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

November 28, 1963

COPY

Continental Oil Company
Box 1377
Roswell, New Mexico

Gentlemen:

Enclosed herewith please find Administrative Order No. WFX-158 authorizing conversion of five wells to water injection wells in your SEMU Skaggs Water Flood Project in the Skaggs Pool in Lea County, New Mexico.

Very truly yours,

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

ALP/JEK/og

cc: Oil Conservation Commission - Hobbs
New Mexico Engineer Office - Santa Fe

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

APPLICATION OF CONTINENTAL OIL COMPANY TO EXPAND ITS SEMU SKAGGS WATER FLOOD PROJECT IN THE SKAGGS POOL IN LEA COUNTY, NEW MEXICO.

ADMINISTRATIVE ORDER
WFX NO. 158

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 701, Continental Oil Company has made application to the Commission on November 13, 1963, for permission to expand its Southeast Monument Unit Skaggs Water Flood Project in the Skaggs Pool, Lea County, New Mexico.

NOW, on this 28th day of November, 1963, the Secretary-Director finds:

1. That application has been filed in due form.

2. That satisfactory information has been provided that all offset operators have been duly notified of the application.

3. That no objection has been received within the waiting period as prescribed by Rule 701.

4. That the proposed injection wells are eligible for conversion to water injection under the terms of Rule 701.

5. That the proposed expansion of the above-referenced water flood project will not cause waste nor impair correlative rights.

6. That the application should be approved.

IT IS THEREFORE ORDERED:

That the applicant, Continental Oil Company, be and the same is hereby authorized to inject water into the Grayburg formation through the following described wells for purposes of secondary recovery, to wit:

SEMU Permian Well No. 25 located in the NE/4 NE/4 of Section 25, Township 20 South, Range 37 East, NMPM; SEMU Permian Well No. 30 located in the SW/4 NW/4 of Section 30; SEMU Permian Well No. 31 located in the NE/4 NW/4 of Section 19; SEMU Permian Well No. 32 located in the SW/4 NE/4 of Section 19; and SEMU Permian Well No. 40 located in the NE/4 SE/4 of Section 19, all in Township 20 South, Range 38 East, NMPM.

PROVIDED HOWEVER, That applicant shall inject water through tubing with packers set at approximately 3600 feet in the oil strings of said wells.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

A. L. Porter, Jr.

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

SEAL

LTR

Job separation sheet

Nov 58

CONTINENTAL OIL COMPANY

P. O. BOX 1377
ROSWELL, NEW MEXICO

PRODUCTION DEPARTMENT
NEW MEXICO DIVISION
A. B. SLAYBAUGH
DIVISION SUPERINTENDENT
V. C. EISSLER
ASSISTANT DIVISION SUPERINTENDENT

825 PETROLEUM BUILDING
TELEPHONE: MAIN 2-4202

November 12, 1963

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

Attention: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: APPLICATION TO EXPAND SKAGGS POOL WATERFLOOD

We forward herewith in triplicate our application for permission to expand the Skaggs Pool Waterflood by converting SEMU Permian Wells Nos. 25, 26, 31, 32 and 40 for water injection purposes. These wells are offset by wells nos. 22, 27 and/or 34 which have experienced a response to water injection. The offset operator and the State Engineers Office are being furnished a copy of this application, this date, by certified mail.

Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,

AB Slaybaugh

VTL-pr
Enc.
cc: RGP GW JWK JRP

Copies by Certified Mail:
Amerada Petroleum Corp., Box 2040, Tulsa, Oklahoma
State Engineer, Box 1079, Santa Fe, New Mexico

CONTINENTAL OIL COMPANY

Roswell, New Mexico

November 12, 1965

OFFICE OCC

NOV 13 AM 8:19

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

Attention: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: The Application of Continental Oil Company for Permission to Expand the Waterflood Project on its Southeast Monument Unit in the Skaggs Pool authorized by Order No. R-1710.

Continental Oil Company, operator of the Southeast Monument Unit, hereby requests authority under Rule 701 to expand the Skaggs Pool Waterflood in the Grayburg formation, Lea County, New Mexico, authorized by Order No. R-1710, for the purpose of recovering additional oil through waterflooding operations. Applicant requests that permission be granted to convert for the purpose of water injection the following described wells:

SEMU Permian No. 25, Unit A Sec. 25, T20S, R37E
SEMU Permian No. 26, Unit E Sec. 30, T20S, R38E
SEMU Permian No. 31, Unit C Sec. 19, T20S, R38E
SEMU Permian No. 32, Unit G Sec. 19, T20S, R38E
SEMU Permian No. 40, Unit I Sec. 19, T20S, R38E

Pursuant to the provisions of said Rule 701 the following Exhibits, in support of this application, are attached:

1. A plat showing the location of the proposed injection wells and the location of all other wells within two miles of said proposed injection wells, the ownership thereof, and the formation from which said wells are producing. (Exhibit 1)

2. Logs of the newly proposed injection wells. (Exhibits 2a through 2e)

3. Commission Forms C-116, showing by production tests taken before and after stimulation by injected water, that producing wells directly offsetting the proposed injection wells have experienced a substantial response to water injection. (Exhibit 3)

4. Diagrammatic sketches of the proposed additional injection wells showing the proposed manner of completion and equipping of each. (Exhibits 4a through 4e)

Copy of this application has been furnished to all operators offset by injection wells and to the State Engineer's Office, Box 1079, Santa Fe, New Mexico.

Applicant therefore respectfully requests administrative approval to expand the Skaggs Pool Waterflood project area to include the aforementioned proposed injection wells.

Respectfully submitted,

A. B. Slaybaugh

A. B. SLAYBAUGH
Division Superintendent
of Production
New Mexico Division

cc: State Engineer
P. O. Box 1079
Santa Fe, New Mexico

Amerada Petroleum Corporation
P. O. Box 2040
Tulsa, Oklahoma

RGP TM JB JRP

CONTINENTAL OIL COMPANY

SEMU Permian No. 25
660' FN & EL, Sec. 25-20-37
Elev: 3538' RT

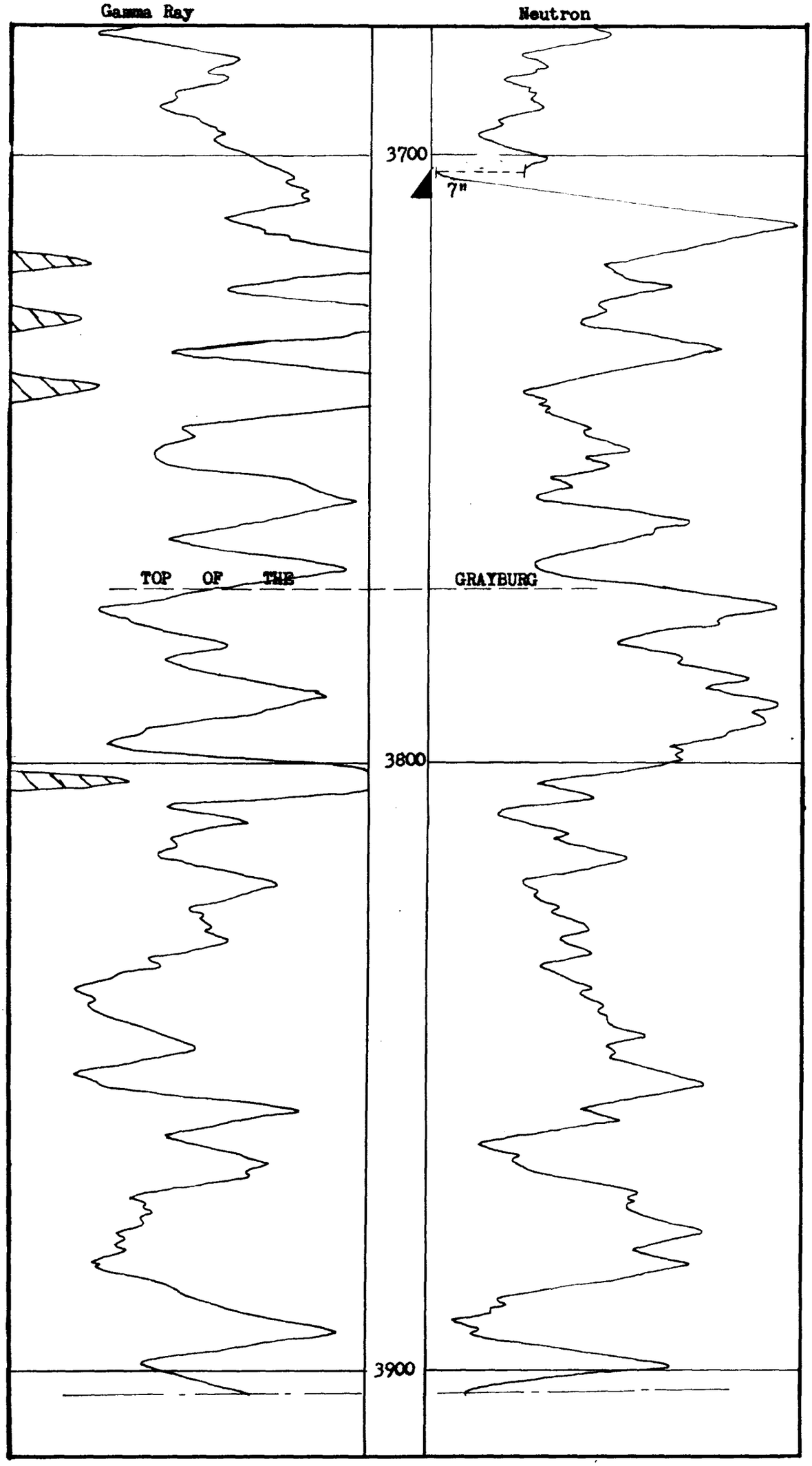


EXHIBIT 2a

CONTINENTAL OIL COMPANY

SEMU Permian No. 26
1980' FN & 660' FWL, Sec. 30-20S-38E
Elev: 3530' RT

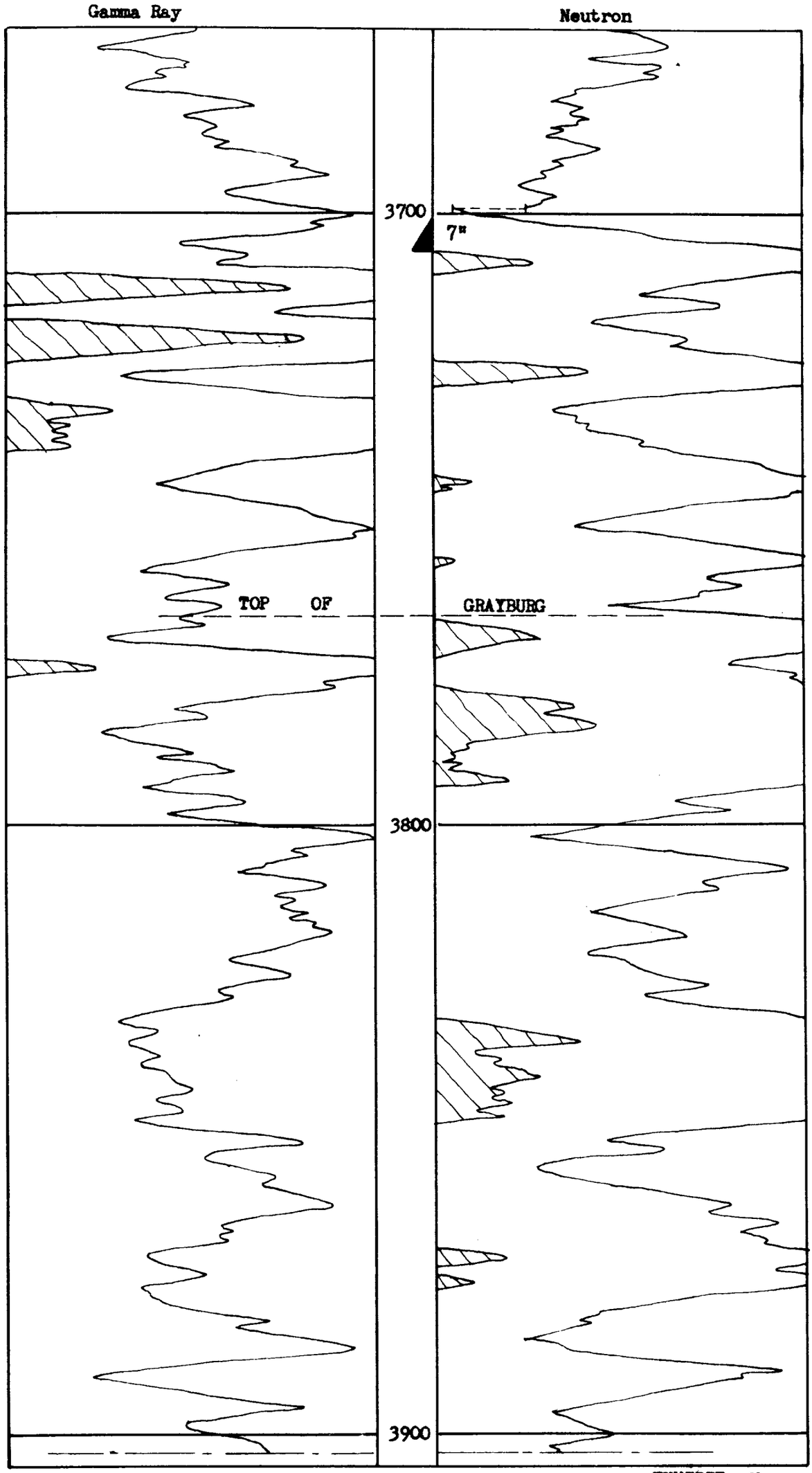


EXHIBIT 2b

CONTINENTAL OIL COMPANY

SEMU Permian No. 31
660' FN & 1980' FWL, Sec. 19-20-37
Elev: 3554' RT

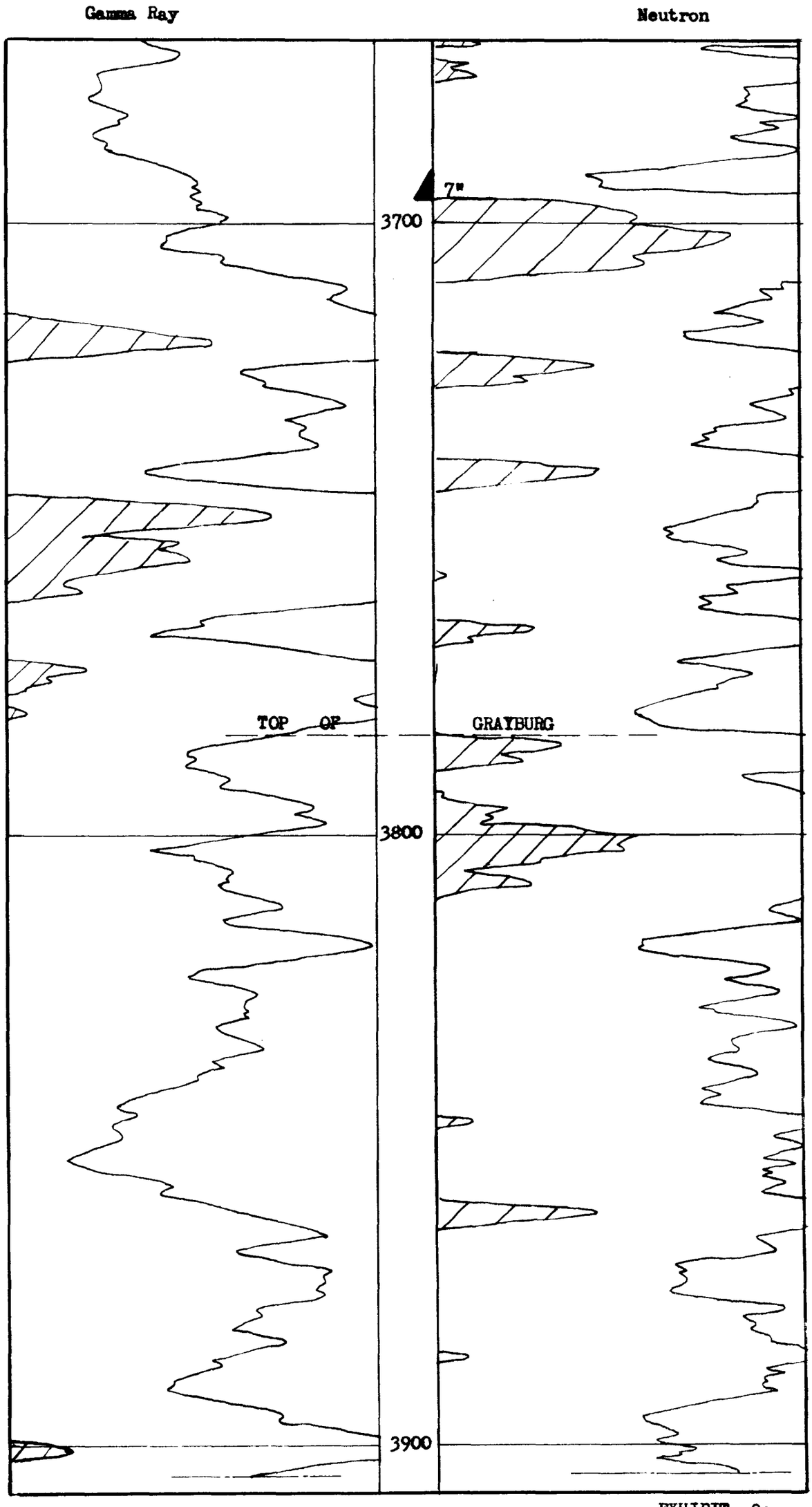


EXHIBIT 2

CONTINENTAL OIL COMPANY

SEMU Permian No. 32
1980' FN & EL, Sec. 19-20S-37E
Elev: 3552' RT

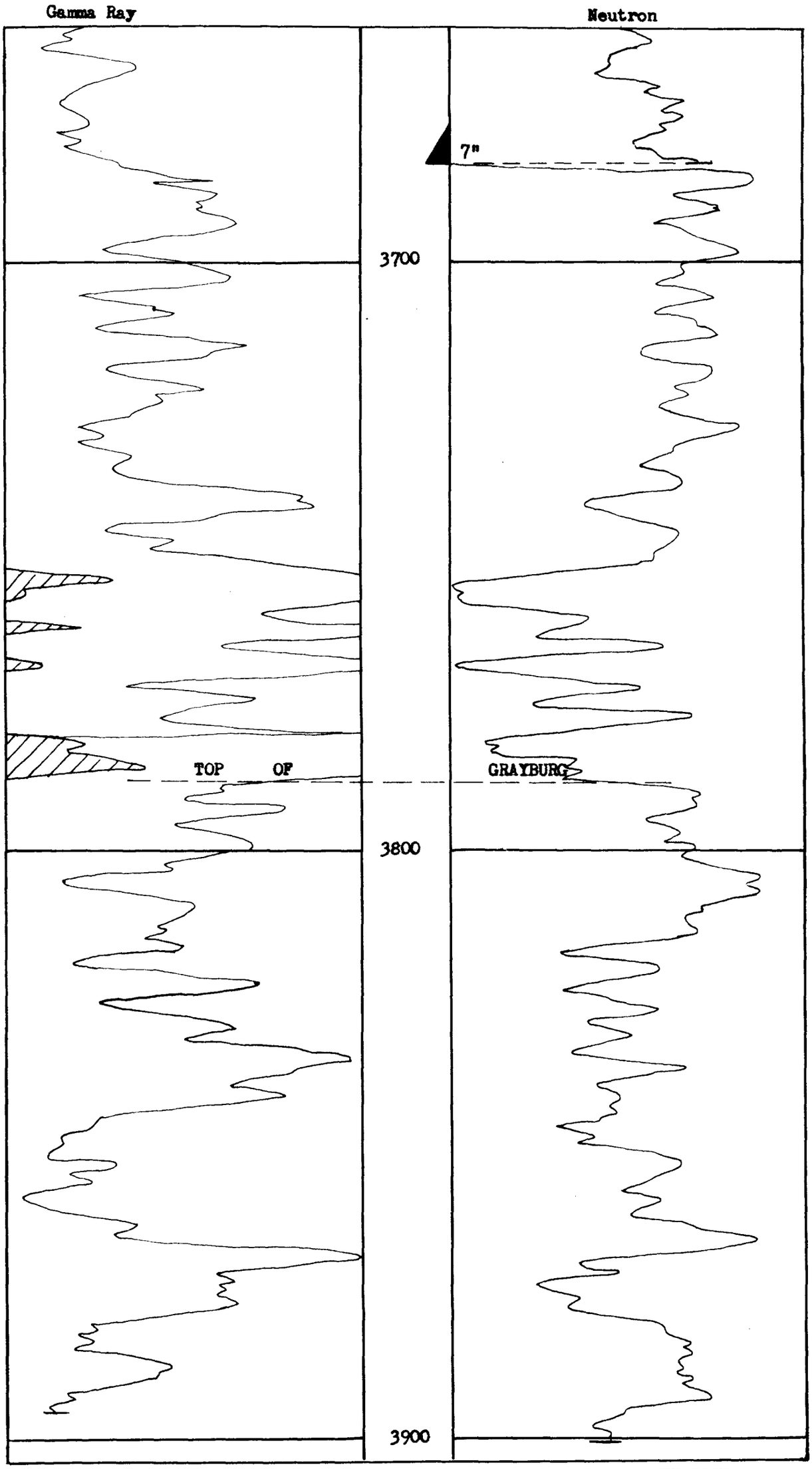
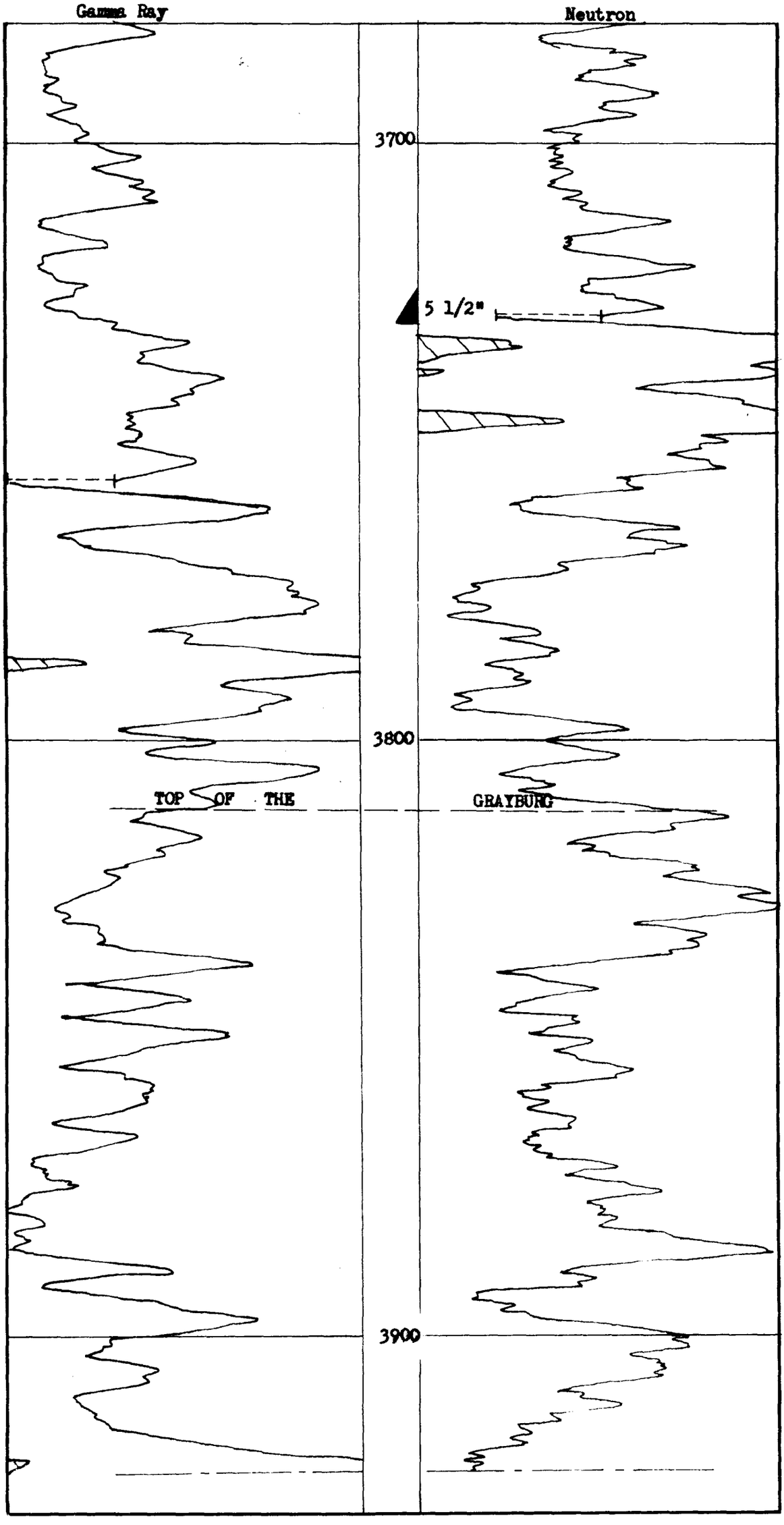


EXHIBIT 2d

CONTINENTAL OIL COMPANY

SEMU Permian No. 40
1980' FS & 660' FWL, Sec. 19-20-38
Elev: 3547' DF



Form C- 116
Revised (12/1/55

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR CONTINENTAL OIL POOL SKAGGS

ADDRESS BOX 68 - EUNICE, NEW MEXICO MONTH OF OCTOBER, 19 63

SCHEDULED TEST ..... COMPLETION TEST ..... SPECIAL TEST X (Check One)

(See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
SEMU Permian	22	9/15	P	Open	24	6*	3	16	27.9	1744
	27	9/29	F	Open	24	12*	6	28	155.8	5564
	34	9/21	P	Open	24	6*	5	16	46.2	2890

ILLEGIBLE

*Project Allowable - 1008.

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date 10-14-63

Continental Oil Company
Company

By SIGNED: J. R. PARKER

District Superintendent
Title

NMOCC O/1 REP ABS FILE

EXHIBIT 3

Form C- 116
Revised (12/1/55)

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

ILLEGIBLE

OPERATOR Continental Oil Company POOL Skaggs

ADDRESS Box 68 - Eunice, New Mexico MONTH OF March, 19 63

SCHEDULED TEST X COMPLETION TEST ..... SPECIAL TEST ..... (Check One)

(See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
SEMU Permian	15	1-19	Pump	Open	24	11*	1	15*	70.0	4,667
	16	2-17	Pump	Open	24	4*	0	5*	36.5	7,300
	17	2- 3	Pump	Open	24	27*	0	35*	87.0	2,486
	19	1- 6	Pump	Open	24	6	0	6	41.1	6,850
	22	1- 1	Pump	Open	24	7	0	6	33.0	5,500
	24	2-18	Pump	Open	24	18*	8	19*	90.8	4,779
	25	1- 7	Pump	Open	24	10	1	9	116.9	12,988
	26	2- 8	Pump	Open	24	6	1	6	43.7	7,283
	27	1-30	Flow	Open	24	14	0	12	23.9	1,991
	29	1-17	Pump	Open	24	11*	1	12*	59.3	4,942
	31	1-29	SCF	Open	24	16	0	14	19.6	1,400
	32	2- 9	Pump	Open	24	9	1	8	146.8	18,350
	33	2- 7	Pump	Open	24	17	1	11	70.2	6,382
	34	1- 8	Pump	Open	24	12	1	6	47.0	7,833
	35	2- 5	Pump	Open	24	12	1	8	55.9	6,988
	36	2-26	Pump	Open	24	4	0	3	113.4	37,800
	37	1-10	Pump	Open	24	4*	0	5*	26.8	5,360
	40	1- 7	Pump	Open	24	7*	1	8*	62.1	7,763

(Continued)

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date 3-4-63 Continental Oil Company
Company

By .....
District Superintendent

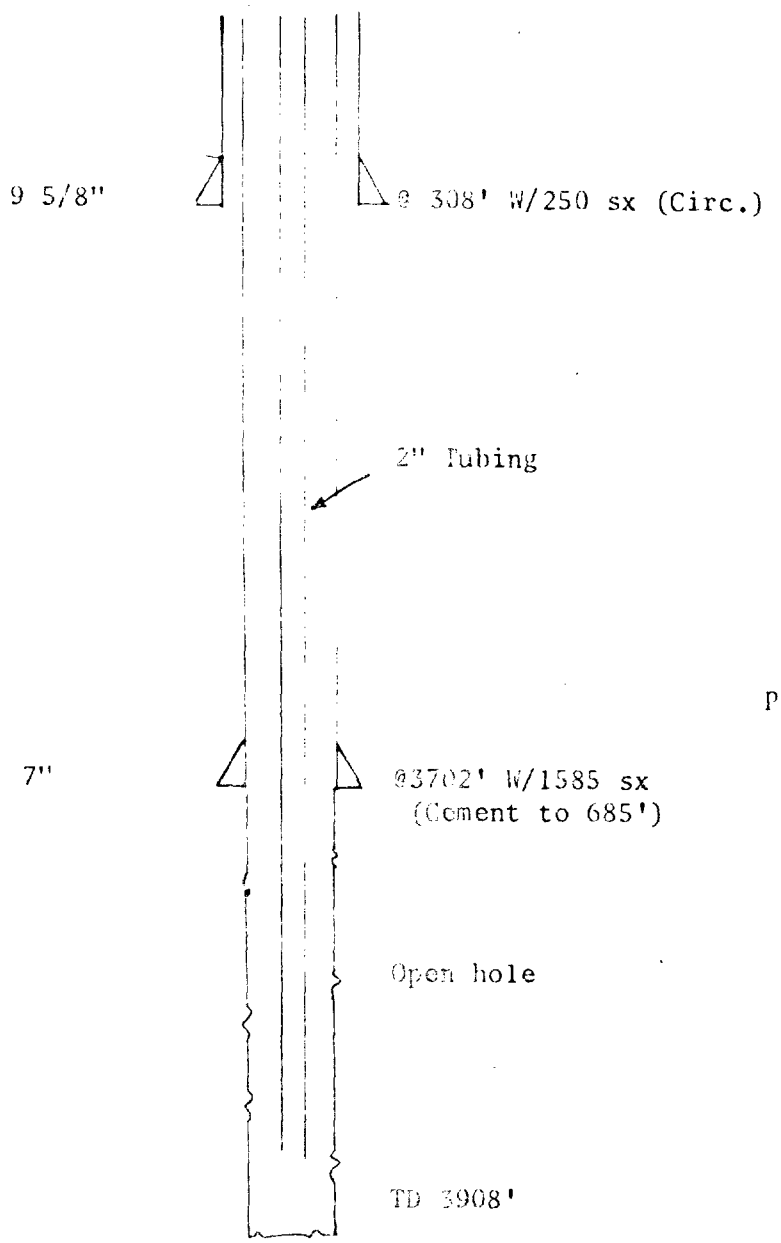
NMOCC O/1 RGP WAM FILE
The following daily allowables are requested: Well #15 - 15 bbls; Well #16 - 5 bbls; Well #17 - 35 bbls; Well #24 - 19 bbls; Well #29 - 12 bbls
Well #37 - 5 bbls; Well #40 - 8 bbls.

EXHIBIT 3a

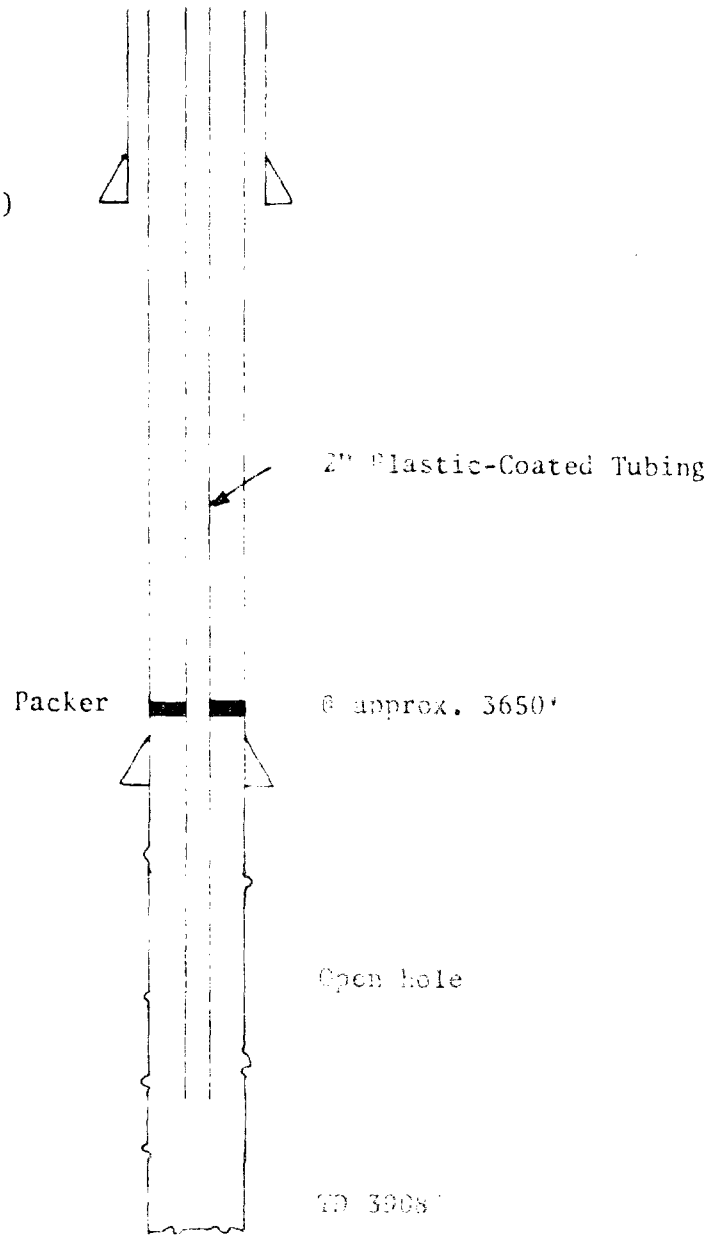
CONTINENTAL OIL COMPANY

SEMU- Permian No. 25

PRESENT CONDITION



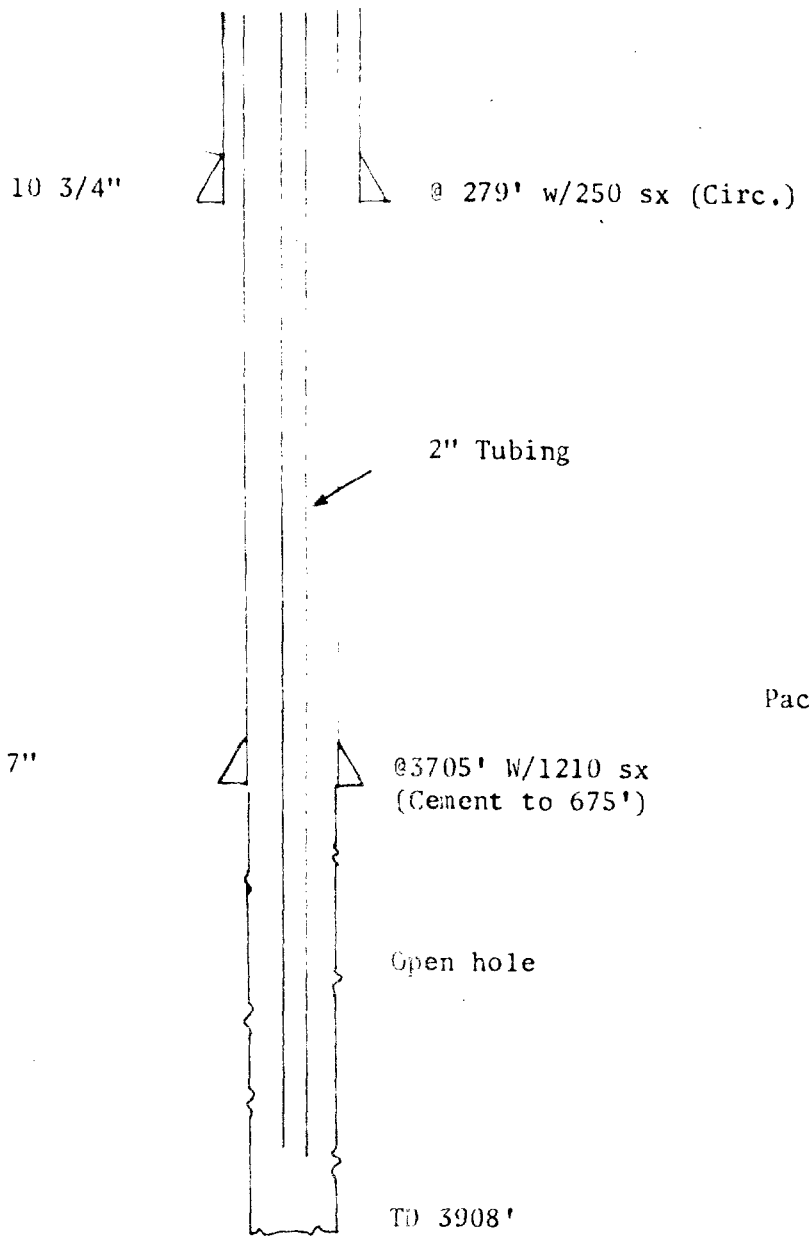
PROPOSED RECOMPLETION



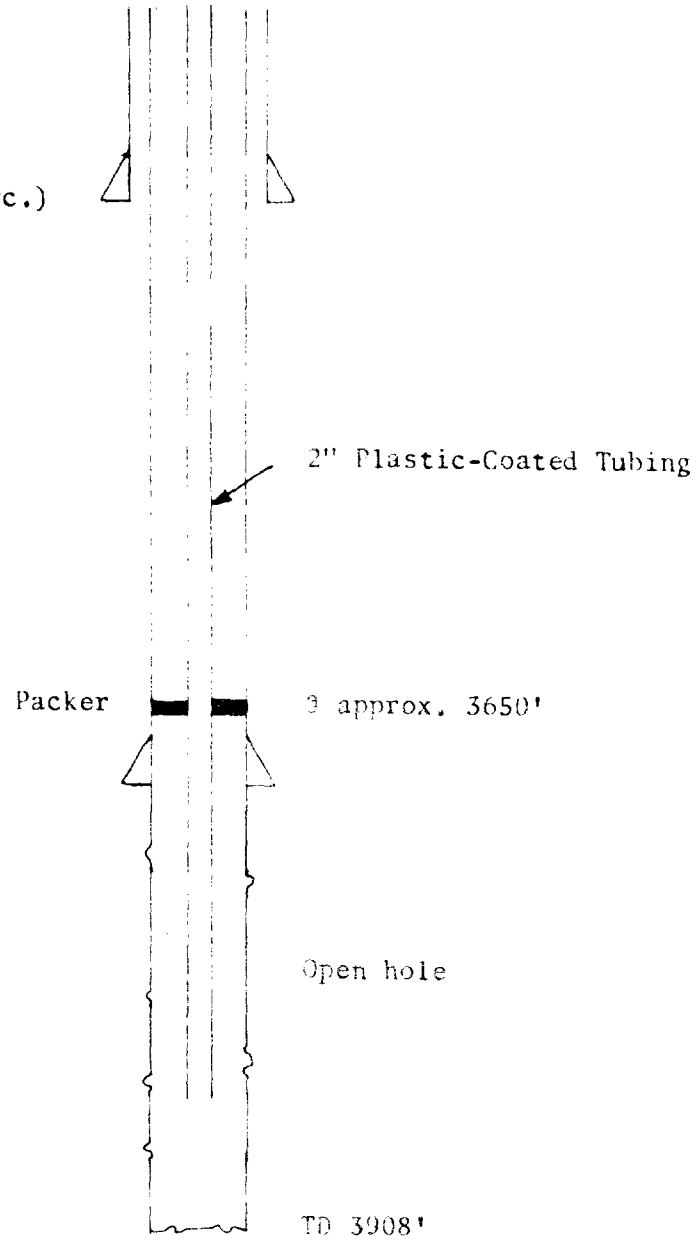
CONTINENTAL OIL COMPANY

SEMU- Permian No. 26

PRESENT CONDITION



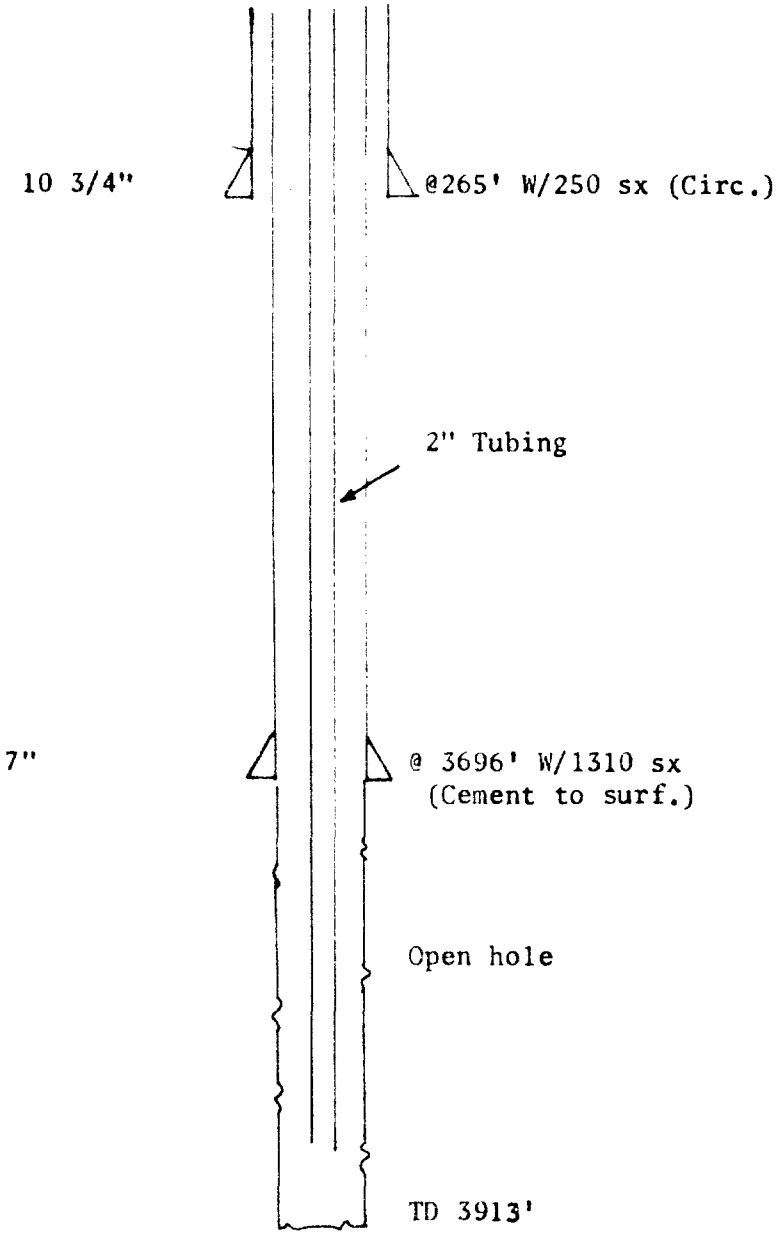
PROPOSED RECOMPLETION



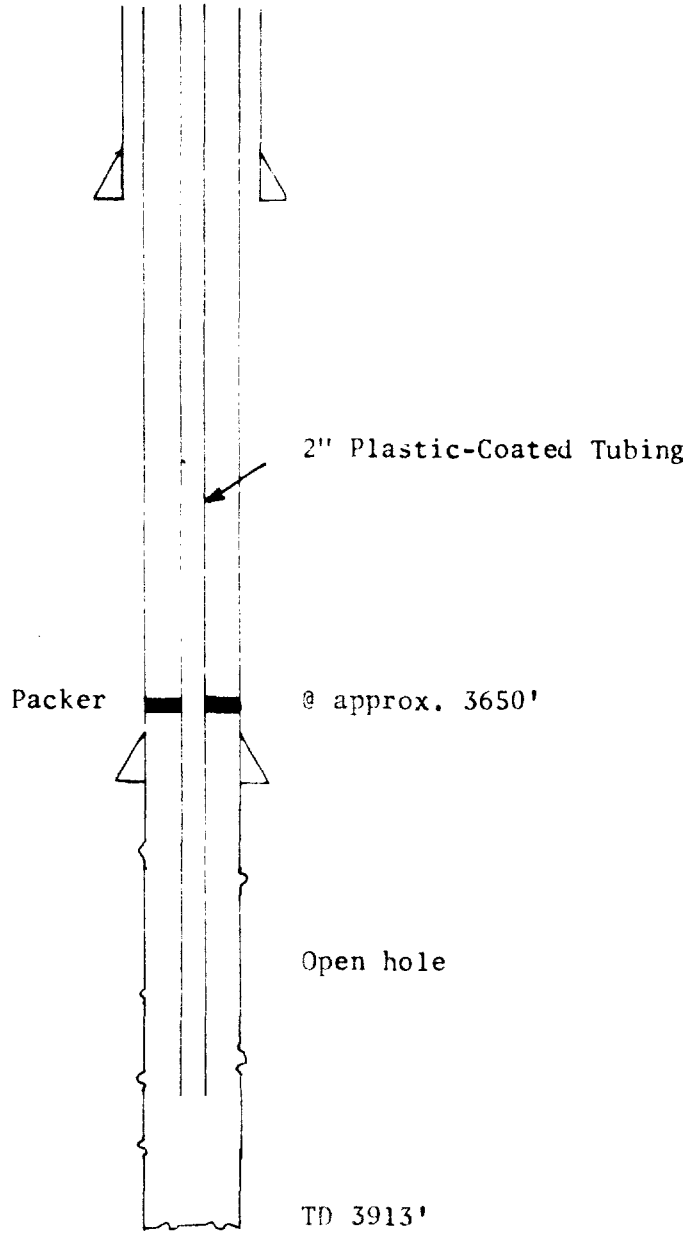
CONTINENTAL OIL COMPANY

SEMU- Permian No. 31

PRESENT CONDITION



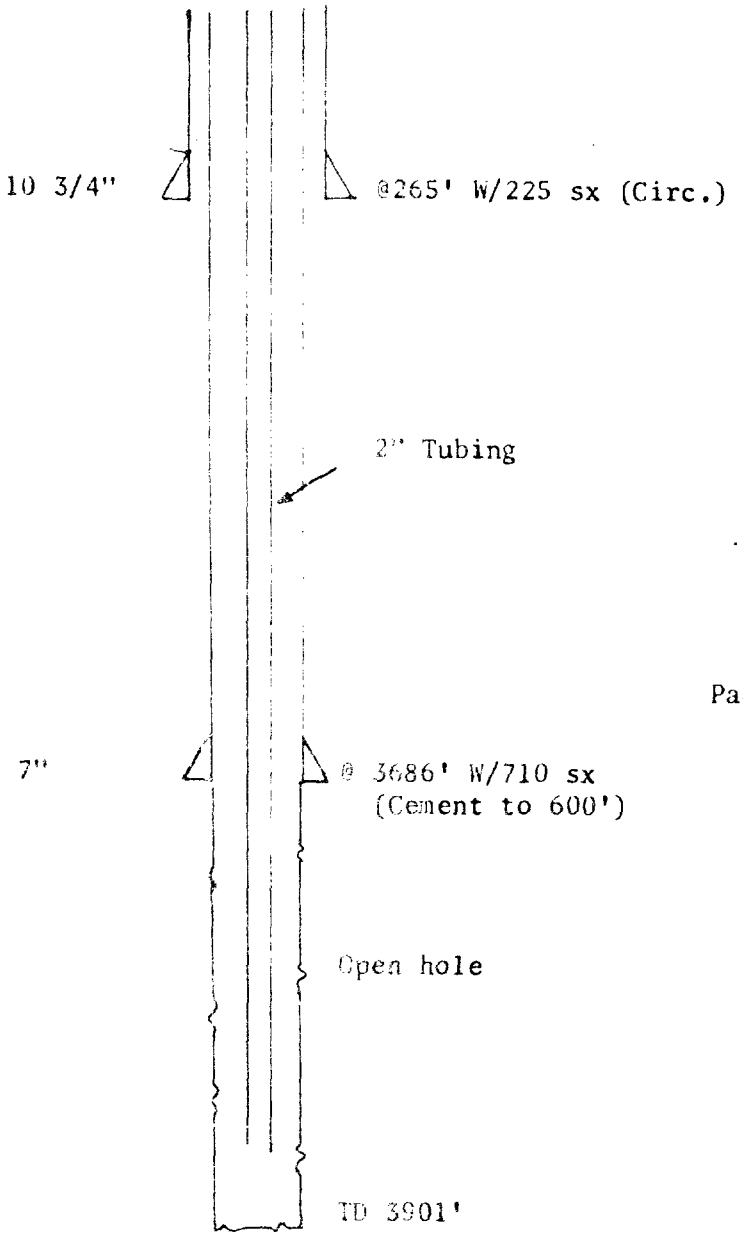
PROPOSED RECOMPLETION.



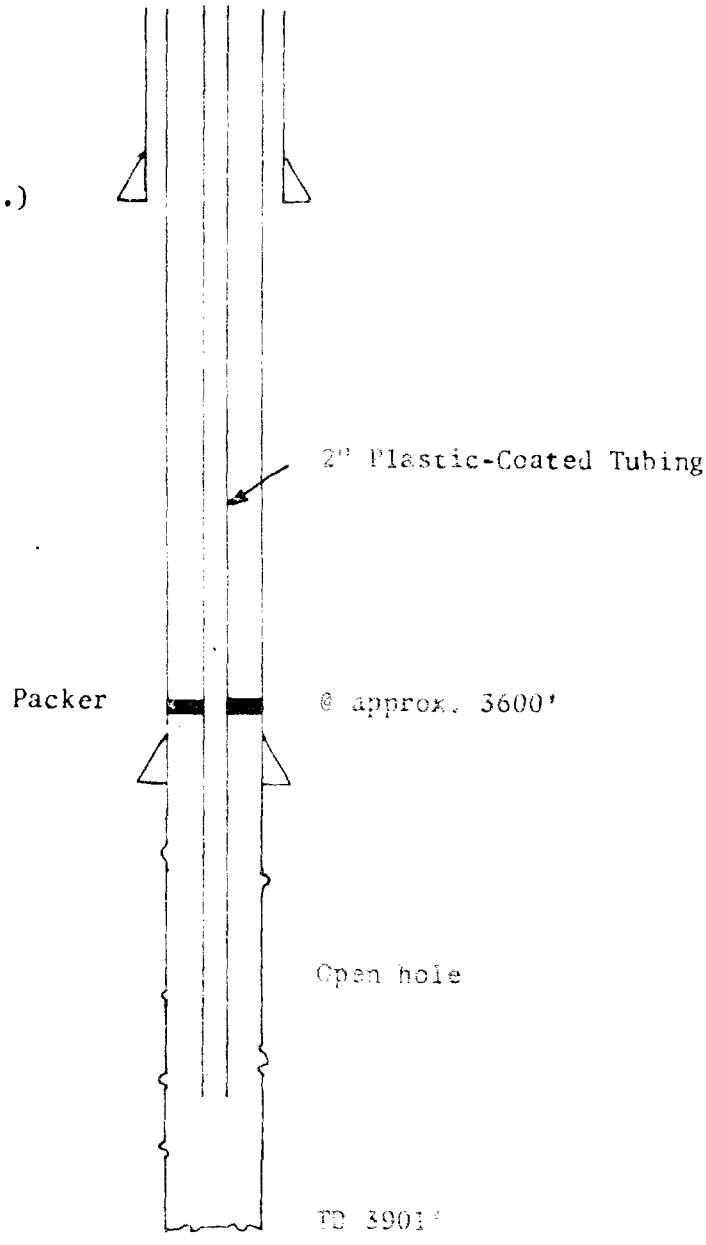
CONTINENTAL OIL COMPANY

SEMU- Permian No. 32

PRESENT CONDITION



PROPOSED RECOMPLETION

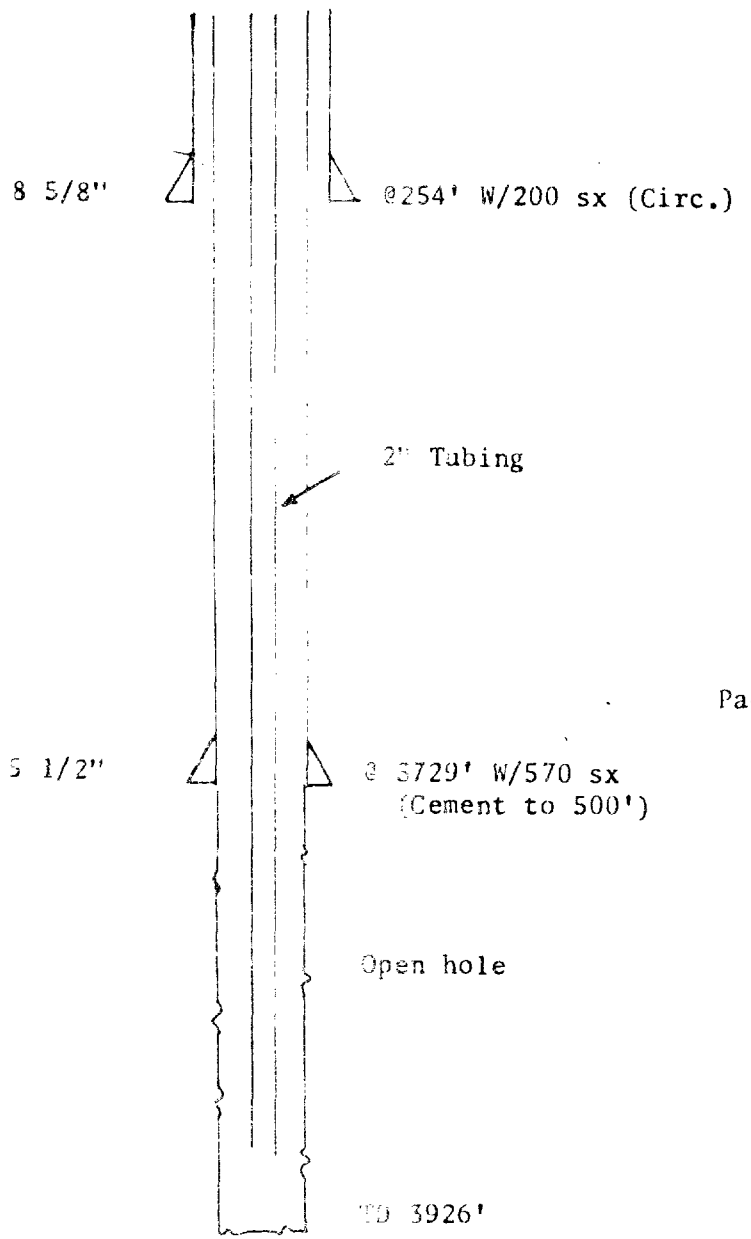


4d

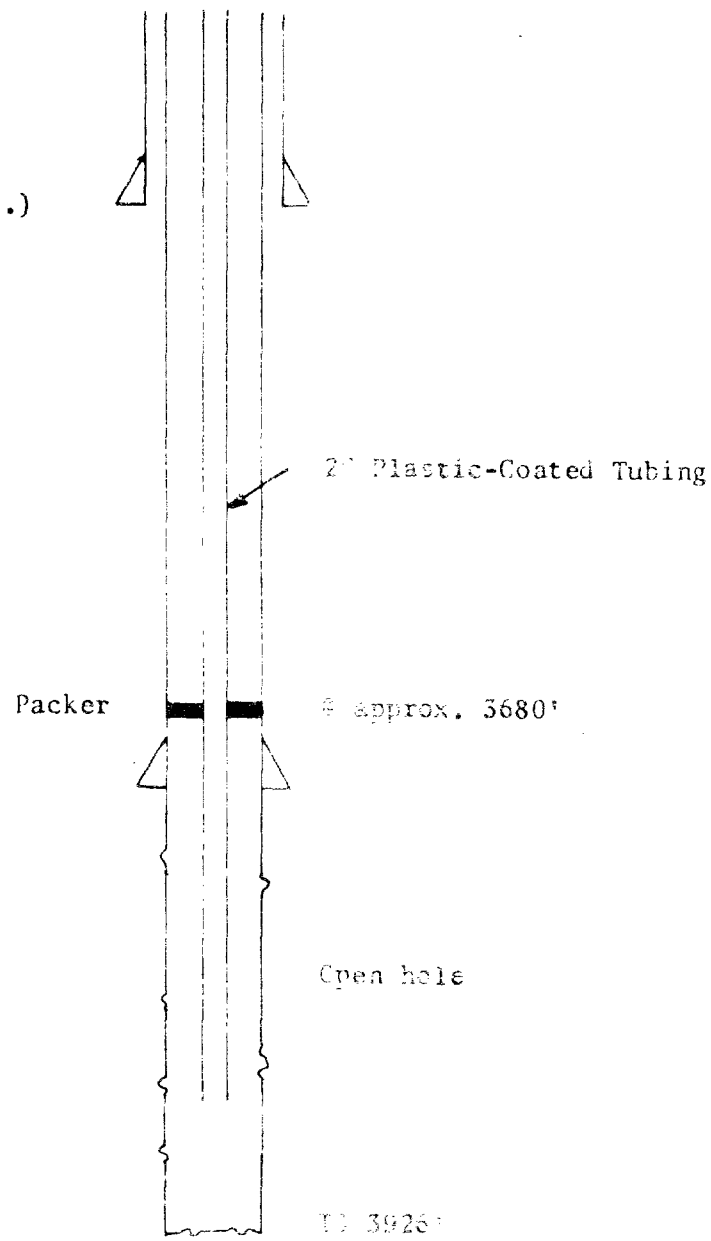
CONTINENTAL OIL COMPANY

SEMU- Permian No. 4C

PRESENT CONDITION



PROPOSED RECOMPLETION



LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

November 13, 1963

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Continental Oil Company dated November 12, 1963 which seeks to expand the Skaggs Pool Waterflood project by injecting water into the following:

SEMU Permian Wells 25, 26, 31, 32 and 40.

This office offers no objection to the granting of this application provided the plastic coated tubing and packers are installed as illustrated in Exhibits 4a, 4b, 4c, 4d and 4e.

Yours truly,

S. E. Reynolds
State Engineer

By: Frank E. Irby
Frank E. Irby
Chief
Water Rights Division

FEI/ma
cc-Continental Oil Co.
F. H. Hennighausen