
Reservoir Pressure, PSIA	3137	850 (Est.)
Productivity Index BOPD/PSIG	0.494	NA
Bottom Hole Temperature, °F	140°	102°
Corrosion anticipated	None	None
Latest Production Test: Oil, Bbls.	150	
Water, Bbls.	0	
Gas, MCF	80.7	
Date	9-23-64	
GOR	538	
Test Period Hrs.	24	

STATE OF NEW MEXICO "R" (NCT-4) Well No. 1

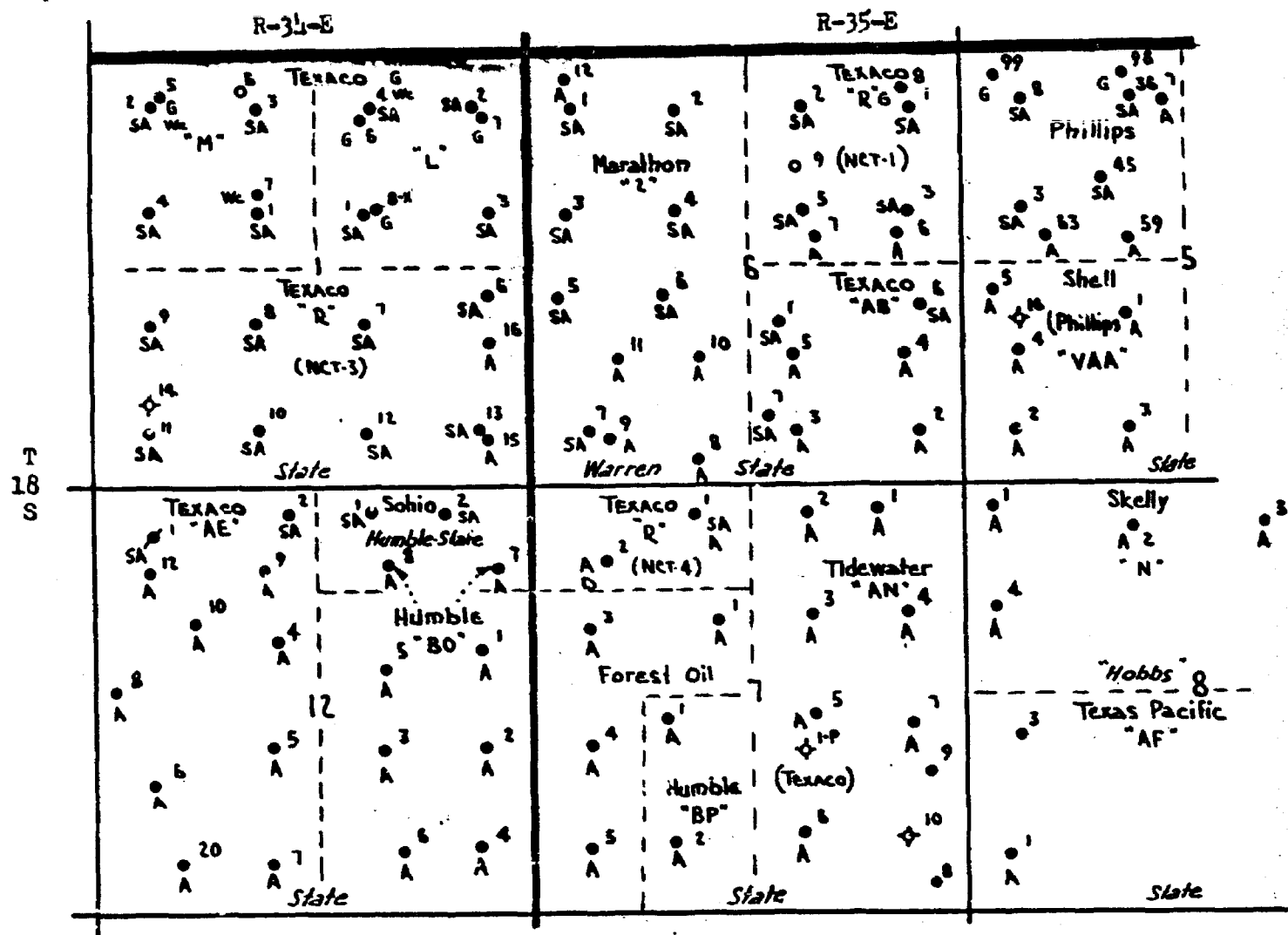
DETAILED Schematic SHOWING DUAL COMPLETION INSTALLATION (TUBINGLESS)

NOTE: Both strings of production casing cemented with 950 sx Incor 12% Gel followed by 230 sx Incor Neat cement. Top of cement at 3140' by survey.



TEXACO Inc.

LEASE: STATE OF NEW MEXICO "R" (NCT-4) WELL NO. 1
FIELD: Vacuum (Abo Reef & San Andres)
DATE: October 27, 1964



LEGEND

A-Vacuum Abo Reef Pool

SA-Vacuum Grayburg-San Andres Pool

D-Vacuum Drinkard Pool

G-Vacuum Glorieta Pool

WC-Vacuum Wolfcamp Pool

TEXACO Inc.
State of New Mexico "R"
(NCT-4) Well No. 1

OFFSET OPERATORS

Humble Oil & Refining Co.
P. O. Box 2617
Hobbs, New Mexico

Forest Oil Corporation
P.O. Box 4486
Midland, Texas

Marathon Oil Company
P.O. Box 2107
Hobbs, New Mexico

Tidewater Oil Company
P. O. Box 547
Hobbs, New Mexico

Sohio Petroleum Co.
P.O. Box 3167
Midland, Texas

**TEXACO
INC.**

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION



P. O. BOX 220
MIDLAND, TEXAS

October 29, 1964

**APPLICATION FOR MULTIPLE COMPLETION
TEXACO STATE OF NEW MEXICO "R" NCT-4
WELL NUMBER 1
VACUUM (ABO REEF) POOL
VACUUM (GRAYBURG-SAN ANDRES) POOL**

Humbel Oil and Refining Company
P. O. Box 2617
Hobbs, New Mexico

Sohio Petroleum Company
P. O. Box 3167
Midland, Texas

Forest Oil Corporation
P. O. Box 4486
Midland, Texas

Tidewater Oil Company
P. O. Box 547
Hobbs, New Mexico

Marathon Oil Company
P. O. Box 2107
Hobbs, New Mexico

Gentlemen:

Texaco Inc. has made application to the New Mexico Oil Conservation Commission for a hearing to consider its request to dually complete the above subject well in the Abo and San Andres reservoirs. Regulations require that waivers consenting to such multiple completion or evidence that said offset operators have been furnished copies of the application be submitted to the Conservation Commission. In compliance with this rule we are forwarding a copy of the "Application for Multiple Completion" to each of the offset operators.

Yours very truly,

C. L. Whigham
Division Proration Engineer

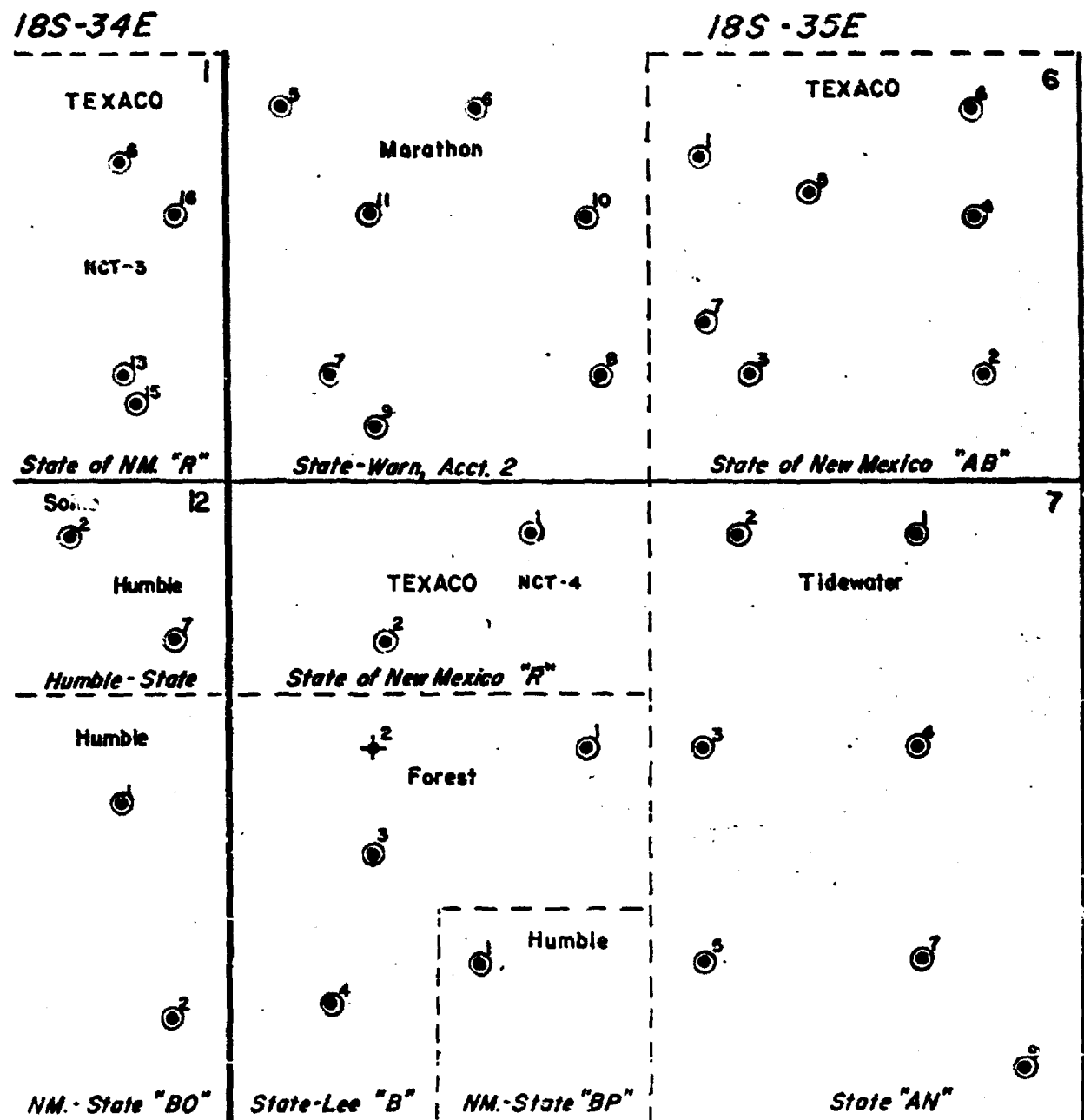
CLW:jl

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

App/ EXHIBIT NO. 1

CASE NO. 3160



TEXACO, INC
Midland, Texas

PORTION OF LEA COUNTY NEW MEXICO

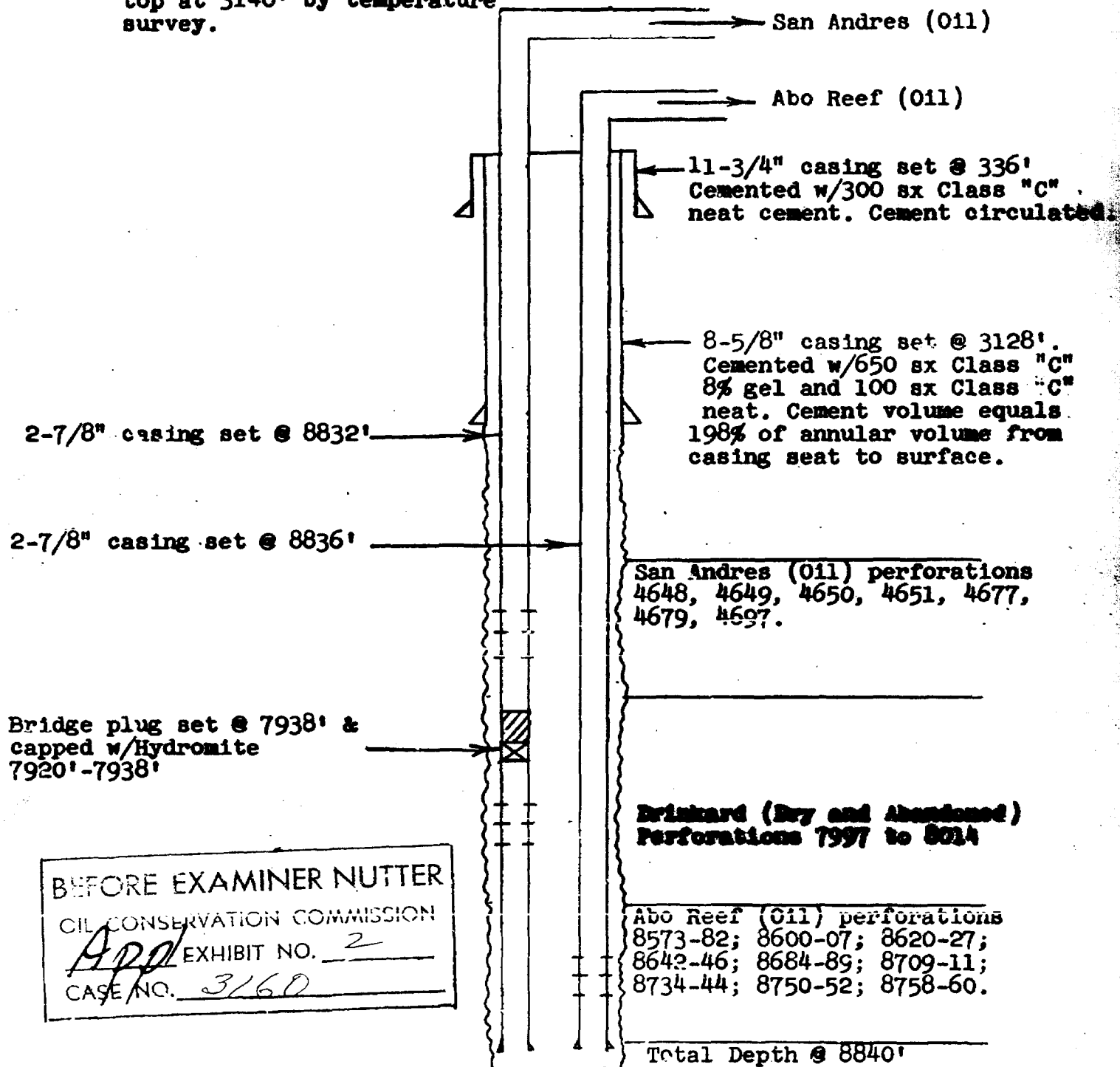
Application For Dual Completion Date _____
New Mexico OCC Hearing Docket No. _____
Case No. _____ Exhibit _____

Drawn By: JWD Date: 11-17-64 Scale: 1" = 1000'

LEGEND

- Vacuum Abu Reef Pool
- Vacuum Grayburg-San Andres Pool
- Vacuum Drinkard Pool

NOTE: 2-7/8" casing cemented w/950
sx Class "C", 12% gel, and
230 sx Class "C" neat. Cement
top at 3140' by temperature
survey.



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
App EXHIBIT NO. 2
CASE NO. 3160

DIAGRAMMATIC SKETCH
Dual Tubingless Completion

TEXACO Inc.
State of New Mexico "R" (NCT-4) Well No. 1
Vacuum (San Andres & Abo Reef) Pools
Lea County, New Mexico

RESERVOIR AND COMPLETION DATA
TEXACO STATE OF NEW MEXICO "R" NCT-4 WELL NO. 1

	<u>Abo Reef</u>	<u>San Andres</u>
Date of Potential Test:	1-17-62	10-19-64
Test Period, Hrs:	8	10
Production: Oil, Bbls.	141 ✓	72 ✓
Water, Bbls.	0 ✓	7
Gas, MCF	148 ✓	79.5 ✓
Oil Gravity °API @ 60° F	39.8	39°
Gas-Oil Ratio SCF/BBL	1050 ✓	1107 ✓
Flowing Tbg Pressure, PSIG	200 ✓	Swab
Reservoir Pressure, PSIA	3137 ✓	850 (Est.)
Productivity Index BOPD/PSIG	0.494	NA
Bottom Hole Temperature, °F	140°	102°
Corrosion Anticipated	None	None
Latest Production Test: Oil, Bbls.	150	
Water, Bbls.	0	
Gas, MCF	80.7	
Date	9-23-64	
GOR	538	
Test Period Hrs.	24	

STATE OF NEW MEXICO "R" (NCT-4) WELL NO. 1

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
<u>App</u> EXHIBIT NO. <u>3</u>
CASE NO. <u>3160</u>

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. _____
CASE NO. _____

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SHAW BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 24, 1964

EXAMINER HEARING

IN THE MATTER OF:

APPLICATION OF TEXACO INC. FOR A DUAL COM-
PLETION, LEA COUNTY, NEW MEXICO

Case No. 3160

BEFORE:

DANIEL NUTTER

TRANSCRIPT OF HEARING

MR. NUTTER: We call Case Number 3160.

MEMBER: Application of Texaco, Inc., for a dual completion, Lea County, New Mexico.

MR. WHITE: If the examiner please, Charles White of Gilbert, White and Gilbert, Santa Fe, New Mexico, appearing on behalf of Texaco, Inc. We have one witness at this time.

C. L. WHIGHAM thereupon was sworn, took the stand and testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q State your full name, by whom you are employed and in what capacity.

A My name is C. L. Whigham. I am employed by Texaco, Incorporated as division petroleum engineer for Midland Division, located in Midland, Texas.

Q Have you previously testified as a petroleum engineer before the Commission, and have your qualifications been accepted?

A Yes, sir.

Q What does Texaco seek by this application?

A Texaco as the applicant in this case seeks approval of dual completion in its State of New Mexico RNCT-4 Well Number 1 to produce oil from the Vacuum-San Andres and Vacuum-Abo Reef pools through parallel strings of 2-7/8 inch casing cemented in a common well bore.

Q Will you refer to the ownership plat, Exhibit 1, and briefly explain that.

A Exhibit 1 is an ownership plat covering the area in question. It covers a portion of Lea County, New Mexico, being the southern limit of the Vacuum Grayburg oil pool where in recent months oil production has been discovered in the Vacuum Abo Reed pool. The subject lease in the center of the plat is Texaco versus State of New Mexico. This plat shows the surrounding operators--five offset operators, each having been furnished a copy of the application. The color code denotes the completion interval in each well on this plat. Red denotes the Vacuum Abo Reef pool; green the Vacuum Grayburg; and one well has been completed in the Vacuum Drinkard pool, and that is indicated by the blue color.

Q What is the status of the well at the present time?

A At the present time proposed necessary production or completion for producing in the Vacuum Grayburg-San Andres is shut in pending approval of this application.

Q Referring to your sketch, Exhibit 2, explain the casing program and diagram.

A Exhibit 2 is a diagram sketch. The well was drilled to a depth of 336 feet and a 11-3/4 inch surface casing was cemented at that depth with 300 sacks of cement, circulating cement to the surface. 3128 feet of 8-5/8 intermediate casing

was set with 750 sacks of cement. Then drilling continued to a total depth of 8,840 feet. At that point two strings of 2-7/8 inch casing were run to a total depth, one string to 8,832 feet and the other to 8,836 feet, and both strings of 2-7/8 were cemented simultaneously in the well, both with 950 sacks of sheer cement followed by 230 sacks of neat cement. Then after cementation the well was originally completed in the Abo Reef in one string of casing from 8,573 to 8,760, completed January 17, 1962. The other string was completed in the Vacuum Drinkard pool from 7,997 to 8,014 feet. That completion was made March 7, 1962. Production from the deeper zone declined in rapidity and this zone was abandoned on October 8, 1964 and shortly thereafter a bridge plug was set in that string, excluding the Drinkard completion, and at that time that string of casing was completed in the San Andres zone from 4678 to 4697. That completion was made October 19, 1964.

Q Now, referring to Exhibit 3, please explain the reservoir and completion data.

A Exhibit 3 is a very brief summary of the Abo Reef data which shows the Abo Reef completion as being made on January 17, 1962, and on potential test flowed 141 barrels of oil, no water, and 148 MCF of gas in eight hours. A gas ratio of 1050 and flowing tubing pressure was 200 PSI; bottom hole pressure was 3137 PSI. The San Andres completion was made October 19, 1964, and at that time the San Andres tested 72

barrels of oil and seven barrels of water on a ten-hour scope test. Gas ratio for that test, 1107 cubic feet. Bottom hole pressure for this zone was estimated at 850 PSI.

Q Would you care to explain Exhibit 4, your well log?

A Exhibit 4 is a radioactivity log run by the well serving corporation for Texaco upon initial completion of this well, just prior to installation of the two production casing strings. It is a standard radioactivity log measuring gamma ray radiation on the left side of the log and neutron recorded on the right-hand side of the log.

Q Were Exhibits 1 through 3 prepared by you or under your direct supervision?

A Yes, sir.

Q And is Exhibit 4 true and correct, to the best of your knowledge?

A Yes, sir.

MR. WHITE: At this time I offer Exhibits 1 through 4 into evidence, and that concludes our direct examination.

MR. NUTTER: Exhibits 1 through 4 are admitted into evidence. Does anyone have any questions of the witness? ... He may be excused. Do you have anything further, Mr. White?

MR. WHITE: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 3160? We will take the case under advisement.

dearnley-meier reporting service, inc.

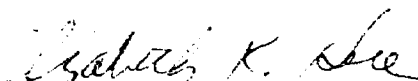
SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, BAILY COPY, CONVENTIONS

1120 SIAMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

I, ELIZABETH K. HALE, Notary Public and Court Reporter, do hereby certify that the foregoing and attached transcript of hearing in Case Number 3160 was reported by me and 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 of office this 5th day of December, 1964.


Notary Public

My commission expires
May 23, 1968.



I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3160, heard by me on 11/24, 1964.


Examiner
New Mexico Oil Conservation Commission