

CASE 2550: Application of TEXACO  
for a quadruple completion of its  
G. L. ERWIN "B" NCT-2 WELL NO. 4.

3-1-1-1-1

2550

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fiction, Transcript,  
// Exhibits, Etc.

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. 2550  
Order No. R-2246

APPLICATION OF TEXACO INC. FOR  
A QUADRUPLE 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 May 10, 1962, 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 28th day of May, 1962, 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, Texaco Inc., seeks permission to complete its G. L. Erwin "B" NCT-2 Well No. 4, located in Unit O, Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (tubingless) in the North Justis-Fusselman, North Justis-Devonian, North Justis Tubb-Drinkard and North Justis-Blinbry Pools with the production of oil from the first two zones to be through parallel strings of 2 7/8-inch tubing and the production of oil from the latter two zones to be through parallel strings of 2 3/8-inch tubing, all cemented in a common well bore.

(3) That the mechanics of the proposed quadruple 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, Texaco Inc., is hereby authorized to complete its G. L. Erwin "B" NCT-2 Well No. 4, located in Unit

-2-

CASE No. 2550  
Order No. R-2246

O of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (tubingless) in the North Justis-Fusselman, North Justis-Devonian, North Justis Tubb-Drinkard and North Justis-Blinbry Pools with the production of oil from all zones through parallel strings of 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.

PROVIDED FURTHER, That the applicant shall take zone segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Fusselman formation.


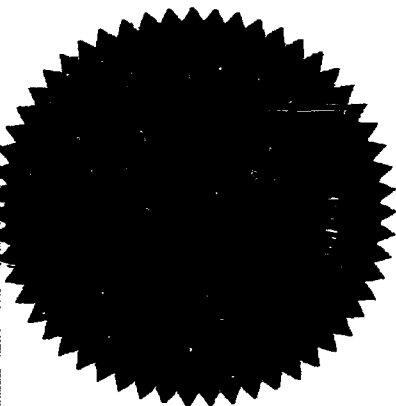
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, Chairman

  
E. S. WALKER, Member  
A. L. PORTER, Jr., Member & Secretary

esr/

GOVERNOR  
EDWIN L. MECHEM  
CHAIRMAN

State of New Mexico  
**Oil Conservation Commission**

LAND COMMISSIONER  
E. S. JOHNNY WALKER  
MEMBER



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

P. O. BOX 871  
SANTA FE

May 28, 1962

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

Re: Case No. 2550  
Order No. R-2246  
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.  
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC X

Artesia OCC       

Aztec OCC       

OTHER

TEXACO  
MAIN OFFICE ODE INC.

PETROLEUM PRODUCTS

1962 APR 16 AM 9:22



P. O. Box 728  
Hobbs, New Mexico  
April 11, 1962

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

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

Re: Application for Quadruple Tubing-  
less Completion, G. L. Erwin "b"  
NCT-2 Well No. 4.

Gentlemen:

Attached is Texaco's Application for Quadruple Tubingless Completion for its G. L. Erwin "b" NCT-2 Well No. 4 located 330 feet from the south line and 1650 feet from the east line, Section 35, Township 24-South, Range 37 East, Lea County, New Mexico. Texaco plans to complete this well as a quadruple tubingless oil completion in the North Justis Fusselman, North Justis Devonian, North Justis Tubb-Drinkard and North Justis Blinbry Pools. It is anticipated that all zones will be oil completions and will flow initially. Approval has been granted previously by the New Mexico Oil Conservation Commission for these zones in other wells in the North Justis area.

Also attached is a copy of the plat showing the area immediately surrounding Texaco's G. L. Erwin "b" NCT-2 Lease and a diagrammatic sketch of the proposed quadruple tubingless completion. It is respectfully requested that TEXACO Inc. be granted administrative approval for this application as provided for under Rule 112 A.

Yours very truly,

*H. N. Wade*

H. N. Wade  
Assistant District Superintendent

ODE-NCV

cc: NMOCC, Hobbs  
Offset Operators  
Attachments

## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

QUADRUPLE

APPLICATION FOR ~~WELL~~ COMPLETION

7-3-58

Field Name <b>North Justis (Blinbry, Tubb-Drinkard, Devonian &amp; Fusselman)</b>		County <b>Lea</b>	Date <b>April 12, 1962</b>
Operator <b>TEXACO Inc.</b>		Lease <b>G. L. Erwin (b) NCT-2</b>	Well No. <b>20</b>
Location of Well	Unit <b>0</b>	Section <b>35</b>	Township <b>24-S</b>
			Range <b>37-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the ~~well~~ completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐ **quadruple**

2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.: **See Attachment**

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir		
b. Top and Bottom of Pay Section (Perforations)	<b>SEE ATTACHMENT</b>	
c. Type of production (Oil or Gas)		
d. Method of Production (Flowing or Artificial Lift)		

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

- Yes** ☒ a. Diagrammatic Sketch of the ~~well~~ **Quadruple** 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 ~~well~~ **quadruple** 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.

**J. B. Frost, 2106 Tower Petroleum Bldg., Dallas 1, Texas**

**Parker Drilling Co., Commerce Bldg., Houston, Texas**

**Amerada Petroleum Corporation, Drawer D, Monument, New Mexico**

**Western Gas, 1006 Main Street, Hobbs, New Mexico**

**J. C. Williamson, 608 V&J Tower Bldg., Midland, Texas**

**Gulf Oil Corporation, Drawer 1938, Roswell, New Mexico**

**Shell Oil Corporation, P. O. Box 1858, Roswell, New Mexico**

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date of such notification **April 13, 1962**

CERTIFICATE: I, the undersigned, state that I am the **Asst. Dist. Supt.** 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.

**H. N. Wade**  
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.

APPLICATION FOR QUADRUPLE COMPLETION (CONT'D.)

Item 2.

R-2121 J. C. Williamson, Westates Federal Well No. 5 (Blinebry and Tubb-Drinkard)

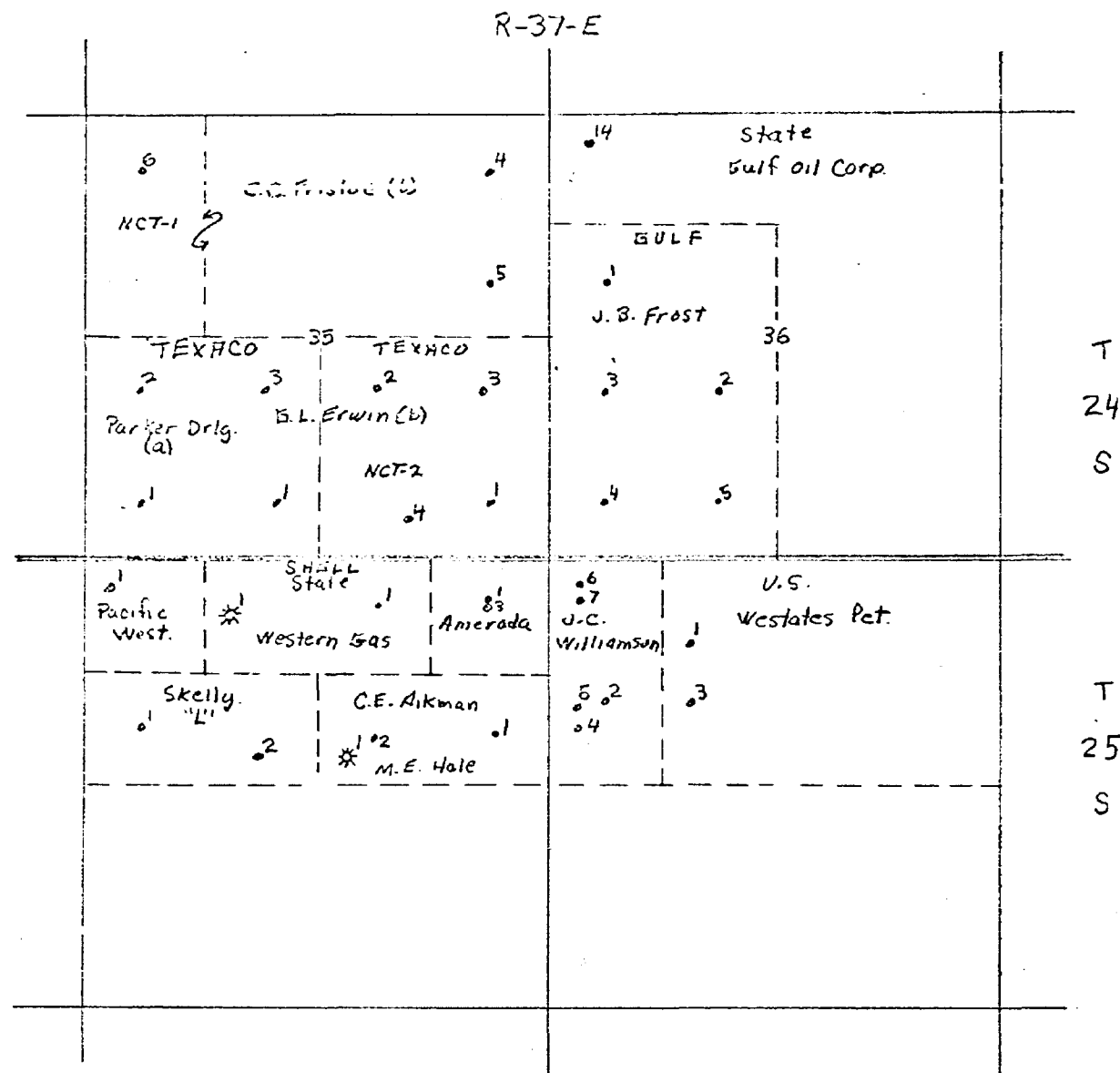
R-2109 TEXACO Inc., G. L. Erwin (b) NCT-2 Well No. 2 (Ellenburger, McKee, Fusselman, Devonian, and Tubb-Drinkard)

Item 3.

The following facts are submitted:

a. Name of Reservoir	Blinebry	Drinkard	Siluro- Devonian	Fusselman
b. Top and Bottom of Pay Sections (Perforations)	5600-50	5980-6080	6950-7050	7130-90
c. Type of Production (Oil or Gas)	Oil	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow	Flow	Flow





PLAT OF TEXACO Inc. G. L. ERWIN "b" NCT-2 LEASE  
AND OFFSET LEASES  
Lea County, New Mexico  
Scale: 1" = 2000'

OFFSET OPERATORS

J. B. Frost - 2106 Tower Petroleum Bldg. - Dallas 1, Texas  
Parker Drilling Co. - Commerce Bldg. - Houston, Texas  
Amerada - Drawer D - Monument, New Mexico  
Western Gas - 1006 Main St. - Hobbs, New Mexico  
J. C. Williamson - 608 V&J Tower - Midland, Texas  
Gulf Oil Corporation, Drawer 1938 - Roswell, New Mexico  
Shell Oil Corporation - Box 1858 - Roswell, New Mexico

Case 2550

DIAGRAMMATIC SKETCH - QUADRUPLE INSTALLATION (TUBINGLESS)  
 TEXACO Inc. G. L. Erwin (b) NCT-2 Well No. 4  
 North Justis (Blinebry, Tubb-Drinkard, Devonian and Fusselman)

NOTE: Top 1500' of W-BI.) String to be plastic coated for expected mild paraffin.

Radioactive collar on top of 4' sub at 5570'

Top at: 5600  
 Name: Blinebry

Type Prod: Oil

Bottom at: 5650

Radioactive collar on top of 8' sub at 5950'

Top at: 5980  
 Name: Drinkard

Type Prod: Oil

Bottom at: 6080

Radioactive collar on top of 6' sub at 6920'

Top at: 6950  
 Name: Siluro-Devonian

Type Prod: Oil

Bottom at: 7050

10' sub at 7100

Top at: 7130  
 Name: Fusselman

Type Prod: Oil

Bottom at: 7190

13-3/8" csg. at 255'  
 Cmt. circulated

13-3/4" & 9-5/8" csg. at 3470 DV tool at 2799'.  
 Top of cement at 1875'  
 (Top 5 jts. 10-3/4 csg.)

SSD at 5550  
 Perforated:

5600 - 5650 (Est.)

SSD at 5700

SSD at 5960  
 Perforated:

5980 - 6080 (Est.)

SSD at 6100

SSD at 6760  
 Perforated:

6950 - 7050 (Est.)

SSD at 7110

Perforated:

7130 - 7190 (Est.)

SSD at 7220

TOTAL DEPTH 7459

CASING STRINGS:

Blinebry (W-BI.) 2-3/8" set at 6200'  
 Drinkard (X-Dr.) 2-3/8" set at 7459'  
 Devonian (Y-SID) 2-7/8" set at 7100'  
 Fusselman (Z-Fu.) 2-7/8" set at 7459'

NOTE: Cementing to be accomplished by cementing through (X-Dr.), (Y-SID) and (Z-Fu) strings with approximately 1150 sacks of cement. Calculated top of cement at 2800'. Primary cementing to be supplemented by squeeze cementing through Otis Type "A" Sliding Side Doors (SSD).

No. 14-62

DOCKET: EXAMINER HEARING - THURSDAY - MAY 10, 1962

OIL CONSERVATION COMMISSION - 9 A.M. - MORGAN HALL, 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 2547: Application of Pan American Petroleum Corporation for a triple completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Greenwood Unit Well No. 7, located in Unit H, Section 12, Township 19 South, Range 31 East, Eddy County, New Mexico, in such a manner as to permit the production of oil from undesignated Strawn, Wolfcamp, and Bone Spring pools through parallel strings of tubing.

CASE 2548: Application of Pan American Petroleum Corporation for an exception to Order No. R-660, Caprock-Queen Pool, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Special Rules and Regulations of the Caprock-Queen Pool, Order No. R-660, for the assignment of a gas allowable equivalent to the total reservoir voidage of a top allowable oil well producing at the limiting GOR of 2000: 1 for its State "AK" Well No. 1 located in Unit N, Section 19, Township 15 South, Range 31 East, Chaves County, New Mexico.

CASE 2549: Application of Cities Service Petroleum Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Hodges B Well No. 4, located in Unit M of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the North Justis Tubb-Drinkard Pool and Devonian formation adjacent to the North Justis-Devonian Pool with the production of oil from each zone to be through parallel strings of 2 3/8-inch tubing.

CASE 2550: Application of Texaco Inc., for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its G. L. Erwin "B" NCT-2 Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, as a quadruple completion (tubingless) in the North Justis-Fusselman, North Justis-Devonian, North Justis Tubb-Drinkard and North Justis-

Docket No. 14-62

Blinebry Pools, with the production of oil from all zones to be through parallel strings of small diameter casing cemented in a common well bore.

CASE 2551:

Application of Texaco Inc., for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its G. L. Erwin "A" Well No. 1, located in Unit N of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, as a triple completion (tubingless) in the North Justis-Devonian, North Justis-Tubb Drinkard and North Justis-Blinebry Pools with the production of oil from all zones to be through parallel strings of small diameter casing cemented in a common well bore.

CASE 2552:

Application of Texaco Inc., for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order R-2109 to permit the quadruple completion (tubingless) of its G. L. Erwin "B" NCT-2 Well No. 2, located in Unit J of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, in the North Justis-Blinebry Pool, North Justis Tubb-Drinkard Pool, an undesignated Paddock pool and an undesignated Devonian pool with the production of oil from all four zones to be through parallel strings of 2 3/8-inch casing cemented in a common well bore.

CASE 2553:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment to Order R-2181 to permit the triple completion (conventional) of its C. H. Weir "B" Well No. 3, located in Unit G of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, in the Skaggs-Glorieta and Skaggs-Drinkard Oil Pools and in an undesignated Blinebry Oil pool with the production of oil from the Glorieta and Drinkard zones to be through parallel strings of 2 1/16-inch tubing and the production of oil from the Blinebry zone to be through a dual zone flow tube and a string of 1-inch tubing.

CASE 2554:

Application of T. F. Hodge for an order creating a new pool and establishing temporary rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order creating a new pool for Pennsylvanian production; the discovery well for said pool is the Humble-State Well No. 1, located in

Unit N of Section 26, Township 10 South, Range 33 East, Lea County, New Mexico, completed in the Bough "C" zone of the Pennsylvanian formation with perforations from 9667 feet to 9671 feet. Applicant further seeks establishment of special rules and regulations governing said pool, including 60-acre proration units.

CASE 2555:

Application of Gulf Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its J. F. Janda (NCT-F) Well No. 6, located in Unit D of Section 4, Township 22 South, Range 36 East, Lea County, New Mexico, as a dual completion (conventional) in the Jalmat Gas Pool and South Eunice Pool with the production of oil from the Jalmat Gas Pool to be through a string of 1 1/4-inch tubing and the production of oil from the South Eunice Pool to be through a parallel string of 2 3/8-inch tubing.

CASE 2556:

Application of Gulf Oil Corporation for an unorthodox oil well location and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Lillie Well No. 3, located 2310 feet from the North line and 330 feet from the West line of Section 23, Township 24 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in the Fowler-Fusselman and Fowler-Ellenburger Pools with the production oil from both zones to be through a parallel strings of tubing. Said well is at an unorthodox location under the Fowler-Ellenburger Pool Rules.

CASE 2557:

Application of Gulf Oil Corporation for a unit agreement and a secondary recovery project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dollarhide Devonian Unit Agreement embracing 765.25 acres, more or less, of Federal and State lands in Townships 24 and 25 South, Range 38 East, Lea County, New Mexico. Applicant further seeks permission to institute a secondary recovery project in the proposed West Dollarhide Devonian Unit Area by injection of water into the Devonian formation into certain wells located in said unit.

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Date 5/22/62

CASE 2550

Hearing Date 9am 5/10/62  
DSN @ SF

My recommendations for an order in the above numbered cases are as follows:

*Sub in order approving*  
Texaco's proposed quadruple  
completion (tubingless) of its  
H. L. Erwin "h" NCT-2 well No 4  
located in unit O, Sec 35, T24S, R37E,  
NMPM to produce oil from  
the U. Justis Threlman, U. Justis  
Devonian, U. Justis Tubo-Threlman,  
and U. Justis Blumby Pools, Lea Co.,  
through parallel strings of 2 7/8, 2 7/8,  
2 3/4, and 2 3/8 inch tubing respectively,  
all cemented in common  
well bore.

*Asm*  
Staff Engineer

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

April 23, 1962

Texaco Inc.  
P. O. Box 728  
Hobbs, New Mexico

Attention: Mr. H. N. Wade

Gentlemen:

Reference is made to our letter, dated April 17, 1962, wherein we advised that your application for a quadruple completion of your G. L. Erwin "b" NCT-2 Well No. 4 in Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, is being set for hearing before one of the Commission's examiners on May 9, 1962.

The date of the examiner hearing has been changed to May 10, 1962, and your application is being docketed for hearing on this date.

Very truly yours,

RICHARD S. MORRIS  
Attorney

RSN/esr

*Noted  
4/26/62*

OIL CONSERVATION COMMISSION

P. O. BOX 871  
SANTA FE, NEW MEXICO

April 17, 1962

Texaco Inc.  
P. O. Box 728  
Hobbs, New Mexico

Attention: Mr. H. N. Wade

Gentlemen:

Reference is made to your application for a quadruple completion of your G. L. Erwin "b" NCT-2 Well No. 4 in Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

Your application is not eligible for administrative approval, and, accordingly, is being set for hearing before one of the Commission's examiners on May 9, 1962. 10/10

In the event the date your application will be heard is not suitable to you, or if I can be of further assistance to you in this matter, please advise.

Very truly yours,

J. E. WHITFIELD  
Legal Assistant

JEW/esr

C  
O  
P  
Y



1962 APR 27 11 7 43  
OIL CONSERVATION COMMISSION  
BOX 2045  
HOBBS, NEW MEXICO

DATE April 25, 1962

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

Re: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFC \_\_\_\_\_

Proposed DC \_\_\_\_\_  
Quadruple

Gentlemen:

I have examined the application dated 4/15/62  
for the Texaco, Inc. G. L. Erwin (b) NCT-2 #4 35-24-37  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

May 10, 1962--Case 2550----E.F.E.

Due to the geological nature of the steeply dipping formations of the  
Devonian & Fusselman, the correctness of the proposed completions in these  
two zones is undeterminable without a well log. Proposed Blinebry &  
Drinkard completions geologically O.K.---J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 315-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
May 10, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco Inc., for a  
quadruple completion, Lea County, New  
Mexico. Applicant, in the above-  
styled cause, seeks permission to  
complete its G. L. Erwin "B" NCT-2  
Well No. 4, located in Unit O of Section  
35, Township 24 South, Range 37 East,  
Lea County, New Mexico, as a quadruple  
completion (tubingless) in the North  
Justis-Fusselman, North Justis-  
Devonian, North Justis Tubb-Drinkard  
and North Justis-Blaine Pools, with  
the production of oil from all zones  
to be through parallel strings of small  
diameter casing cemented in a common  
well bore.

Case 2550

BEFORE: Mr. Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: We will call Case 2550.

MR. MORRIS: Application of Texaco Inc., for a quadruple  
completion, Lea County, New Mexico.

MR. WHITE: If the Examiner please, Charles White,  
Gilbert, White and Gilbert, Santa Fe, New Mexico, appearing on



behalf of the applicant. We have one witness to be sworn at this time.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 5 were marked for identification.)

C. R. BLACK

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

DIRECT EXAMINATION

BY MR. WHITE:

Q Would you state your full name for the record, please?

A C. R. Black.

Q By whom are you employed and in what capacity?

A I am employed by Texaco Inc. as a petroleum engineer out of Texas.

Q Have you previously testified before the Commission as a petroleum engineer?

A Yes, I have.

Q Have your qualifications been accepted of record?

A They have.

MR. WHITE: Is the witness qualified for this hearing?

MR. NUTTER: Yes, sir. Please proceed.

Q (By Mr. White) Mr. Black, are you familiar with the

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1142

ALBUQUERQUE, N. M.  
PHONE 243-6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6591

subject application?

A Yes, I am.

Q Will you briefly state what Texaco is seeking?

A This is the application of Texaco Inc. for a triple tublingless completion for our G. L. Erwin (a) Well No. 1. This well is triply completed in the North Justis-Devonian, North Justis Tubb-Drinkard and North Justis-Blinebry Pool.

Q Will you state the location of the well, and in so doing refer to what has been marked Exhibit No. 1?

A Exhibit No. 1 is a plat showing the immediate area surrounding the Texaco G. L. Erwin L lease. The location of the subject well is shown circled in red, being located in Unit O of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico, with the subject lease being bordered in yellow. The footage location of this well is 330 feet from the south line and 2310 feet from the west line of Section 35, Township 24 South, Range 37 East.

Q Does it also show the offset operators?

A Yes, sir, the offset operators and their wells are shown with the appropriate field designation of each of the offset wells being shown below the wells. Also a list of the offset operators and their mailing address is shown at the base of the exhibit.



MR. MORRIS: Are we on Case 2550? I think the Case 2550 is concerned with the G. L. Erwin "B" NCT-2 Well.

A We are on Case 2551.

MR. NUTTER: We will call Case 2551.

(Whereupon, testimony in Case 2551 was heard.)

MR. NUTTER: We will call Case 2550 again.

MR. WHITE: May the record show the same witness and also duly sworn?

MR. NUTTER: Yes, it will.

MR. WHITE: May his qualifications also be of record?

MR. NUTTER: Yes, sir.

DIRECT EXAMINATION

BY MR. WHITE:

Q Mr. Black, you are the same witness that testified in the previous Case 2551?

A Yes, sir.

Q Will you, in referring to Case 2550, will you state the location of the subject well?

A Referring to Exhibit 1 in this case, the location of the subject well footagewise is 330 feet from the south line and 1650 feet from the east line of Section 35, Township 24 South, Range 37 East. Exhibit No. 1 is a plat showing the immediate area surrounding the Texaco G. L. Erwin "B" Lease. The Erwin "B"



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

Lease is shown bordered in yellow with the subject well circled in red. Also shown are the offset operators, their wells and appropriate field designations for these wells. A list of the offset operators with their mailing addresses is shown at the base of the exhibit.

Q Will you give the status of this particular well?

A At the present time this well has reached total depth and we have completed the Blinebry and Fusselman zones and we are currently in the process of completing in the Tubb-Drinkard and Devonian formations.

Q Will you refer to what has been marked Exhibit No. 2 and give the well history?

A Exhibit 2 is a diagrammatic sketch of the triple completion, or the quadruple completion installation, a 17½" hole was drilled to 255', and at that point we set 13-3/8" casing. Cement was circulated to the surface with 350 sacks. We continued with a 12¼" hole to 3470'. At that point we set a combination string of 10-3/4" and 9-5/8" at 3470'. This was circulated with 1050 sacks. The top was determined to be at 3755' by temperature survey.

We continued on to total depth, a total depth of 7459'. At that point we ran four strings of tubing. This was four strings of 2-7/8" tubing. There were two strings of 2-7/8 and two



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strings of 2-3/8. We cemented down all strings with a total of 1924 sacks of cement. The top of the cement is at 1800'. The primary cementing operation was then supplemented by squeeze cementing through the Otis Type "A" sliding type doors that were installed in the string designated as string X. The depth of the sliding doors is shown on the exhibit.

Also it will be noted that on the other strings of tubing, on all four strings of tubing we ran short subjects with radioactive collars on each end. The purpose of that was for the gamma ray correlation log in the perforating operations.

Q Have the mechanics of this procedure also been previously approved by the Commission?

A Yes, sir, the mechanics of this completion are the same as the previous case, and they have been approved in other cases by the Commission.

Q Will you give the crude characteristics?

A The Fusselman formation was perforated from 7137' to 7146'. On potential test ending May 4, 1962 the zone flowed 129 barrels of oil in twenty-four hours through 24/64" choke with a GOR too small to measure. This is intermediate sweet crude with a gravity of 37.4 degrees, and the bottom hole pressure is estimated at 2540 psi.

The Siluro-Devonian formation has not been completed at the



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present time. However, we do anticipate perforating from 7038 to 7050. We expect an intermediate sweet crude with a gravity of approximately 36 degrees. We estimate the GOR at approximately 700, and we estimate the bottom hole pressure at approximately 2320 psi.

The Drinkard formation, it is anticipated that we will perforate through various perforated intervals as shown on the exhibit from 5990 to 6082'. We expect an intermediate sweet crude with a gravity of 32 degrees, and an estimated gas-oil ratio of 900.

Q How about the Blinebry?

A The Blinebry formation was perforated through various perforated intervals from 5454 to 5616', and on potential test ending April 25, 1962 this zone flowed 81 barrels of oil in twelve hours, for a total of 162 barrels of oil for twenty-four hour rate through an 18/64" check with a GOR of 7160. This is a sour crude with a gravity of 36.5 degrees, and the estimated bottom hole pressure is 2450 psi.

Q Do you anticipate any corrosive or paraffin problems in the Blinebry?

A Again, in the Blinebry only we anticipate corrosion and paraffin. We plastic coated the upper 1500' of this tubing string for paraffin control, and we'll conduct periodic coupon





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surveys to determine if excessive corrosion is occurring. If we find it is we will take the necessary steps to correct this.

Q Can the production from these three zones be artificially lifted if the need so requires?

A Yes, all four zones.

Q Do you have a log of the well?

A Yes, that's marked as Exhibit No. 3. This log shows the appropriate formation tops and the perforated intervals for each zone.

Q Have all these four zones been approved for multiple completion in the area?

A Yes, they have been approved in various multiple completions in the area.

Q Would you point out such completions on Exhibit No. 1?

A Again, the Shell State J. M. immediately south of the subject well is a dual completion in the Fusselman and Devonian. The C. E. Eichman immediately south of the Well No. 2 is a dual completion in the Drinkard and Fusselman, and the J. C. Williamson Westates Well No. 5 in Section 1 is a dual in the Blinebry and Drinkard. And then various formations have been completed in other wells in the area.

Q Were these exhibits prepared by you or under your direction and supervision?



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A Yes, they were.

MR. WHITE: At this time we offer Exhibits 1 through 3.

MR. NUTTER: Texaco's Exhibits 1 through 3 will be admitted in evidence.

MR. WHITE: That concludes our direct examination.

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

(Witness excused.)

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

MR. WHITE: Not in this case.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2550? We will take the case under advisement and call Case 2552.



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STATE OF NEW MEXICO )  
 ) ss  
COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

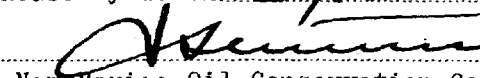
IN WITNESS WHEREOF I have affixed my hand and notarial seal this 31st day of May, 1962.

  
Notary Public-Court Reporter

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. 2550, heard by me on 5/10, 1962.

, Examiner  
New Mexico Oil Conservation Commission

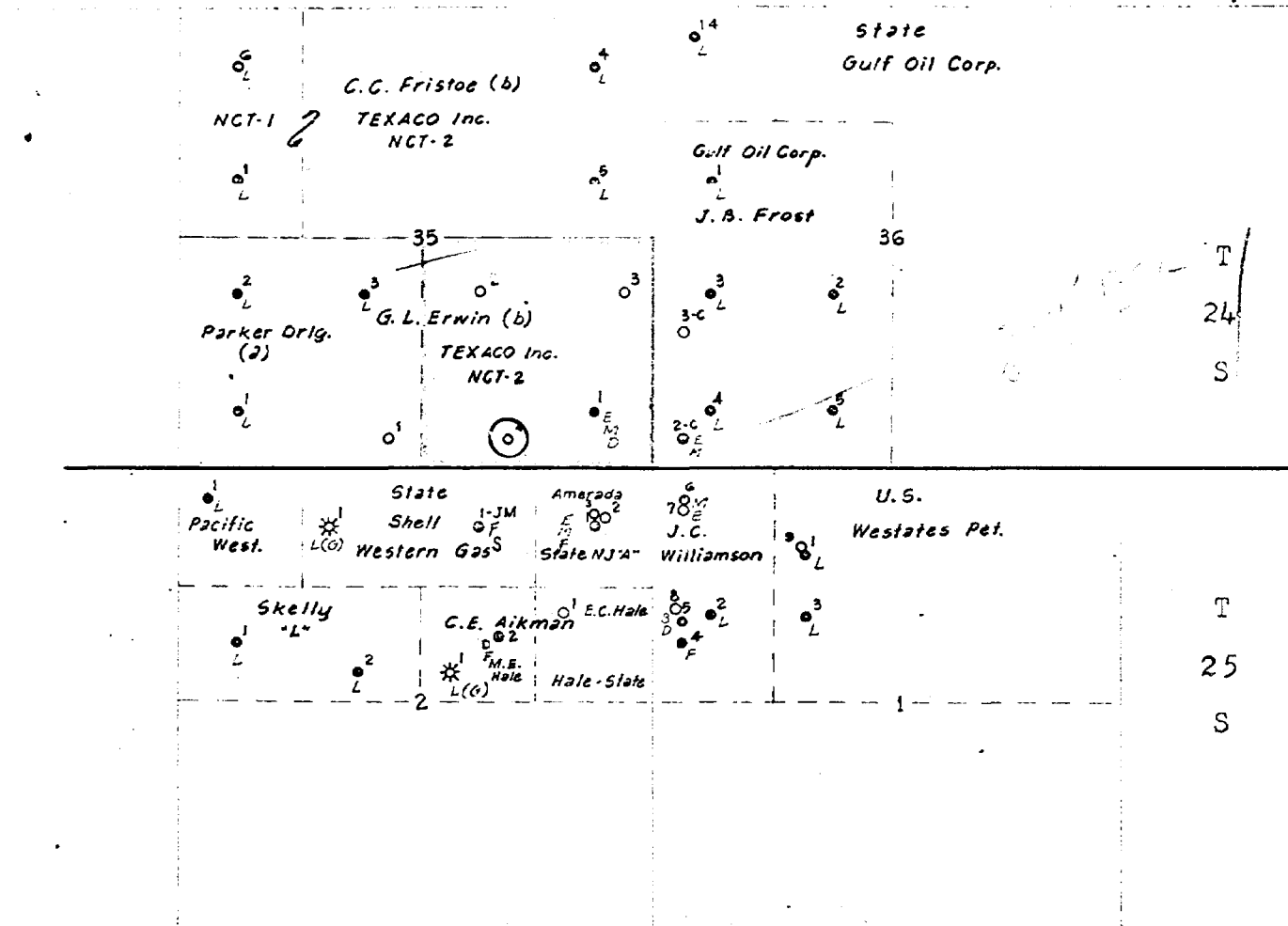


**BEFORE EXAMINER NUTTER**  
**OIL CONSERVATION COMMISSION**

EXHIBIT NO. 1

CASE NO. 2550

R-37-E



PLAT OF TEXACO Inc. G. L. ERWIN "b" NCT-2 LEASE  
AND OFFSET LEASES  
Lea County, New Mexico  
Scale: 1" = 2000'

**OFFSET OPERATORS**

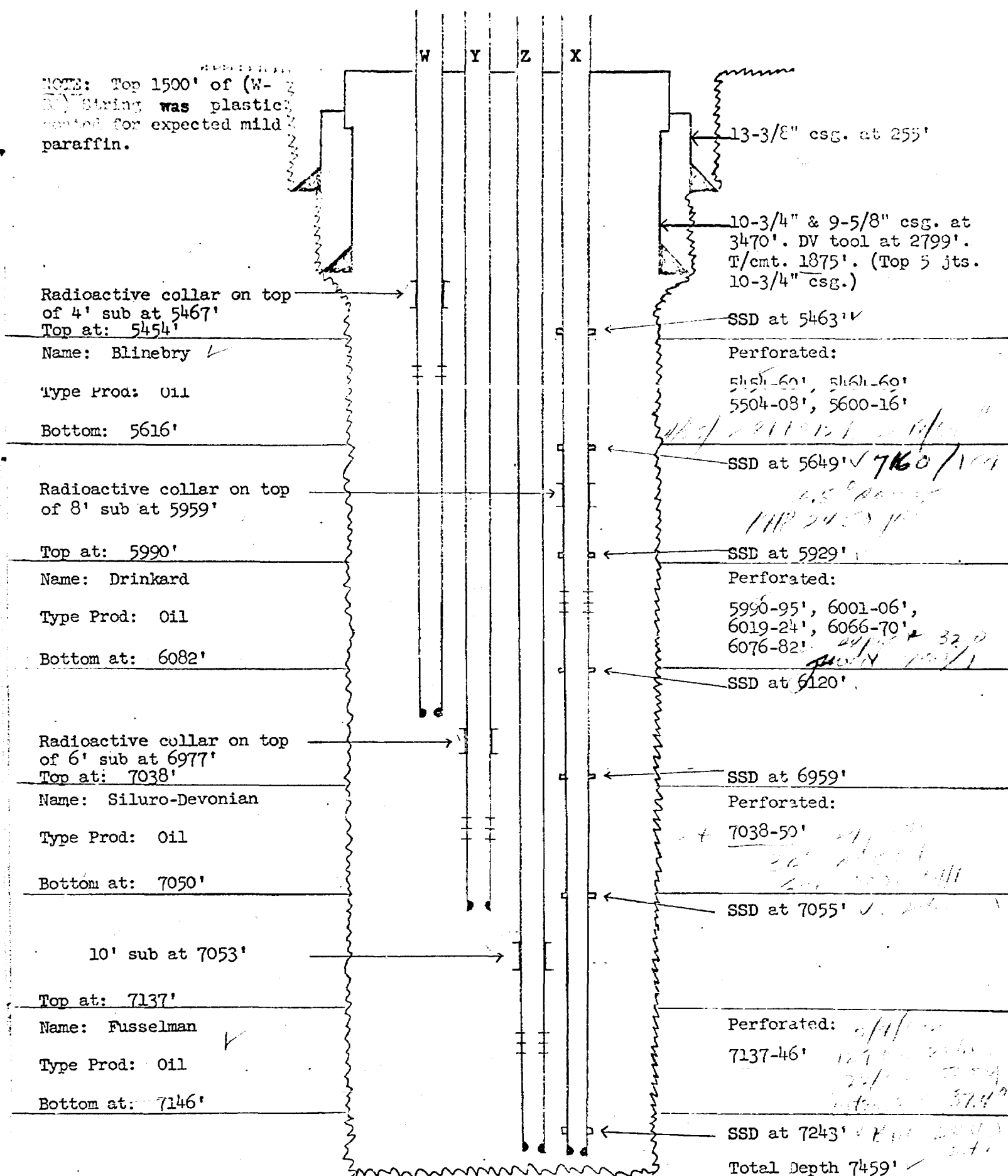
J. B. Frost - 2106 Tower Petroleum Bldg. - Dallas 1, Texas  
Parker Drilling Co. - Commerce Bldg. - Houston, Texas  
Amerada - Drawer D - Monument, New Mexico  
Western Gas - 1006 Main St. - Hobbs, New Mexico  
J. C. Williamson - 608 V&J Tower - Midland, Texas  
Gulf Oil Corp. - P. O. Box 2167 - Hobbs, New Mexico  
Shell Oil Corporation, Box 1858, Roswell, New Mexico

Diagrammatic Sketch - Quadruple Installation (Tubingless)

TEXACO Inc. G. L. Erwin (b) NCT-2 Well No. 4

North Justis (Blinebry, Tubb-Drinkard, Devonian and Fusselman)

NOTE: Top 1500' of (W-  
B) String was plastic  
coated for expected mild  
paraffin.



Casing Strings: Blinebry (W-B1) 2-3/8" set at 6205'  
Drinkard (X-Dr) 2-3/8" set at 7459'  
Devonian (Y-SiD) 2-7/8" set at 7103'  
Fusselman (Z-Fu) 2-7/8" set at 7459'

Cement: Cemented down all four strings with 100 sacks of Incor mixed 1:1 with pozzalanic material. Top of cement at 1800 feet. Primary cementing supplemented by squeeze cementing through Otis Type "A" Sliding Side Doors (SSD)

BEFORE EXAMINER NUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 2  
CASE NO. 2550