

CASE 5214: TEKACO INC. FOR DOWNHOLE  
CORRELATING, LEA COUNTY, NEW MEXICO

CASE NO.

55/4

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APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,

ETC.

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
July 2, 1975

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco, Inc.  
for downhole commingling,  
Lea County, New Mexico

CASE NO. 5514

BEFORE: Richard L. Stamets, Examiner

# TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

Thomas Derryberry, Esq.  
Legal Counsel for the  
Commission  
State Land Office Building  
Santa Fe, New Mexico

For the Applicant:

Booker Kelly, Esq.  
WHITE, KOCH, KELLY & McCARTHY  
220 Otero  
Santa Fe, New Mexico

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I N D E XPAGEWAYNE PIERCE

Direct Examination by Mr. Kelly  
Cross Examination by Mr. Stamets

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E X H I B I T S

Applicant's Exhibits Nos. 1 through 5

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MR. STAMETS: Case 5514.

MR. DERRYBERRY: Case 5514. Application of Texaco, Inc. for downhole commingling, Lea County, New Mexico.

MR. KELLY: Booker Kelly of White, Koch, Kelly and McCarthy on behalf of the Applicant. We have one witness and we ask that he be sworn.

MR. STAMETS: Are there any other appearances in this case? The witness will stand and be sworn.

(Witness sworn.)

WAYNE PIERCE

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

DIRECT EXAMINATION

BY MR. KELLY:

Q Would you state your name, position and employer, please?

A My name is Wayne Pierce. I am District Production Engineer for Texaco, Incorporated of Hobbs, New Mexico.

Q What does Texaco seek by this Application?

A Texaco seeks authority to downhole commingle production in the Justis Field from the Justice Devonian, Justice Blinebry, Justice Fusselman north to the Justis Tubb-Drinkard in their G. L. Erwin "B" Federal Tract 2

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Well No. 4 located in Unit O of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

Q Is that well identified on what is marked Exhibit No. 1?

A Yes, it is. The subject lease is outlined in yellow with the subject well indicated by the red arrow.

Q What is the present status of this well?

A It is currently producing all zones or producing the Blinebry, the Tubb-Drinkard and the Fusselman Zones are currently downhole commingled. It is being produced by rod pump. The Devonian Zone is currently flowing. The commingling of the three zones including the Blinebry is Fusselman and the Tubb-Drinkard was previously approved by Order No. 4869, issued on October 9th, 1974.

Q So, all you are doing is adding the Devonian to the downhole commingling, is that correct?

A That is correct.

Q Referring to what has been marked as Exhibit No. 2, your data sheet, would you briefly go through that?

A The upper zone is the Justis Blinebry. It is currently being produced with a rod pump. It has a bottomhole pressure of 766 PSI. The type of crudes for all four zones is sweet. The gravity is the same. The

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completion interval for the Blinebry Zone was 5036 feet to 5616 feet. Current tests on the Blinebry Zone is 14 oil and 26 barrels of water per day. The selling price of all four crudes is the same, \$5.78 per barrel.

The Justis Tubb-Drinkard is also on the rod pump and has a bottomhole pressure of 800 PSI. Again, the type of crude is sweet and the gravity is the same as the Blinebry. The completion interval was from 5990 to 6092 feet. Current tests on this zone is 11 barrels of oil and 26 barrels of water per day.

The Justis North Fusselman Zone, which is the other third zone of the currently downhole commingled zones is also being produced on rod pump. It has a bottomhole pressure of 1000 PSI. Again, the type of crude is sweet with a gravity of 37.4. The completion interval was from 7137 to 7146. Current tests on this zone is 45 barrels of oil and 95 barrels of water per day.

I might add that the tests on these three zones are currently on an allocation which was approved by the Commission.

Q Now, when you got your order commingling the other three zones, what was your production in the Devonian?

A At that time, the Devonian Zone was producing

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approximately 20 barrels per day. It was on flowing status, and at the time of downhole commingling of these other three zones, we stimulated the Devonian Zone which resulted in a production increase, but since that time, it has dropped off rather drastically and it produces at a rate of less than a half barrel per day. It periodically dies and we have to swab it back in when swab tests are indicated, but it produced approximately 5 barrels per day if we place it on rod pump.

Q That is what you assume your increased production will be upon approval of this Application?

A That is correct.

Q I take it, then, that in your opinion, the Devonian has more than reached its economic limits?

A Under its current producing method, that is correct.

Q Referring to Exhibit No. 3, your present completions, would you explain that briefly?

A The well was completed in May of 1962 with 2 and 3/8 and 2 and 7/8 casings set at various depths from 6205 down to the total depth of 7459 feet. All four zones were cemented in place with 1050 sacks of cement with a calculated cement top of 1875 feet. As indicated on the

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schematic, the completion intervals for all four zones are noted. The three zones, including the Blinebry, Tubb-Drinkard and the North Justis Fusselman are downhole commingled as indicated with communication established between the Tubb-Drinkard Zone and the Fusselman Zone at 7137 to 7146. Likewise, the Blinebry was communicated with the Tubb-Drinkard from 5036 to 5616 feet. The pumping equipment was put right into the Fusselman Zone and all three zones were then produced up the Fusselman string. The Devonian is currently on flowing status.

Q Have you had any problems with your triple downhole completion?

A No, sir.

Q Exhibit No. 4 is your proposed completion with the addition of the Devonian, is that correct?

A That is correct. The only addition here is that the downhole commingling of the Devonian Zone with the other three would be accomplished by shooting across from the Tubb-Drinkard Zone into the Devonian string at the depth of the Devonian completion which is from 6924 to 7050 feet. We would still produce all zones out of the Fusselman string.

Q Now, Exhibit No. 5 is your performance curve for

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the Devonian, is that correct?

A That is correct. As indicated on the performance curve in the latter part of 1974 when we downhole commingled the other three zones, the Devonian was down to a rate of about 20 barrels per day. This was on a flowing status. At the same time, when we commingled the other three zones, we stimulated this zone which resulted in a production increase, but as can be seen, this was short lived. It declined rather drastically, and it is down to a rate below what would be considered economical to produce. We anticipate by downhole commingling this zone with the other three that we will get a five-barrel increase and that this will allow us to recover approximately 1960 barrels of additional reserves that we would not otherwise be able to recover. In addition to this, it will extend the life of the Devonian Zone.

Q How would you readjust the allocation of these four zones?

A We would do it on the same basis as the original allocation of the three previously commingled zones, and this would be based on our anticipated production increase of 5 barrels per day for the Devonian. The allocation that we would recommend would be 7 percent for the Devonian,

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PIERCE-DIRECT

19 percent for the Blinebry Zone, 14 percent for the Drinkard and 60 percent for the Fusselman.

Q You don't feel that adding the Devonian is going to have any adverse effect on the other zones?

A No, sir.

Q Were Exhibits 1 through 5 prepared by you or under your supervision?

A They were.

MR. KELLY: I would move the introduction of Applicant's Exhibits 1 through 5.

MR. STAMETS: These exhibits will be admitted.

(Whereupon, Applicant's Exhibits Nos. 1 through 5 were marked for identification, and were offered and admitted into evidence.)

MR. KELLY: We have nothing further on direct.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Pierce, will the gas from these various zones be produced up the individual strings of tubing?

A That is correct. They will be venting the gas from all of the zones except the Fusselman up these off strings.

Q Venting or selling?

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A Venting. We will be selling it, but we will be producing the gas up the strings where we won't have to produce it through our pumping equipment.

Q How long, following the commingling of the Devonian would these other strings, tubing strings, would you know for sure what your stabilized rate of production will be from the Devonian?

A You mean, after we --

Q (Interrupting) After you perform the work?

A When we commingle the one with these three zones?

Q Right.

A Well, the production increase that we anticipate is based on swab tests that we have performed on the Devonian by itself right now, and I imagine within a one or two-week period after we do it, that it will be stabilized and the production ought to be more or less constant.

Q So, these percentages which you gave, I believe, 7 percent Devonian, 19 percent Blinbry, 14 percent Drinkard and 60 percent Fusselman?

A Yes, sir.

Q These are based on the swab tests, but if the actual percentages would vary from that, I presume you would advise the Commission, say, after 90 days?

A Yes, sir, we would.

Q So that it could be adjusted?

A Right. We would handle it like we handle all of our downhole commingling at the present time.

Now, the allocation, the previous allocation on the three zones that were downhole commingled back in October of last year for the Blinbry was 20 percent, compared to 19 percent that we are recommending. For the Tubb-Drinkard it was 16 percent which is compared to 14 percent, and 64 percent for the Fusselman compared to 60 percent. So, what it amounts to, we are reallocating the production based on an increase of five barrels for the Devonian Zone.

MR. STAMETS: Any other questions of this witness?  
He may be excused.

(Witness dismissed.)

MR. STAMETS: Is there anything further in this case?

We will take the case under advisement.

STATE OF NEW MEXICO )  
 ) SS.  
COUNTY OF SANTA FE )

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

*Richard L. Nye*  
COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5514 heard by me on 7-2, 1955.  
*Richard L. Nye*, Examiner  
New Mexico Oil Conservation Commission

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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. 5514  
Order No. R-5059

APPLICATION OF TEXACO INC. FOR  
DOWNHOLE COMMINGLING, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 2, 1975, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 15th day of July, 1975, 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., is the owner and operator of the G. L. Erwin "B" Federal Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, NMPM, Justis Field, Lea County, New Mexico.

(3) That by Commission Order No. R-4869, the applicant was authorized to complete said G. L. Erwin B Federal Well No. 4 as a multiple completion, (tubingless) and to commingle certain production therefrom in the wellbore as follows:

Production from the North Justis-Devonian Pool to be through a single string of 2 7/8-inch casing cemented in the wellbore; commingled production of oil from the Justis-Blaine, Justis Tubb-Drinkard, and North Justis-Fusselman Pools to be produced through a single string of 2 7/8-inch casing cemented in the wellbore; and all or a portion of the commingled gas production from said three zones shall be produced from a string of 2 3/8-inch casing cemented in the wellbore.

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Case No. 5514  
Order No. R-5059

(4) That the applicant now seeks authority to commingle Devonian production with the other commingled production within the wellbore of the above-described well.

(5) That from the Devonian zone, the subject well is capable of low marginal production only.

(6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(8) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 19 percent of the commingled production should be allocated to the Blinebry zone, 14 percent of the commingled production to the Tubb-Drinkard zone, 7 percent of the commingled production to the Devonian zone, and 60 percent of the commingled production should be allocated to the Fusselman zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its G. L. Erwin B Federal Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a multiple completion, (tubingless) and to commingle certain production therefrom in the wellbore as follows:

Commingled production of oil from the Justis-Blinebry, Justis Tubb-Drinkard, North Justis-Devonian, and North Justis-Fusselman Pools shall be produced through a single string of 2 7/8-inch casing cemented in the wellbore; and all or a portion of the commingled gas production from said four zones shall be produced from a string of 2 3/8-inch casing cemented in the wellbore.



-3-

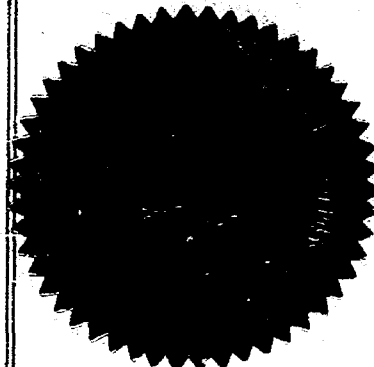
Case No. 5514  
Order No. R-5059

(2) That 19 percent of the commingled production shall be allocated to the Blinebry zone, 14 percent of the commingled production shall be allocated to the Tubb-Drinkard zone, that 7 percent of the commingled production shall be allocated to the Devonian zone, and that 60 percent of the commingled production shall be allocated to the Fusselman zone.

(3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

(4) 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

*Phil R. Lucero*  
PHIL R. LUCERO, Member

*Joe D. Ramey*  
JOE D. RAMEY, Member & Secretary

S E A L

dr/

**OIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

July 15, 1975

Mr. J. V. Gannon  
District Superintendent  
Texaco Inc.  
Drawer 728  
Hobbs, New Mexico 88240

Re: CASE NO. 5514  
ORDER NO. R-5059

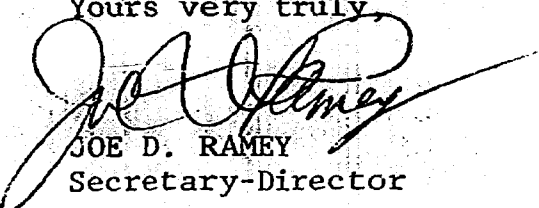
Applicant:

Texaco Inc.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Yours very truly,

  
JOE D. RAMEY  
Secretary-Director

JDR/fd

Copy of order also sent to:

Hobbs OCC       x        
Artesia OCC                       
Aztec OCC                     

Other



PETROLEUM PRODUCTS

June 3, 1975

Case 5514  
TEXACO INC.  
DRAWER 728  
HOBBS, NEW MEXICO 88240

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Request for Examiner Hearing  
Application for Downhole Commingling  
G. L. Erwin "B" Federal (NCT-2) Well No. 4  
Lea County, New Mexico

Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO's application to downhole commingle the Justis (Devonian North) Pool with the presently commingled Justis (Blindery, Tubb-Drinkard and Fusselman North) Pools in the G. L. Erwin "B" Federal (NCT-2) Well No. 4 located in Unit 0 of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

The USGS and all offset operators have been notified of this application.

Your cooperation in this matter will be appreciated.

Yours very truly,

*J. V. Gannon*  
J. V. GANNON  
District Superintendent

JBS/kw  
MAS, Jr.  
NMOCC-Hobbs  
USGS-Hobbs  
Offset Operators  
JSR-Midland

DOCKET MAILED

Date 6/18/75

Case 5514

DATA SHEET FOR WELLBORE COMMINGLING

Operator: WAXACO Inc.

Address: P. O. Box 728, Hobbs, New Mexico 58240

Lease and Well No.: G. L. Erwin "J" Federal (NCT-2) Well No. 4

Location: 330' PBL & 650' PBL of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico

WELL DATA

	Pool	Pool	Pool	Pool
Name of Pool	Justis Blinberry	Justis Tubb-Drinkard	Justis H. Devonian	Justis H. Fusselman
Producing Method	Pump	Pump	Flow	Pump
BHP	766	800	732	1000
Type Crude	Sweet	Sweet	Sweet	Sweet
Gravity	37.4	37.4	37.4	37.4
GOR Limit	6000	6000	2000	2000
Completion Interval	5036'-5616'	5993'-6082'	6924'-7050'	7137'-7146'
Current Test Date	4-25-75	4-26-75	4-27-75	4-28-75
Oil	14	11	0.5	45
Water	26	26	0.7	95
GOR	2317	2319	6667	2315
Selling Price of Crude - \$/BBL.	5.73	5.78	5.78	5.78
Daily Income - \$/Day zones are surface commingled	80.92	63.53	2.89	260.10

COMMINGLED DATA:

Gravity of Commingled Crude 37.4

Selling Price of Commingled Crude - \$/BBL. 5.73

Daily Income - \$/Day 407.49

Net (Gain) ~~(Loss)~~ from Wellbore Commingling - \$/Day 28.90 (Production increase of 5 BOPD) based on current producing rates.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator TEXACO Inc.		Pool See Below		County Lea											
Address P. O. Box 728, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>	Completion <input type="checkbox"/>	Spectol <input checked="" type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU. FT./BBL
		U	S	T	R						WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
G. L. Erwin "B" Fed (NCT-2)	4 -	0	35	248	37E										
<u>Justis Blinebry</u>						4-25-75	P		11	24	26	37.4	14	32.4	2317
<u>Justis Tubb-Drinkard</u>						4-26-75	P		9	24	26	37.4	11	25.5	2319
<u>Justis North Devonian</u>						4-27-75	F	3/4	350	48	24	0.7	37.4	0.5	3.3
<u>Justis North Fusselman</u>						4-28-75	P		97	24	95	37.4	45	104.5	2315

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° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

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 hereby certify that the above information is true and complete to the best of my knowledge and belief.

*J. M. Blinebry*  
(Signature)  
Assistant District Superintendent

(Title)  
May 5, 1975  
(Date)

Case 5514

(1) (1) *Case 5514*  
OFFSET OPERATORS

Gulf Oil Corporation - U.S.  
900 W. Turner  
Hobbs, New Mexico 88240

Westates Petroleum Company  
728 Capital National Bank Bldg.  
Houston, Texas 77002

National Cooperative Refinery Associates  
915 Wilco Building  
Midland, Texas 79701

Amerada Hess Corporation  
P. O. Box 591  
Midland, Texas 79701

Shell Oil Company  
P. O. Box 1509  
Midland, Texas 79701

Casing cemented with 1924 sacks.  
Cement top at 1800'.

DEVONIAN

FUSSELMAN

BLINEBRY

TUBB-DRINKARD

13-3/8" csg. set at 255'. Cmt. with 350 sacks. Cmt. circulated.

2-3/8" csg. set at 6205'.

10-3/4" & 9-5/8" csg. set at 3469'. Cmt. with 1050 sacks. Cement top at 1875'.

2-7/8" csg. set at 7103'.

2-3/8" csg. set at 7459'.

2-7/8" csg. set at 7459'.

BLINEBRY

Perf:  
5036'-5616'

TUBB-DRINKARD

Perf:  
5990'-6082'

NORTH DEVONIAN

Perf:  
6924'-7050'

NORTH FUSSELMAN

Perf:  
7137'-7146'

Total Depth 7459'

Present Completion

G.L. ERWIN "B" FEDERAL (NCT-2) NO. 4  
JUSTIS (BLINEBRY, TUBB-DRINKARD, DEVONIAN NORTH  
AND FUSSELMAN NORTH) POOLS  
LEA COUNTY, NEW MEXICO

Casing cemented with 1924 sacks.  
Cement top at 1800'.

2-3/8" csg. set at 6205'.

2-7/8" csg. set at 7103'.

DEVONIAN

BLINEBRY

FUSSELMAN

TUBB-DRINKARD

13-3/8" csg. set at 255'. Cmt. with 350 sacks. Cmt. circulated.

10-3/4" & 9-5/8" csg. set at 3459'. Cmt. with 1050 sacks. Cement top at 1875'.

2-3/8" csg. set at 7459'.

2-7/8" csg. set at 7459'.

BLINEBRY

Perf:  
5036'-5616'

TUBB-DRINKARD

Perf:  
5990'-6082'

NORTH DEVONIAN

Perf:  
6924'-7050'

NORTH FUSSELMAN

Perf:  
7137'-7146'

Total Depth 7459'

Proposed Completion

G.L. ERWIN "B" FEDERAL (NCT-2) NO. 4  
JUSTIS (BLINEBRY, TUBB-DRINKARD, DEVONIAN NORTH  
AND FUSSELMAN NORTH) POOLS  
LEA COUNTY, NEW MEXICO





# COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393 3813

3713 W. MARLAND ST

P. O. BOX 1829

HOBBS, NEW MEXICO 88240

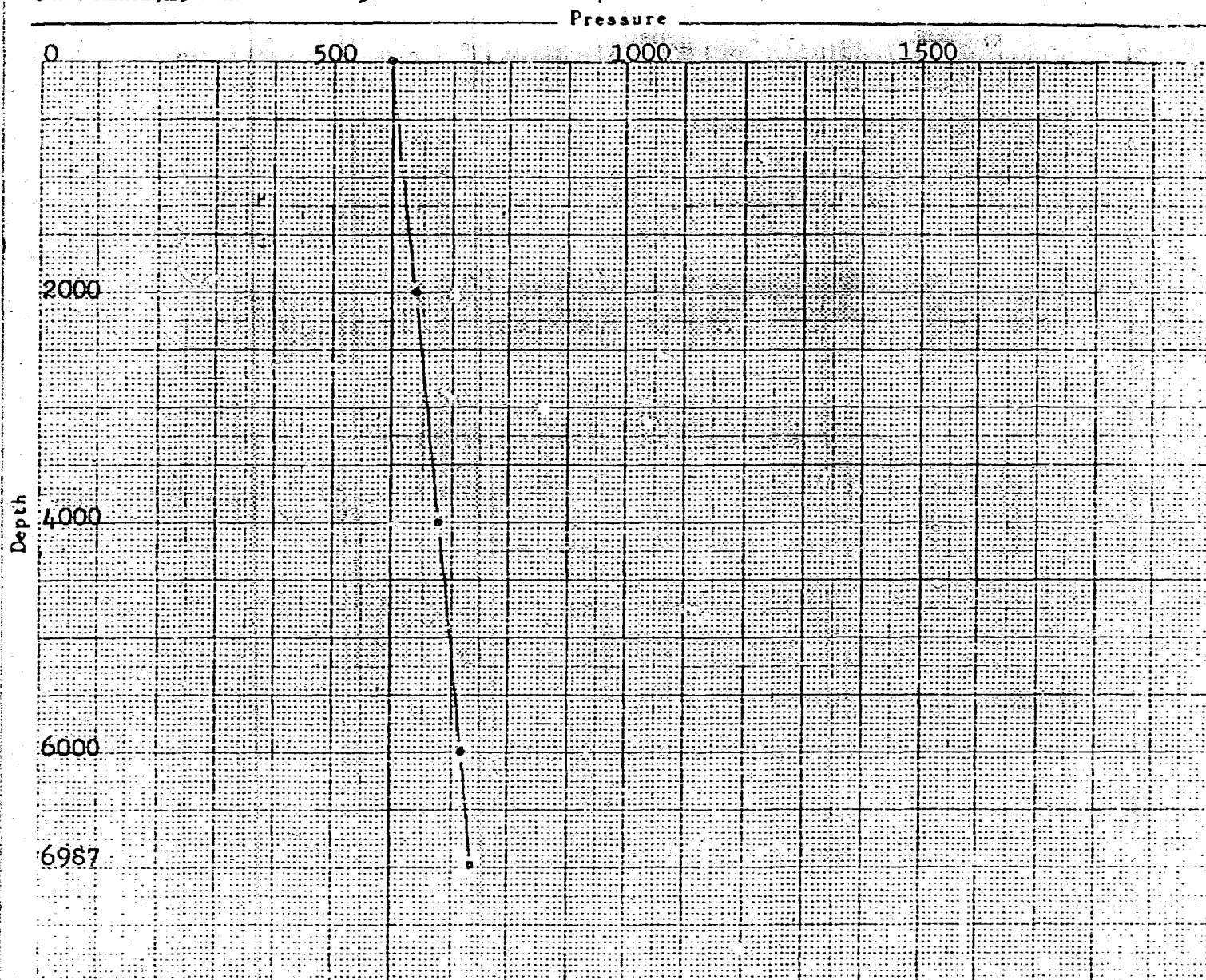
Case 5514

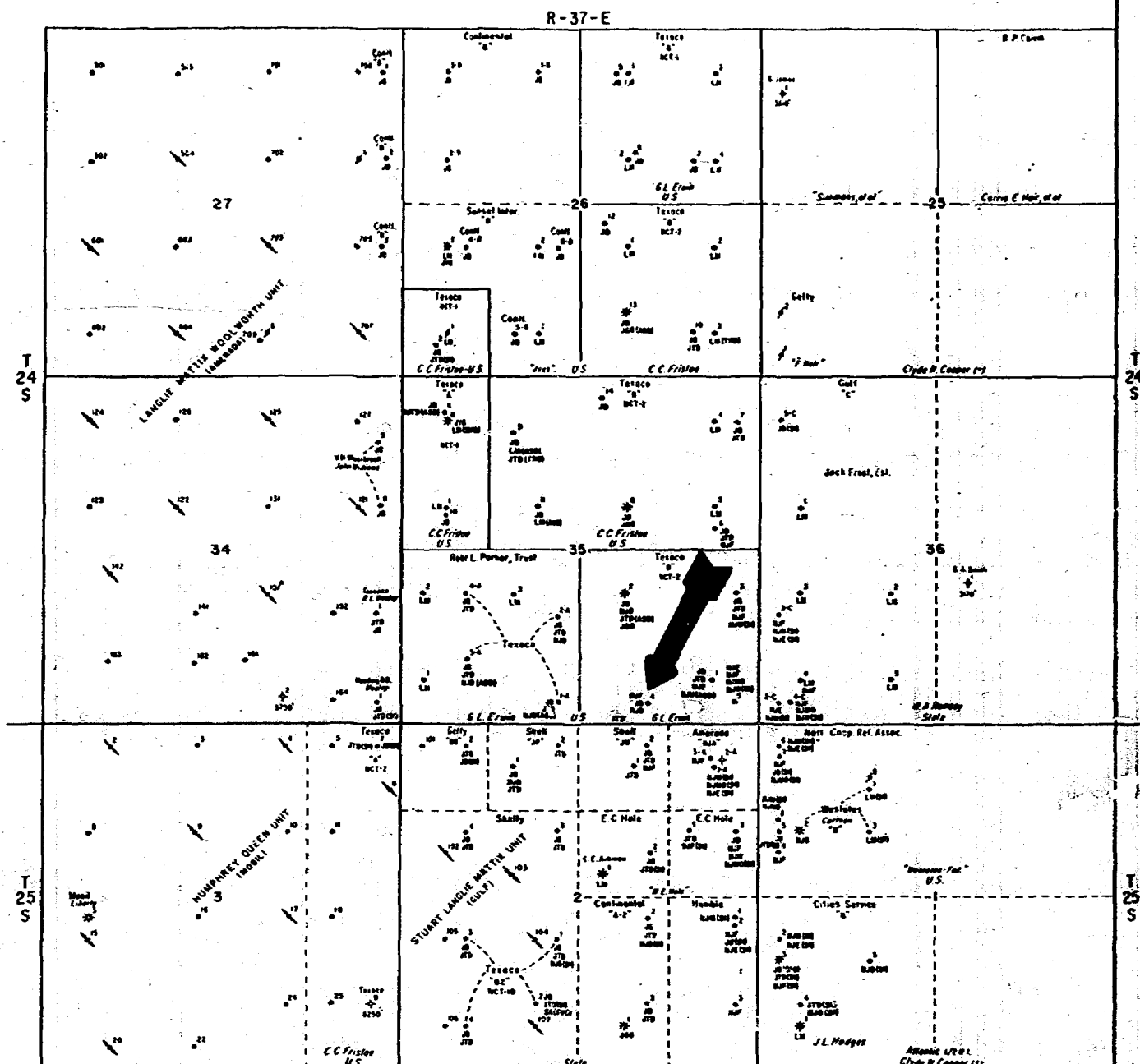
## BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco, Inc.  
FIELD North Justis FORMATION Devonian  
LEASE G. L. Erwin B NCP-2 WELL No. 4  
COUNTY Lea STATE New Mexico  
DATE 4-12-75 TIME 12:00 N  
Status Shut in Test depth 6987'  
Time S. I. 24.0 Hrs Last test date 8-1-74  
Tub Pres 600 BHP last test 1555  
Cas. Pres Quad BHP change 823# Loss  
Elev 3181 DF Fluid top None  
Datum (-3806)\*\* Water top None  
Temp @ 102 F Run by Peacock  
Cal. No. A2419N Chart No. 3

Depth	Pressure	Gradient
0	600	-
2000	637	.019
4000	675	.019
6000	713	.019
6987(-3806)	732**	.019

\*\* MidPoint of Casing Perforations





**R-37-E**

POOL INDEX		LEGEND	
JTG	JULIUS YATES GAS	NUE	NORTH JUSTIS
JUG	JUSTIS BLMERY	NUE	ELLENBURGER
JUG	JUSTIS GLORETA GAS	NUE	FUSSELLMAN
JTD	JUSTIS TUBB-ORNDORF	NUE	MCREE
LW	LANGLE BATTIE 7 RIVERS	NUE	MONTOTA
NJB	NORTH JUSTIS BLMERY	NUE	TUBB-ORNDORF
NJD	DEYCHMAN	NUE	WADDELL

(ABO)	ABANDONED
(ASD)	ABANDONED-SALVAGE DEFERRED
(SH)	SHUT IN
(SWD)	SALT WATER DISPOSAL
(TA)	TEMPORARILY ABANDONED
(TRY)	TO BE RECONDITIONED FOR OIL

TEXACO Inc.  
JUSTIS & LANGLIE MATTIX POOLS  
LEA COUNTY, NEW MEXICO

SCALE: 0' 1000' 2000'

1000

# TEXACO INC. MIDLAND DIVISION

Performance Curve

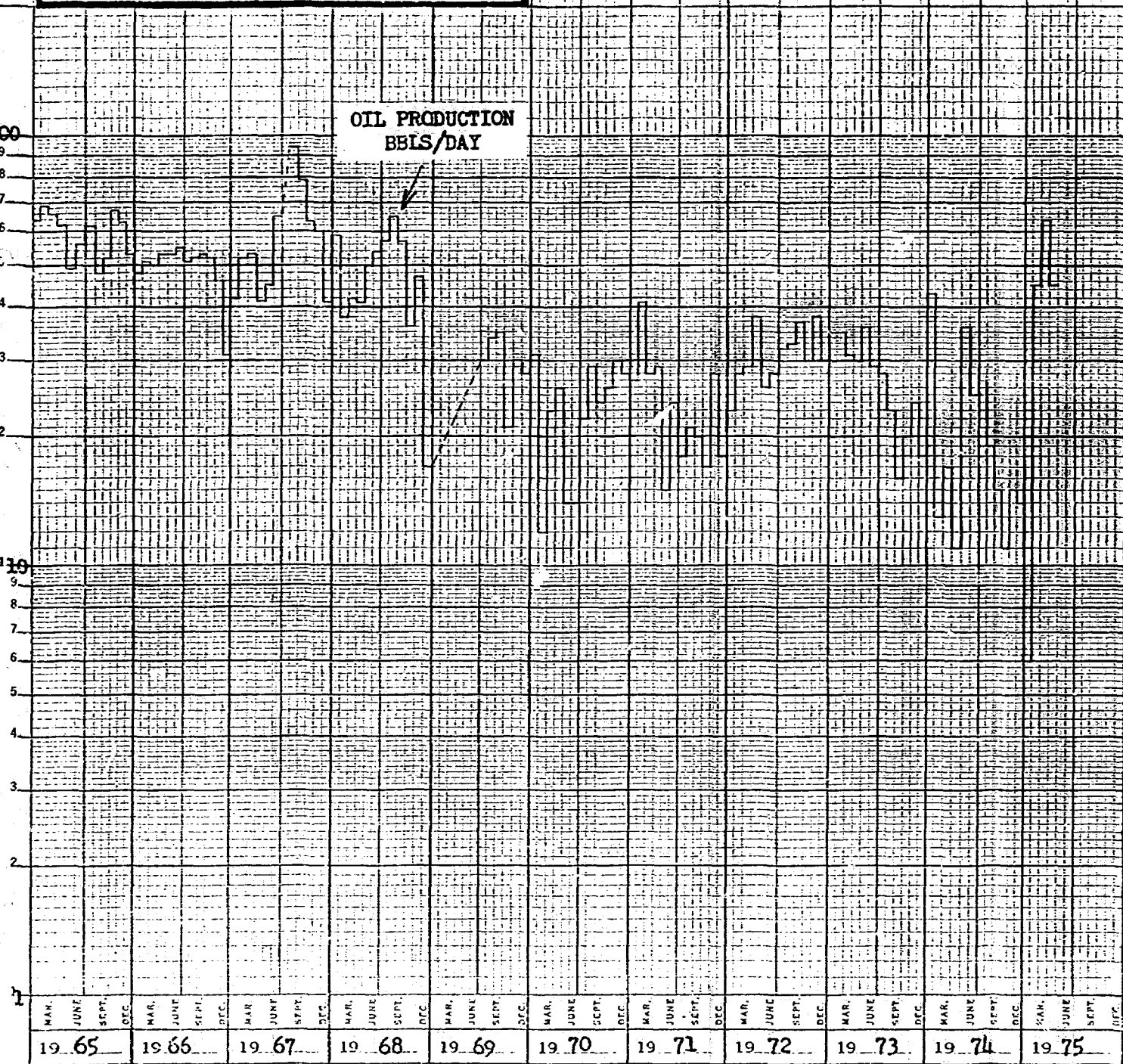
TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 4  
JUSTIS FUSSELMAN NORTH POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

100

OIL PRODUCTION  
BBL/DAY

110



MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.												
19 65				19 66				19 67				19 68				19 69				19 70				19 71				19 72				19 73				19 74				19 75			

1000

# TEXACO INC. MIDLAND DIVISION

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 1  
JUSTIS BLINEBRY POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

100

OIL PRODUCTION  
BBL/DAY

10

1

MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.												
19 65				19 66				19 67				19 68				19 69				19 70				19 71				19 72				19 73				19 74				19 75			

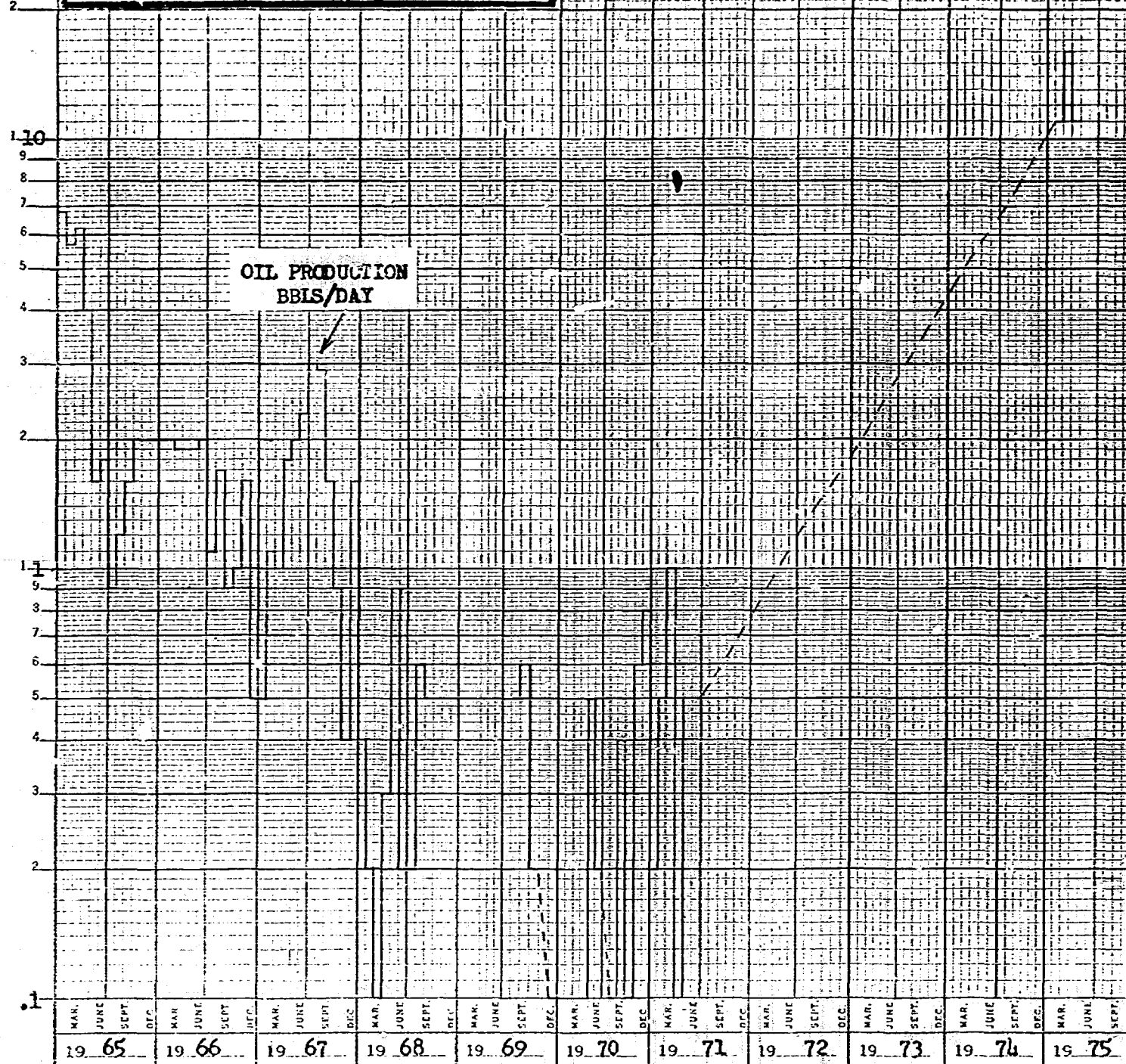


**TEXACO INC.**  
**MIDLAND DIVISION**

### Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 4  
JUSTIS TUBB DRINKARD POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75



100  
90  
80  
70  
60  
50  
40  
30  
20

# TEXACO INC. MIDLAND DIVISION

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 4  
JUSTIS DEVONIAN NORTH POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

10  
9  
8  
7  
6  
5  
4  
3  
2  
1

OIL PRODUCTION  
BBL/DAY

MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.	MAR.	JUNE	SEPT.	DEC.												
19 65				19 66				19 67				19 68				19 69				19 70				19 71				19 72				19 73				19 74				19 75			

## DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

Address: P. O. Box 723, Hobbs, New Mexico 88240

Lease and Well No.: G. L. Lewis "J" Federal (ACT-2) Well No. 4

Location: 330' FSL &amp; 650' FSL of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico

## WELL DATA

	Pool	Pool	Pool	Pool
Name of Pool	Justis Blindery	Justis Tubb-Drinkard	Justis H. Devonian	Justis H. Fusselman
Producing Method	Pump	Pump	Flow	Pump
BHP	766	800	732	1000
Type Crude	Sweet	Sweet	Sweet	Sweet
Gravity	37.4	37.4	37.4	37.4
GOR Limit	6000	6000	2000	2000
Completion Interval	5036'-5616'	5990'-6082'	6924'-7050'	7137'-7146'
Current Test Date	4-25-75	4-26-75	4-27-75	4-28-75
Oil	14	11	0.5	45
Water	26	26	0.7	95
GOR	2317	2319	6667	2315
Selling Price of Crude - \$/BBL.	5.78	5.78	5.78	5.78
Daily Income - \$/Day zones are surface commingled	80.92	63.53	2.89	260.10

## COMMINGLED DATA:

Gravity of Commingled Crude 37.4

Selling Price of Commingled Crude - \$/BBL. 5.78

Daily Income - \$/Day 407.49

Net (Gain) ~~(Loss)~~ from Wellbore Commingling - \$/Day 28.90 (Production increase of 5 BOPD) based on current producing rates.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator <b>TEXACO Inc.</b>		Pool <b>See Below</b>		County <b>Lea</b>	
Address <b>P. O. Box 728, Hobbs, New Mexico 88240</b>				TYPE OF TEST - (X) <input checked="" type="checkbox"/>	Scheduled <input type="checkbox"/>
				Completion <input type="checkbox"/>	Special <input checked="" type="checkbox"/>

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TUBING SIZE	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU. FT./BBL.
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
G. L. Erwin "B" Fed (NCT-2)	4 -	0	35	243	37E											
<u>Justis Blinebry</u>						4-25-75	P			11	24	26	37.4	14	32.4	2317
<u>Justis Tubb-Drinkard</u>						4-26-75	P			9	24	26	37.4	11	25.5	2319
<u>Justis North Devonian</u>						4-27-75	P	3/4	350	48	24	0.7	37.4	0.5	3.3	6667
<u>Justis North Fusselman</u>						4-28-75	P			97	24	95	37.4	45	104.5	2315

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

During gas allowable 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° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

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 hereby certify that the above information is true and complete to the best of my knowledge and belief.

*[Signature]*  
(Signature)  
Assistant District Superintendent

(Title)  
May 5, 1975

(Date)

Cur 5514



OFFSET OPERATORS

Gulf Oil Corporation - U.S.  
900 H. Turner  
Hobbs, New Mexico 88240

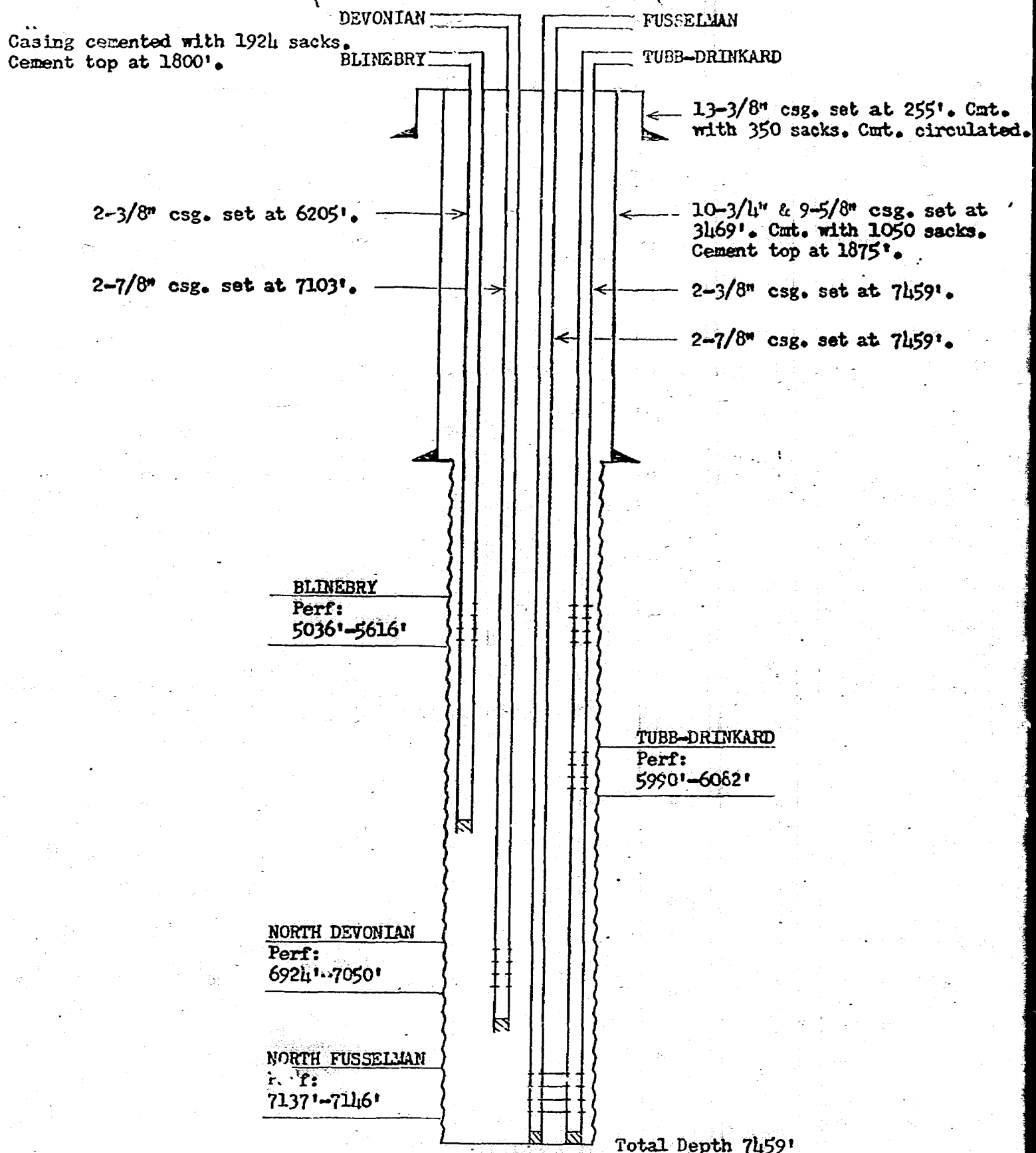
Westates Petroleum Company  
728 Capital National Bank Bldg.  
Houston, Texas 77002

National Cooperative Refinery Associates  
915 Wilco Building  
Midland, Texas 79701

Amerada Hess Corporation  
P. O. Box 591  
Midland, Texas 79701

Shell Oil Company  
P. O. Box 1509  
Midland, Texas 79701

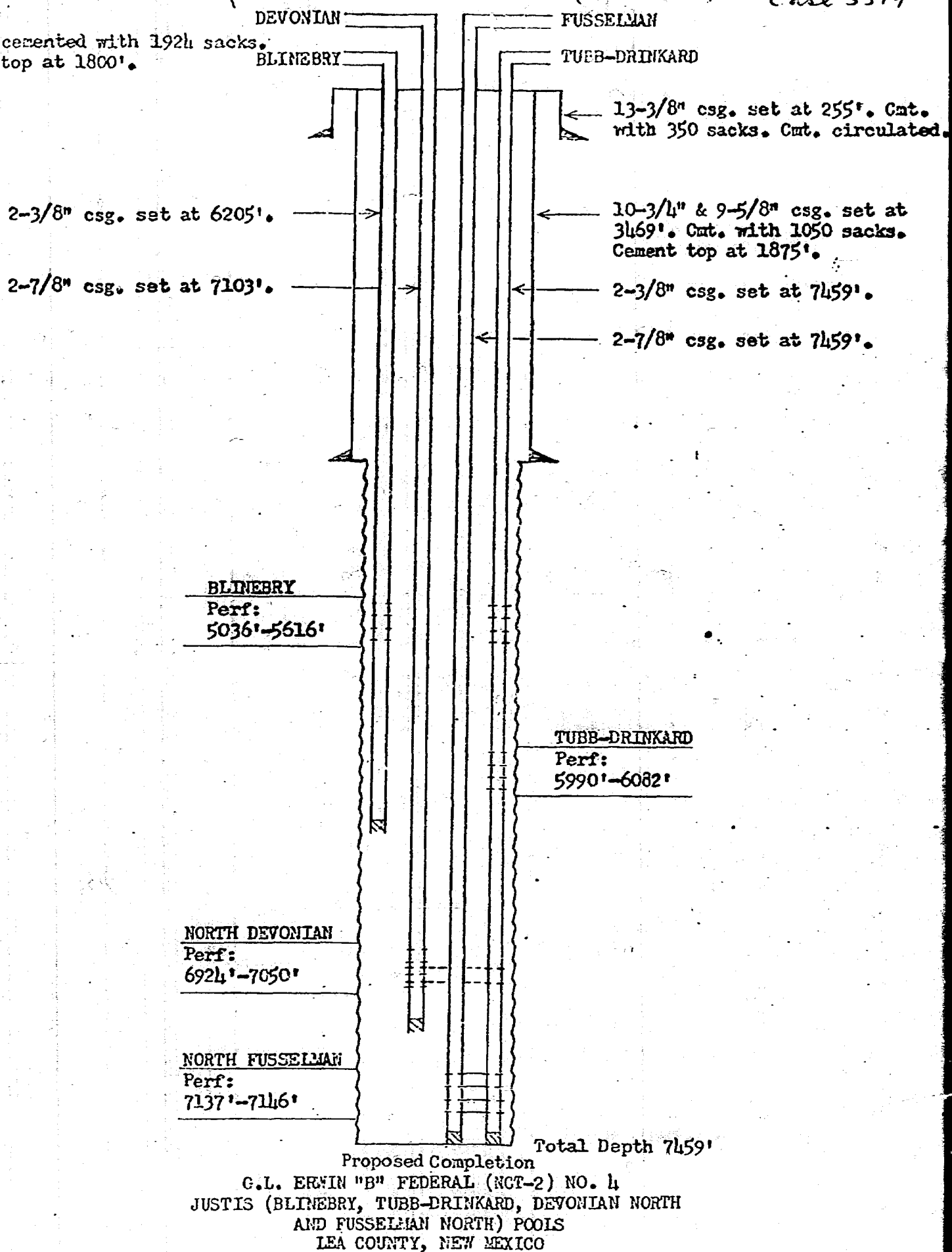
Casing cemented with 1924 sacks.  
Cement top at 1800'.



Present Completion

G.L. ERWIN "B" FEDERAL (NCT-2) NO. 4  
JUSTIS (BLINEBRY, TUBB-DRINKARD, DEVONIAN NORTH  
AND FUSSELMAN NORTH) POOLS  
LEA COUNTY, NEW MEXICO

Casing cemented with 192h sacks.  
Cement top at 1800'.





# COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393 3213

3713 W. MARLAND ST

P. O. BOX 1829

MOBBS, NEW MEXICO 89240

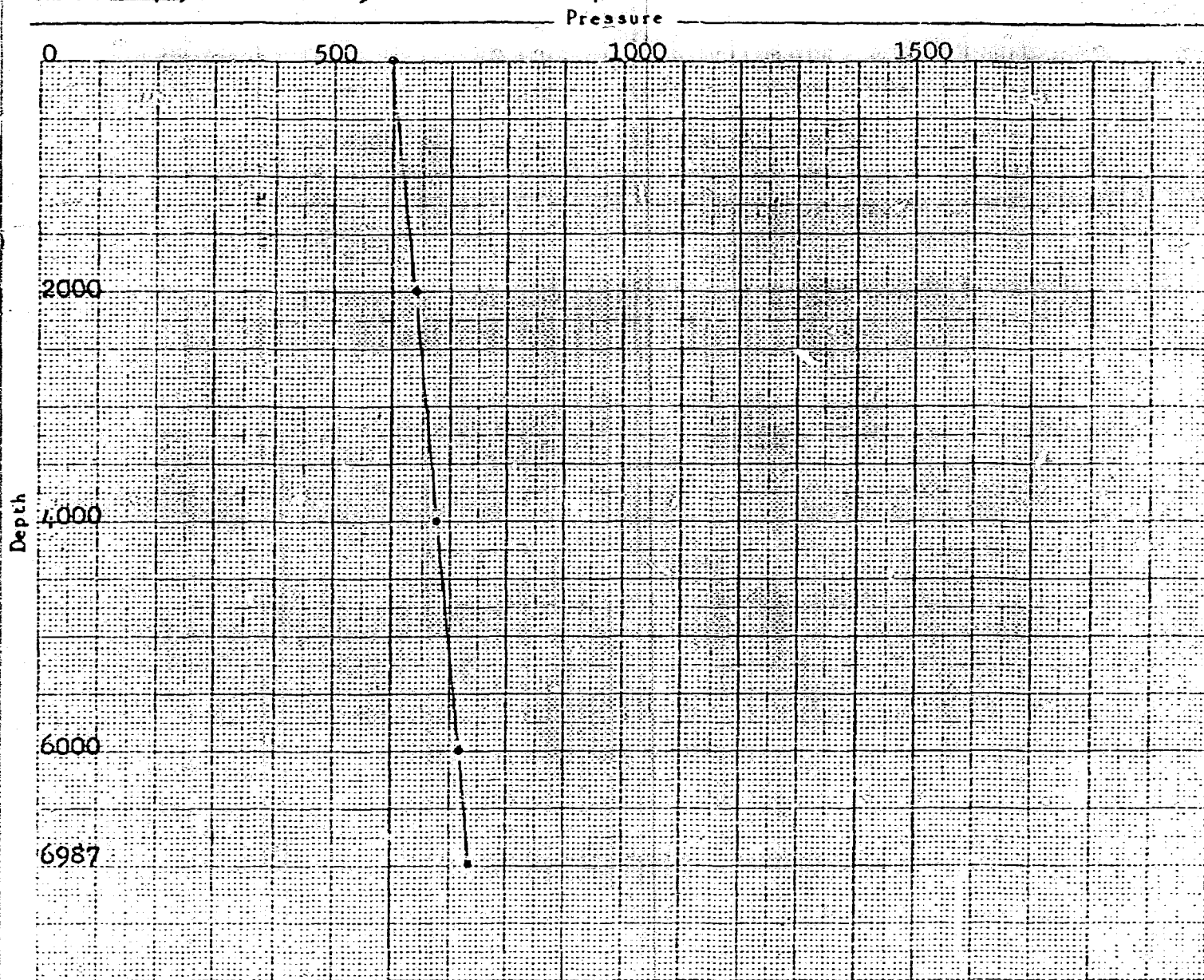
Case 5514

## BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco, Inc.  
FIELD North Justis FORMATION Devonian  
LEASE G. L. Erwin B. NCI-2 Well No. 4  
COUNTY Lea STATE New Mexico  
DATE 4-12-75 TIME 12:00 N  
Status Shut in Test depth 6987'  
Time S. I. 24.0 Hrs Last test date 8-1-74  
Tub Pres 600 BHP last test 1555  
Cas. Pres Quad BHP change 823# Loss  
Elev. 3181 DF Fluid top None  
Datum (-3806)\*\* Water top None  
Temp. @ 102°F Run by Peacock  
Cal. No. A2419N Chart No. 3

Depth	Pressure	Gradient
0	600	-
2000	637	.019
4000	675	.019
6000	713	.019
6987(-3806)	732**	.019

\*\* MidPoint of Casing Perforations



**POOL INDEX**

NJE	NORTH JUSTIS	ELLENBURGER
NJF	"	FUSSELLMAN
NJM	"	McKEE
NJNO	"	MONTOTA
NJTD	"	TUBB-DRAKARD
NJW	"	WADDELL

**LEGEND**

**LEGEND**

(ABO) ABANDONED  
(ASD) ABANDONED-SALVAGE DEFERRED  
(SI) SHUT IN  
(SWD) SALT WATER DISPOSAL  
(TA) TEMPORARILY ABANDONED  
(TRO) TO BE RECONDITIONED FOR OIL

TEXACO Inc.  
JUSTIS & LANGLIE MATTIX POOLS  
LEA COUNTY, NEW MEXICO

SCALE: 0' 1000' 2000'

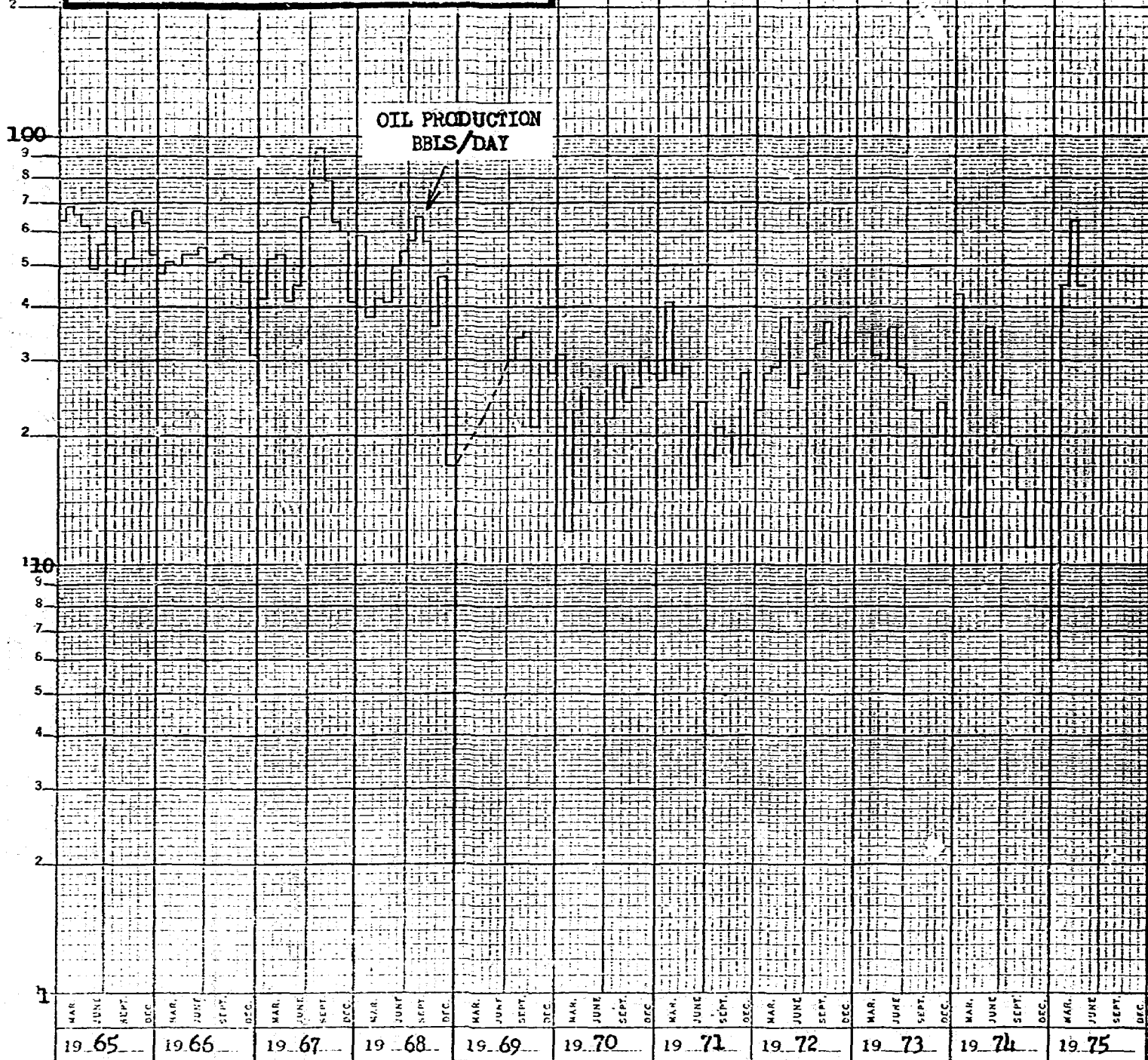
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# TEXACO INC. MIDLAND DIVISION

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 1  
JUSTIS FUSSELMAN NORTH POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JES DATE: 5-30-75





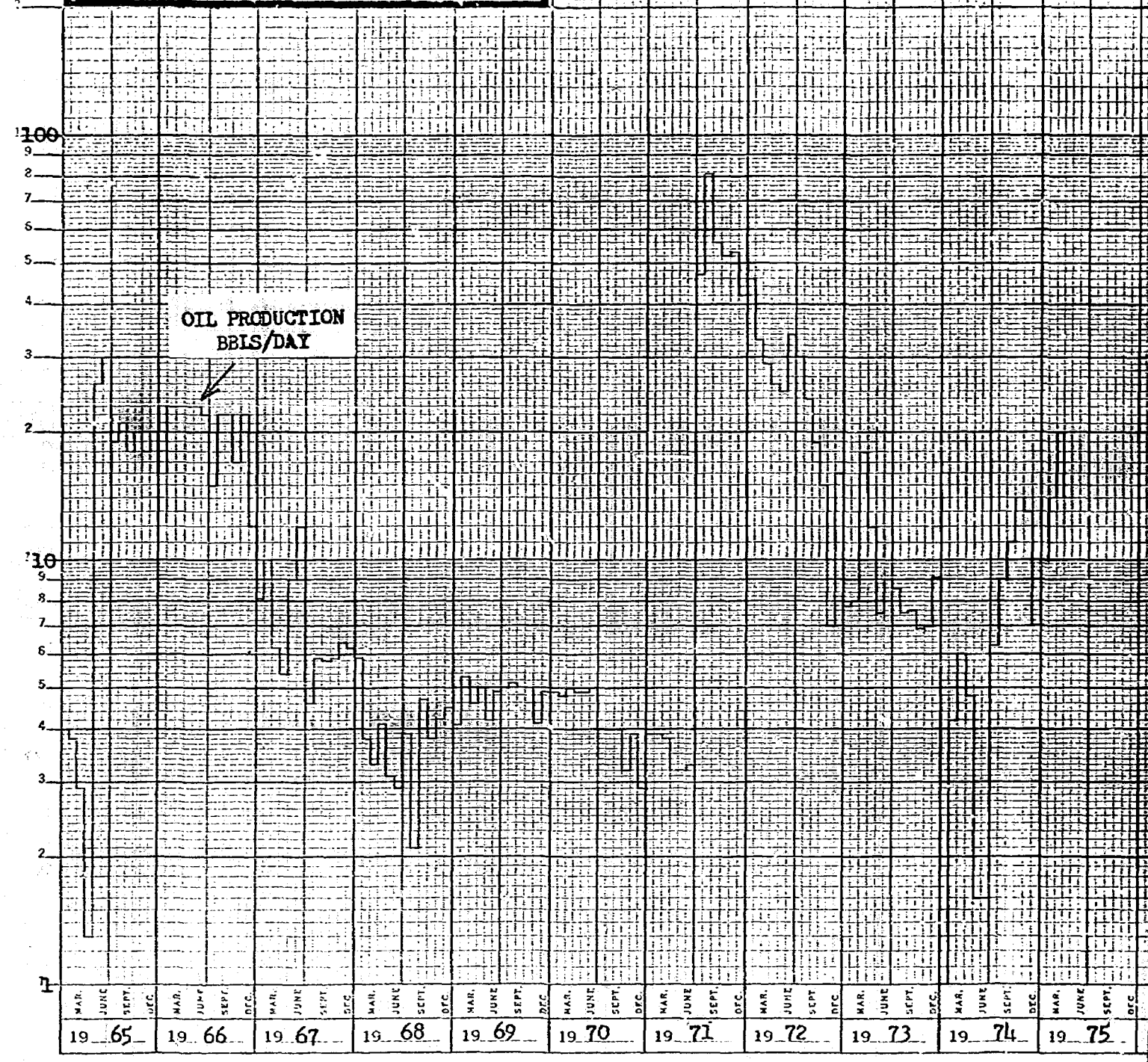
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# TEXACO INC. MIDLAND DIVISION

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 1  
JUSTIS BLINEBRY POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

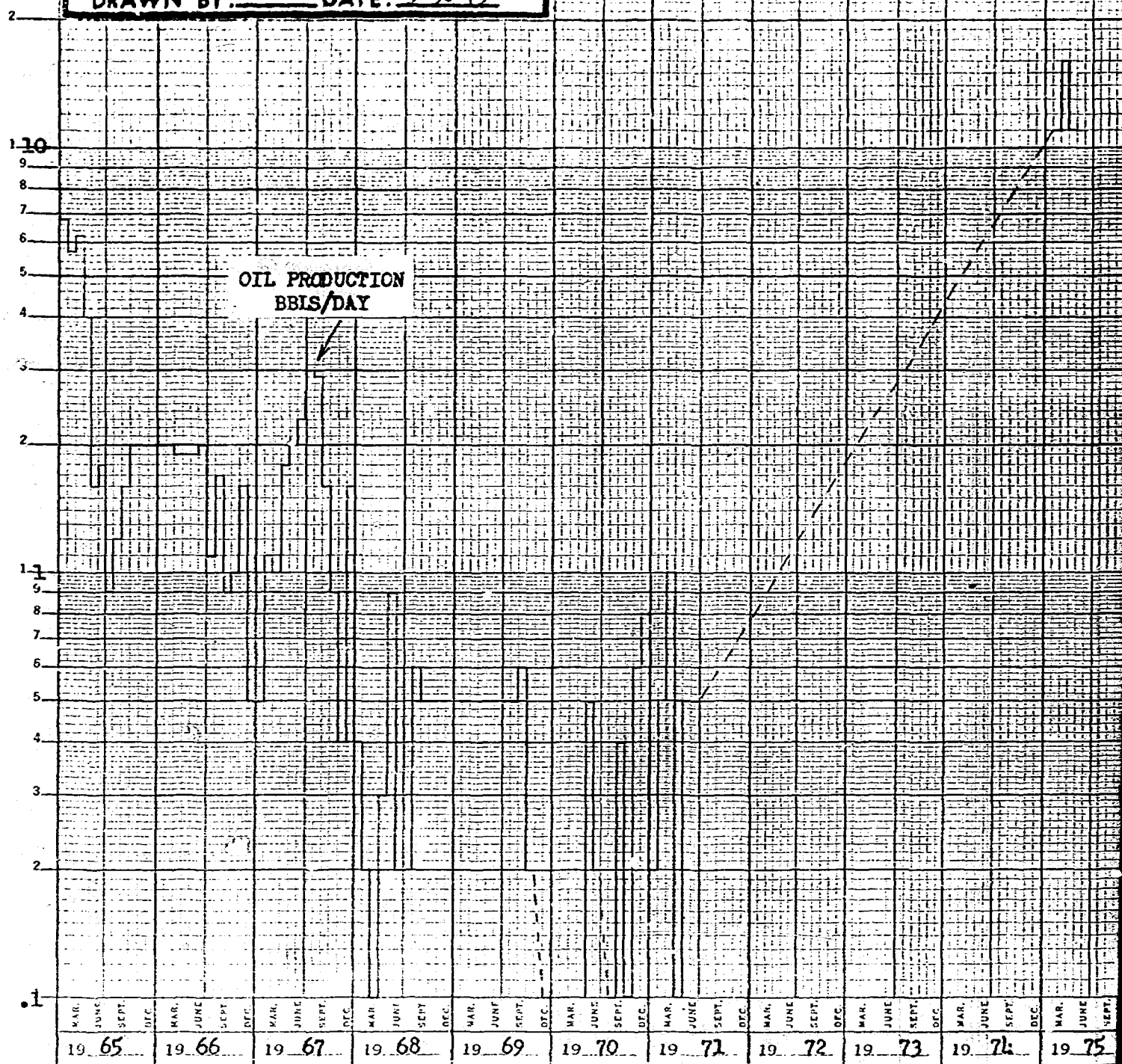


**TEXACO INC.**  
**MIDLAND DIVISION**

### Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 4  
JUSTIS TUBB DRINKARD POOL  
LEA COUNTY, NEW MEXICO

**DRAWN BY:** JBS **DATE:** 5-30-75



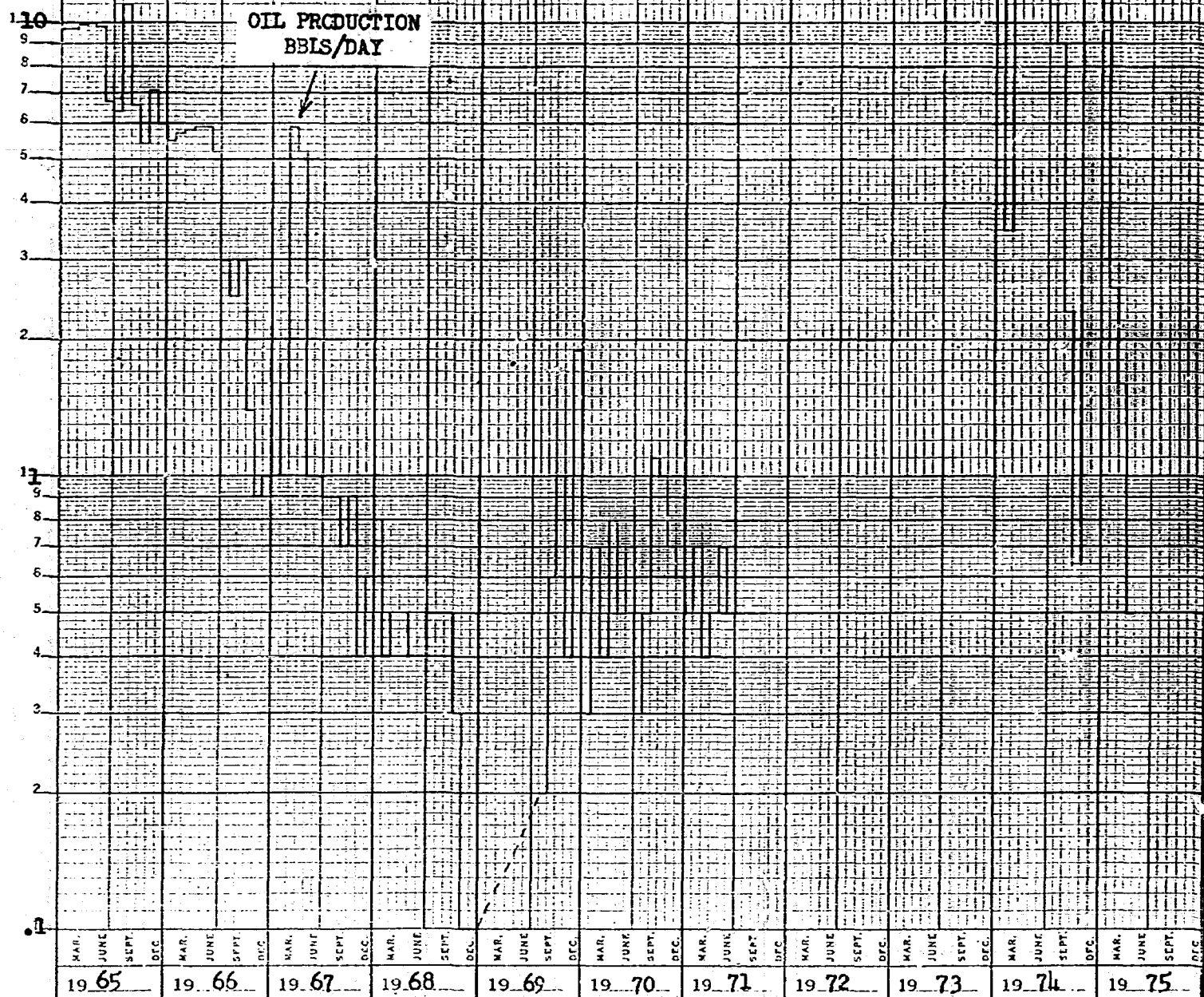


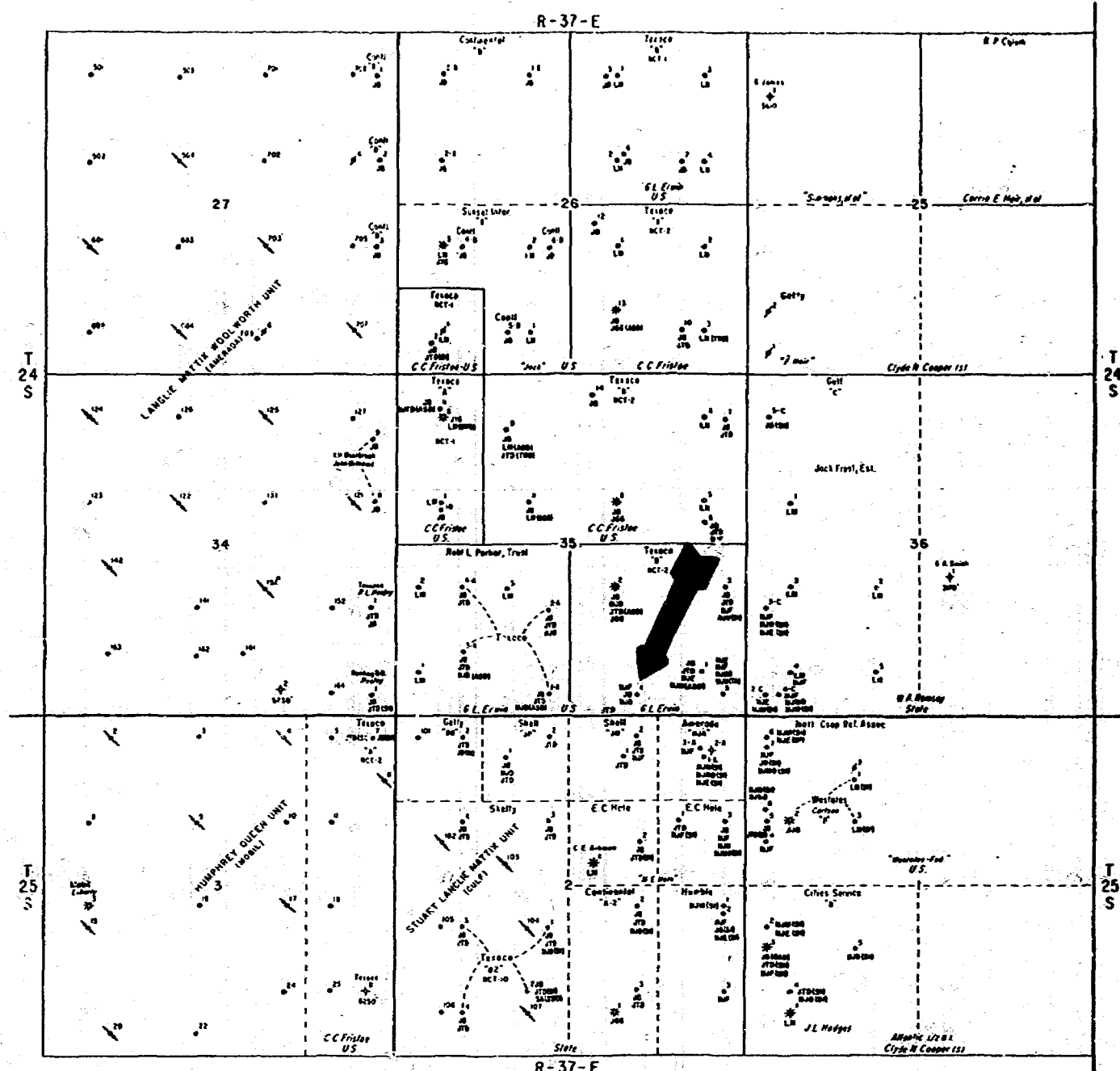
**TEXACO INC.**  
**MIDLAND DIVISION**

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 1  
JUSTIS DEVONIAN NORTH POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

OIL PRODUCTION  
BBL/DAY



#### POOL INDEX

JYG JALMAT YATES GAS  
 JJC JUSTIS BLINDBRY  
 JGG JUSTIS GLORETA GAS  
 JTD JUSTIS TUBO-DRINKARD  
 LMB LANGLE MATTIX 7 RIVERS  
 NJB NORTH JUSTIS BLINDBRY  
 NJD NORTH JUSTIS BLINDBRY  
 NJE NORTH JUSTIS ELLENBURGER  
 NJF - - - FUSSELLMAN  
 NJM - - - MCKEE  
 NJMO - - - MONTROYA  
 NJTD - - - TUBO-DRINKARD  
 NJW - - - WADGELL

NJE NORTH JUSTIS ELLENBURGER  
 NJF - - - FUSSELLMAN  
 NJM - - - MCKEE  
 NJMO - - - MONTROYA  
 NJTD - - - TUBO-DRINKARD  
 NJW - - - WADGELL

#### LEGEND

(ABD) ABANDONED  
 (ASD) ABANDONED-SALVAGE DEFERRED  
 (SI) SHUT IN  
 (SWD) SALT WATER DISPOSAL  
 (TA) TEMPORARILY ABANDONED  
 (TRD) TO BE RECONDITIONED FOR OIL

TEXACO Inc.  
 JUSTIS & LANGLE MATTIX POOLS  
 LEA COUNTY, NEW MEXICO

SCALE: 0' 1000' 2000'

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

Address: P. O. Box 728, Hobbs, New Mexico 88240

*R. 4969*

Lease and Well No.: G. L. Devin "J" Federal (ACT-2) Well No. 4

Location: 339' FSL & 650' FSL of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico

WELL DATA

	<u>Pool</u>	<u>Pool</u>	<u>Pool</u>	<u>Pool</u>
Name of Pool	<u>Justis Blinbry</u>	<u>Justis Tubo-Drinkard</u>	<u>Justis H. Devonian</u>	<u>Justis H. Fusselman</u>
Producing Method	<u>Pump</u>	<u>Pump</u>	<u>Flow</u>	<u>Pump</u>
BHP	<u>766</u>	<u>800</u>	<u>732</u>	<u>1000</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>37.4</u>	<u>37.4</u>	<u>37.4</u>	<u>37.4</u>
GOR Limit	<u>6000</u>	<u>6000</u>	<u>2000</u>	<u>2000</u>
Completion Interval	<u>5036'-5616'</u>	<u>5990'-6082'</u>	<u>6924'-7050'</u>	<u>7137'-7146'</u>
Current Test Date	<u>4-25-75</u>	<u>4-26-75</u>	<u>4-27-75</u>	<u>4-28-75</u>
Oil	<u>14</u>	<u>11</u>	<u>0.5</u>	<u>45</u>
Water	<u>26</u>	<u>26</u>	<u>0.7</u>	<u>95</u>
GOR	<u>2317</u>	<u>2319</u>	<u>6667</u>	<u>2315</u>
Selling Price of Crude - \$/BBL.	<u>5.78</u>	<u>5.78</u>	<u>5.78</u>	<u>5.78</u>
Daily Income - \$/Day zones are surface commingled	<u>80.92</u>	<u>63.53</u>	<u>2.89</u>	<u>269.10</u>

COMMINGLED DATA:

Gravity of Commingled Crude 37.4

Selling Price of Commingled Crude - \$/BBL. 5.78

Daily Income - \$/Day 407.49

Net (Gain) ~~(Loss)~~ from Wellbore Commingling - \$/Day 28.90 (Production increase of 5 BOPD) based on current producing rates.

Casing cemented with 1924 sacks.  
Cement top at 1800'.

DEVONIAN

FUSSELMAN

BLINEBRY

TUBB-DRINKARD

13-3/8" csg. set at 255'. Cmt. with 350 sacks. Cmt. circulated.

2-3/8" csg. set at 6205'.

10-3/4" & 9-5/8" csg. set at 3469'. Cmt. with 1050 sacks. Cement top at 1875'.

2-7/8" csg. set at 7103'.

2-3/8" csg. set at 7459'.

2-7/8" csg. set at 7459'.

BLINEBRY

Perf:  
5036'-5616'

TUBB-DRINKARD

Perf:  
5990'-6082'

NORTH DEVONIAN

Perf:  
6924'-7050'

NORTH FUSSELMAN

Perf:  
7137'-7146'

Total Depth 7459'

Present Completion

G.L. ERWIN "B" FEDERAL (NCT-2) NO. 4  
JUSTIS (BLINEBRY, TUBB-DRINKARD, DEVONIAN NORTH  
AND FUSSELMAN NORTH) POOLS  
LEA COUNTY, NEW MEXICO

Casing cemented with 1924 sacks.  
Cement top at 1800'.

2-3/8" csg. set at 6205'.

2-7/8" csg. set at 7103'.

DEVONIAN

BLINEBRY

FUSSELMAN

TUBB-DRINKARD

13-3/8" csg. set at 255'. Cmt. with 350 sacks. Cmt. circulated.

10-3/4" & 9-5/8" csg. set at 3459'. Cmt. with 1050 sacks. Cement top at 1875'.

2-3/8" csg. set at 7459'.

2-7/8" csg. set at 7459'.

BLINEBRY

Perf:  
5036'-5616'

TUBB-DRINKARD

Perf:  
5990'-6082'

NORTH DEVONIAN

Perf:  
6924'-7050'

NORTH FUSSELMAN

Perf:  
7137'-7146'

Total Depth 7459'

Proposed Completion

G.L. ERWIN "B" FEDERAL (NCT-2) NO. 4  
JUSTIS (BLINEBRY, TUBB-DRINKARD, DEVONIAN NORTH  
AND FUSSELMAN NORTH) POOLS  
LEA COUNTY, NEW MEXICO

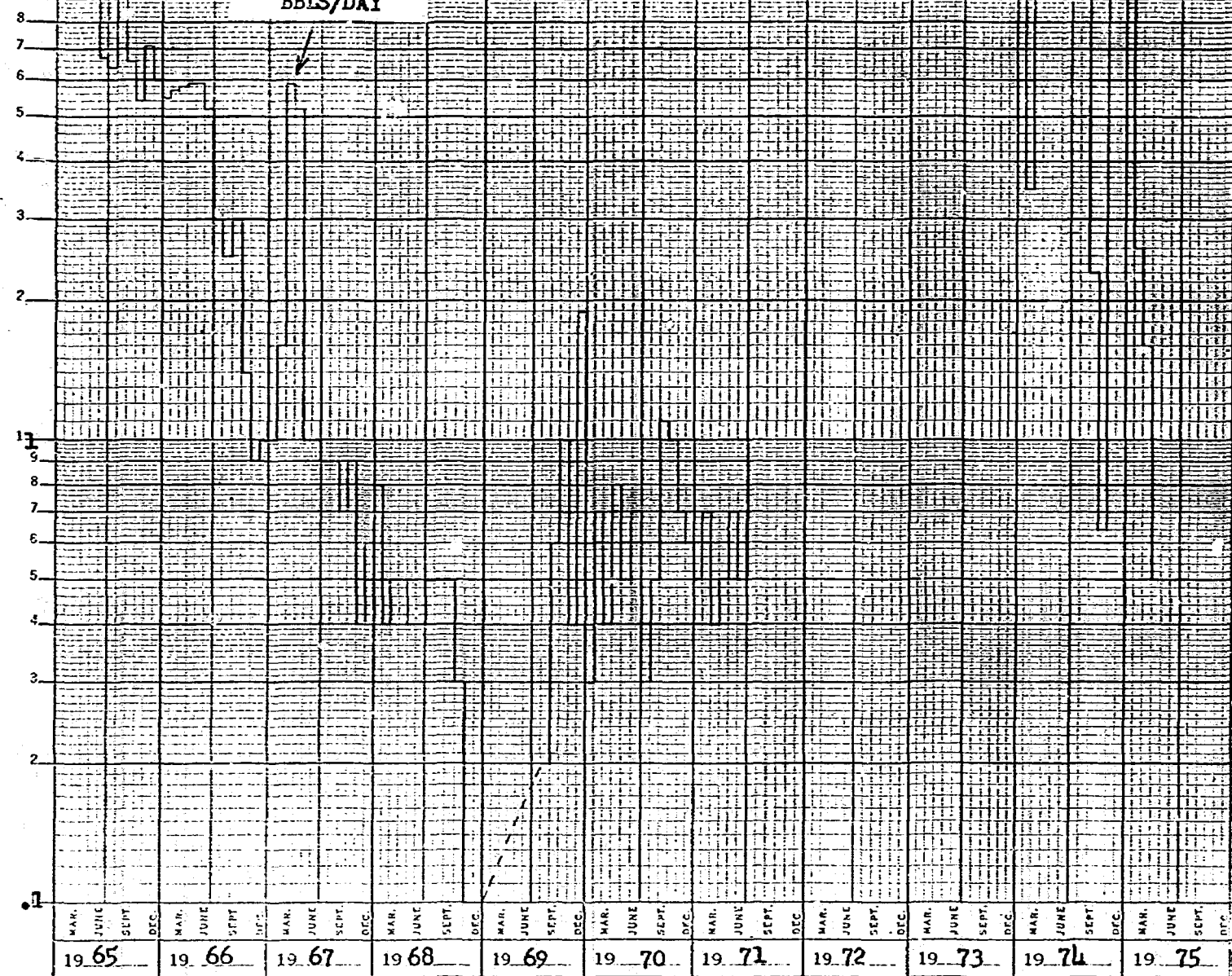
TEXACO INC.  
MIDLAND DIVISION

Performance Curve

TEXACO INC.  
G.L. ERWIN "B" (NCT-2) NO. 1  
JUSTIS DEVONIAN NORTH POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-30-75

OIL PRODUCTION  
BBL/DAY



Dockets Nos. 16-75 and 17-75 are tentatively set for hearing on July 16 and July 30, 1975. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 2, 1975

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

The following cases will be heard before Richard L. Stamets, Examiner, or Joe D. Ramey, Alternate Examiner:

CASE 5501: (Continued from the June 10, 1975, Examiner Hearing)

Application of Hanagan Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 24, Township 21 South, Range 26 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location for said unit. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered will be designation of application as operator of the well and a charge for the risk involved in drilling said well.

CASE 5514: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Tubb-Drinkard, Devonian, and Fusselman production in the wellbore of its G. L. Erwin "B" Federal Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, Justis Field, Lea County, New Mexico.

CASE 5515: Application of Exxon Co., USA for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the quadruple completion of its NM State "S" Well No. 24, located in Unit J of Section 2, Township 22 South, Range 37 East, Lea County, in such a manner as to produce Grayburg and Granite Wash production through parallel strings of 2 7/8-inch casing cemented in a common wellbore and to dually complete the third string of 2 7/8-inch casing in the well in such a manner as to permit Wantz-Abo production through the 1 1/2-inch tubing and Drinkard production through the casing-tubing annulus.

CASE 5516: Application of J. R. Cone for downhole commingling and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry and Drinkard production in the wellbore of his Eubanks Well No. 4, located in Unit N of Section 14, Township 21 South, Range 37 East, Lea County, New Mexico, and for the dual completion of said well in such a manner as to produce the aforesaid commingled production and Abo production through parallel strings of tubing.



dr/

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:

APPLICATION OF TEXACO INC. FOR  
DOWNHOLE COMMINGLING, LEA COUNTY  
NEW MEXICO.

CASE No. 5514

Order No. R-5059

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 2, 1975,  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this        day of July, 1975, 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., is the owner and operator  
of the G. L. Erwin "B" Federal Well No. 4, located in Unit 0 of Section 35  
Township 24 South, Range 37 East, NMPM, Justis Field, Lea County, New  
Mexico.



Case No. 5514  
Order No. R-

(~~3~~) That the applicant <sup>now</sup> seeks authority to commingle Blinebry, ~~Tubb-Drinkard, Devonian, and Fusselman~~ production with ~~the~~ <sup>other commingled production within</sup> the wellbore of the above-described well.

(4) That from the Blinebry zone, the ~~subject well is capable~~ of low marginal production only.

(~~5~~) That from the Tubb-Drinkard zone, the ~~subject well is~~ capable of low marginal production only.

(~~6~~) That from the Devonian zone, the subject well is capable of low marginal production only.

~~(7) That from the Fusselman zone, the subject well is capable of low marginal production only.~~

(~~6~~) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(~~7~~) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(~~8~~) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(~~9~~) That in order to allocate the commingled production to each of the commingled zones in the subject well, 19 percent of the commingled 22 production should be allocated to the Blinebry zone, 14 percent of the commingled 22 production to the Tubb-Drinkard zone, 7 percent of the commingled 22 production to the Devonian zone, and 60 percent of the commingled 22 production should be allocated to the Fusselman zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its G. L. Erwin B Federal ~~(well)~~ Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, as a multiple completion, (tubingless) and to commingle certain production therefrom in the wellbore as follows:

~~Production from the North Justis-Devonian, Pool, shall be through a single string of 2 7/8-inch casing cemented in the wellbore; commingled production of oil from the Justis-Blinebry, Justis Tubb-Drinkard, and North Justis-Fusselman Pools shall be produced through a single string of 2 7/8-inch casing cemented in the wellbore; and all or a portion of the commingled gas production from said ~~these~~ <sup>four</sup> zones shall be produced from a string of 2 3/8-inch casing cemented in the wellbore.~~

(2) That 19 percent of the commingled — production shall be allocated to the Blinebry zone, 14 percent of the commingled — production shall be allocated to the Tubb-Drinkard zone, that 7 percent of the commingled 2 production shall be allocated to the Devonian zone, and that 60 percent of the commingled — production shall be allocated to the Fusselman zone.

(3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

(4) 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.

~~IT IS THEREFORE ORDERED~~

(3) That by Commission Order No. R 4869, was

(1) That the applicant ~~Texas~~ is hereby authorized to complete ~~in~~ G. L. Erwin B Federal (N-28) Well No. 4, located in Unit O of Section 35, Township 24 South, Range 37 East, NMPM, ~~Lea County, New Mexico~~, as a multiple completion, (tubingless) and to commingle certain production therefrom in the wellbore as follows:

Production from the North Justis-Devonian Pool shall be through a single string of 2 7/8-inch casing cemented in the wellbore; commingled production of oil from the Justis-Blinebry, Justis Tubb-Drinkard, and North Justis-Fusselman Pools shall be produced through a single string of 2 7/8-inch casing cemented in the wellbore; and all or a portion of the commingled gas production from said three zones shall be produced from a string of 2 3/8-inch casing cemented in the wellbore.