

CASE 5500: TEXACO INC. FOR DOWNHOLE
COMINGLING, LEA COUNTY, NEW MEXICO

CASE NO.

5500

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 10, 1975

EXAMINER HEARING

IN THE MATTER OF:

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

CASE NO. 5500

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

William F. Carr, Esq.
Legal Counsel for the
Commission
State Land Office Building
Santa Fe, New Mexico 87501

For the Applicant:

W. Booker Kelly, Esq.
WHITE, KOCH, KELLY & MCCARTHY
220 Otero
Santa Fe, New Mexico 87501

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 982-0386

CASE 5500

Page..... 2

I N D E X

PAGE

WAYNE C. PIERCE

Direct Examination by Mr. Kelly

Cross Examination by Mr. Nutter

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8

E X H I B I T S

Applicant's Exhibits Nos. 1 through 7

8

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PIERCE-DIRECT

Page..... 3

MR. NUTTER: Case No. 5500.

MR. CARR: Case No. 5500. Application of Texaco, Inc., for downhole commingling, Lea County, New Mexico.

MR. KELLY: Let the record show the same appearance as in Case 5499 and that the witness is still under oath and has qualified as a petroleum engineer. Is that all right, Mr. Examiner?

MR. NUTTER: The record will so show.

WAYNE C. PIERCE

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

DIRECT EXAMINATION

BY MR. KELLY:

Q Again, referring to the plat, Exhibit No. 1, what does Texaco seek by this Application?

A Texaco seeks approval to commingle in the well-bore oil production from the Justis, Blinebry, Tubb-Drinkard and north Devonian Pools in Well No. 3 and the G. L. Erwin "A" Federal lease located in Unit M of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

Exhibit 1 is a plat showing the location of the subject lease and it is outlined in yellow and the subject well is indicated by the red arrow.

Q Do you have similar downhole completions in this location?

A Not on this same lease. We have one well on our offset lease to the west, our G. L. Erwin B Tract 2 Lease, Well No. 4 in the southwest quadrant was granted approval for downhole commingling the Blinebry and Tubb-Drinkard Zones in March of this year.

Q Now, referring to Exhibit No. 2, would you describe the three zones here?

A The upper zone is the Justis-Blinebry Zone. It is currently being artificially lifted. We estimate the bottomhole pressure at 800 PSI. All three crude types are sweet. Gravity is all compatible. The Blinebry completion interval is from 5224 to 5764 and current tests on this zone is 3 barrels of oil and 11 barrels of water per day. The middle zone is the Justis Tubb-Drinkard and is currently flowing. We have a measured bottomhole pressure of 1027 PSI and is currently completed from 5921 to 6231 and the current test on this zone is 2 barrels of oil per day and 1 barrel of water. The lower zone, which is the Justis North Devonian is currently shut in and has been since June of 1974. The existing completion interval and existing perforation intervals are from 6866 to 7126. This

PIERCE-DIRECT

zone was not open on initial completion. The well was worked over in October of 1971 at which time the well in this interval was opened up and we placed the well on production. It flowed periodically until May of 1974, at which time the well ceased to flow and we shut it in due to its marginal producing status.

Q Did you have any production at all when you shut it in?

A No, sir, it would not produce at that time. We anticipate by downhole commingling the three zones and from BHP and PI, maybe and swab test data, we anticipate a 6-barrel per day production increase from the Devonian Zone. This will result in the recovery of an additional 2000 barrels of reserves and also extend the life of the Devonian by 13 months. We also anticipate a production increase of 5 barrels per day from the Justis-Blinbry Zone and a production increase of 3 barrels per day from the Justis Tubb-Drinkard Zone. These two increases here will be as a result of increasing the efficiencies of our current producing mechanism or being able to vent gas and reduce gas interference through our pumping equipment.

Q You have calculated your net gain at almost \$81 per day, is that correct?

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A That is correct.

Q Exhibit No. 3 is your present completion. Would you explain that briefly?

A The well was drilled to a total depth of 7400 feet. We ran 11 and 3/4-inch surface casing to 314 feet which was cement circulated, 8 and 5/8-inch intermediate casing was set at 3602 feet. This string was also cemented. The cement was also circulated on it. We then ran three strings of 2 and 3/8-inch casing to a total depth and completions were made in the three, and the two zones indicated, the Blinebry and the Tubb-Drinkard, and on October, 1971, the Devonian Zone was perforated as indicated. Currently, the Blinebry Zone is being pumped. The Tubb-Drinkard Zone is flowing and the Devonian Zone is shut in.

Q Now, your proposed completion?

A Again, here the three zones in question are indicated. Communication will be established between all three zones by going into the Blinebry Zone, the Blinebry string shooting across into the Devonian string at a depth of 7000 to 7010 feet. Likewise, we will enter the Tubb-Drinkard string down to a depth of 7000 to 7010 feet and shoot across into the Devonian string. Pumping equipment will then be run into the Devonian string and all three

zones will be produced out of that string.

Q And the other two zones will be for venting purposes?

A That's correct.

Q Now, Exhibits 5, 6 and 7 are the performance curves on the Tubb-Drinkard, Blinebry and Devonian respectively, is that correct?

A That is correct.

Q And they show that all three zones have reached their economic limit?

A A marginal state of production, yes, sir.

Q Based upon your testimony, do you have an allocation formula to recommend to the Commission for your production of these three zones?

A Yes, I do. We recommend an allocation of 42-percent of the production to the Justis-Blinebry Zone, 26-percent to the Justis, Tubb-Drinkard and 32-percent to the Justis- North Devonian. This is in line with the anticipated production increases that we have indicated.

Q And the granting of this Application will prevent waste by extending the life of the three zones and allowing you to produce the Devonian which would otherwise be just left in place?

PIERCE-DIRECT

A That is correct.

Q Do you have any opinion as to any adverse effect on correlative rights with the granting of this Application?

A No, they will not be affected.

Q Were Exhibits 1 through 7 prepared by you or under your supervision?

A They were.

MR. KELLY: I would move the introduction of Texaco's Exhibits 1 through 7.

MR. NUTTER: Texaco's Exhibits 1 through 7 will be admitted into evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 7 were marked for identification, and were offered and admitted into evidence.)

MR. KELLY: We have no further direct testimony.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Pierce, did I understand you to say that the production, the liquids would be out the Devonian tubing string?

A That is correct.

Q And the other two would be used for vent strings?

A Yes, sir.

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Q Now, would the gas allocation be on the same basis of the percentages that you gave us?

A Right. As indicated, the Blinebry Zone has a relatively high GOR. Gas volume-wise it is not that great and we don't foresee any substantial increase other than what we would allocate it on this percentage basis.

Q So, this percent would be for liquids and gas too?

A Yes, sir.

MR. NUTTER: Are there any further questions of Mr. Pierce? You may be excused.

(Witness dismissed.)

MR. KELLY: We have nothing further.

MR. NUTTER: Does anyone have anything they wish to offer in Case 5500?

We will take the case under advisement.

PIERCE-CROSS

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

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.

COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5500 heard by me on 6/10, 1975.

[Signature] Examiner
New Mexico Oil Conservation Commission

THE NYE REPORTING SERVICE
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TEL. (505) 982-0386

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. 5500
Order No. R-5050

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 June 10, 1975,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 17th day of June, 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 "A" Federal Well No. 3, located in
Unit M of Section 35, Township 24 South, Range 37 East, NMPM,
Justis Field, Lea County, New Mexico.

(3) That the applicant seeks authority to commingle Bline-
bry, Tubb-Drinkard and Devonian production within 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 expect-
ed to be capable of low marginal production only.

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

-2-

Case No. 5500
Order No. R-5050

(8) 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.

(9) 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.

(10) That in order to allocate the commingled production to each of the commingled zones in the subject well, 42 percent of the commingled production should be allocated to the Blinebry zone, 26 percent of the commingled production to the Tubb-Drinkard zone, and 32 percent of the commingled production should be allocated to the Devonian zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to commingle Blinebry, Tubb-Drinkard and Devonian production within the wellbore of the G. L. Erwin "A" Federal Well No. 3, located in Unit M of Section 35, Township 24 South, Range 37 East, NMPM, Justis Field, Lea County, New Mexico.

(2) That 42 percent of the commingled production shall be allocated to the Blinebry zone, 26 percent of the commingled production shall be allocated to the Tubb-Drinkard zone, and 32 percent of the commingled production shall be allocated to the Devonian 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.

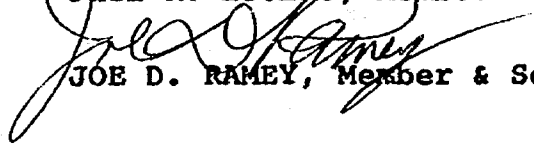
(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

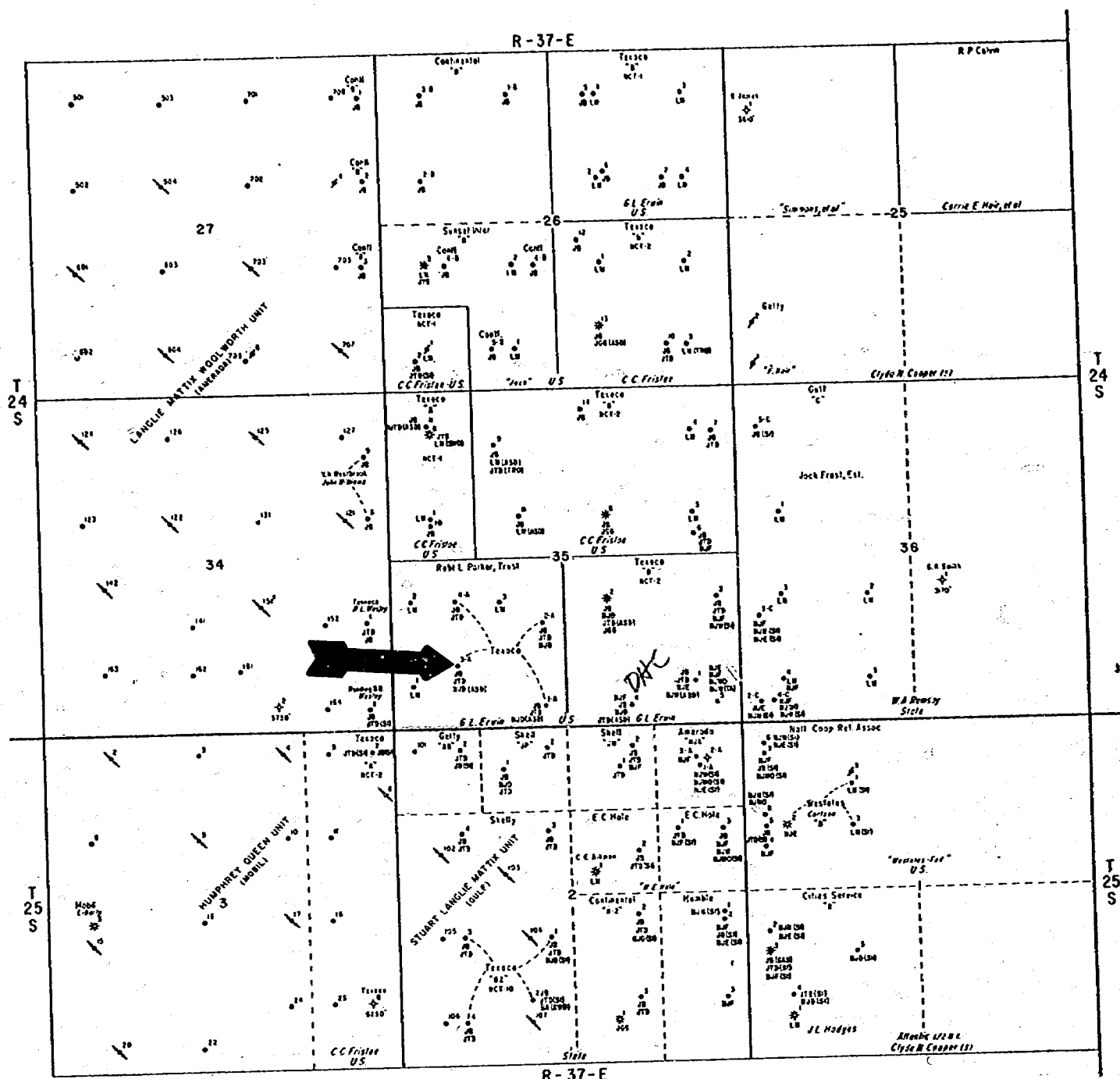
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


I. R. TRUJILLO, Chairman


PHIL R. LUCERO, Member


JOE D. RAMEY, Member & Secretary

jr/



POOL INDEX

JTG	JALMAT YATES GAS
JJB	JUSTIS BLINERY
JJC	JUSTIS GLORIA GAS
JTD	JUSTIS TUDOR OILFIELD
LM	LANGLIE MATTIX 7 AYERS
NJB	NORTH JUSTIS BLINERY
NJD	DEVONIAN

NJE	NORTH JUSTIS ELLENBURGER
NJF	FUSSELLMAN
NJW	MCREE
NJO	MONTGOMERY
NJD	TUDOR-ORANKARD
NJW	WADDELL

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'
FMR 9-1-71

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Texaco EXHIBIT NO. 1
CASE NO. 5500

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

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

Lease and Well No.: G. L. Erwin "A" Federal No. 3

Location: 990' FS & WL of Sec. 35, T-24-S, R-37-E

WELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	<u>Justis Blinebry</u>	<u>Justis Tubb-Drinkard</u>	<u>Justis North Devonian</u>
Producing Method	<u>Pump</u>	<u>Flow</u>	<u>Flow (Shut-in)</u>
BHP	<u>800 (Est.)</u>	<u>1027</u>	<u>1329</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>37.6</u>	<u>38.8</u>	<u>39.2</u>
GOR Limit	<u>6000</u>	<u>6000</u>	<u>2000</u>
Completion Interval	<u>5224'-5764'</u>	<u>5921'-6231' ✓</u>	<u>6866'-7126'</u>
Current Test Date	<u>4-25-75</u>	<u>4-26-75</u>	<u>Shut in June, 1974</u>
Oil	<u>3</u> <i>expect 5 BOPD increase</i>	<u>2</u> <i>expect 3 BOPD increase</i>	<u>-</u> <i>expect 6 BOPD</i>
Water	<u>11</u>	<u>1</u>	<u>-</u>
GOR	<u>20,500</u>	<u>1,200</u>	<u>-</u>
Selling Price of Crude - \$/BBL.	<u>5.78</u> <i>Texaco rec 42%</i>	<u>5.78</u> <i>26%</i>	<u>5.78</u> <i>32%</i>
Daily Income - \$/Day	<u>17.34</u>	<u>11.56</u>	<u>-</u>

COMMINGLED DATA:

Gravity of Commingled Crude 38.8
 Selling Price of Commingled Crude - \$/BBL. 5.78
 Daily Income - \$/Day 28.90

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
Texaco EXHIBIT NO. 2
 CASE NO. 5500

Net (Gain) (~~loss~~) from Wellbore Commingling - \$/Day 80.92 (Production increase of 14 BOPD)
 based on current producing rates.

2-3/8" csg. cemented with 1600 sacks. Cement top at 2600'. by temperature survey.

2-3/8" csg. set at 7374'.

BLINEBRY
Perf:
5224'-5764'

TUBB-DRINKARD

DEVONIAN

11-3/4" csg. set at 314'. Cemented with 275 sacks. Cement circulated.

8-5/8" csg. set at 3602'. Cemented with 1525 sacks. Cement circulated.

2-3/8" csg. set at 7396'.

2-3/8" csg. set at 7393'.

TUBB-DRINKARD
Perf:
5921'-6231'

DEVONIAN
Perf:
6865'-7126'

TD 7400'

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Texaco EXHIBIT NO. 3
CASE NO. 5500

Present Completion
G.L. ERVIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75

2-3/8" csg. cemented with 1600 sacks. Cement top at 2600' by temperature survey.

2-3/8" csg. set at 7374'.

BLINEBRY
Perf:
5224'-5764'

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
TEXACO EXHIBIT NO. 4
CASE NO. 5500

Communicated 700
7010

TUBB-DRINKARD
DEVONIAN

11-3/4" csg. set at 314'. Cemented with 275 sacks. Cement circulated.

8-5/8" csg. set at 3602'. Cemented with 1525 sacks. Cement circulated.

2-3/8" csg. set at 7396'.

2-3/8" csg. set at 7393'.

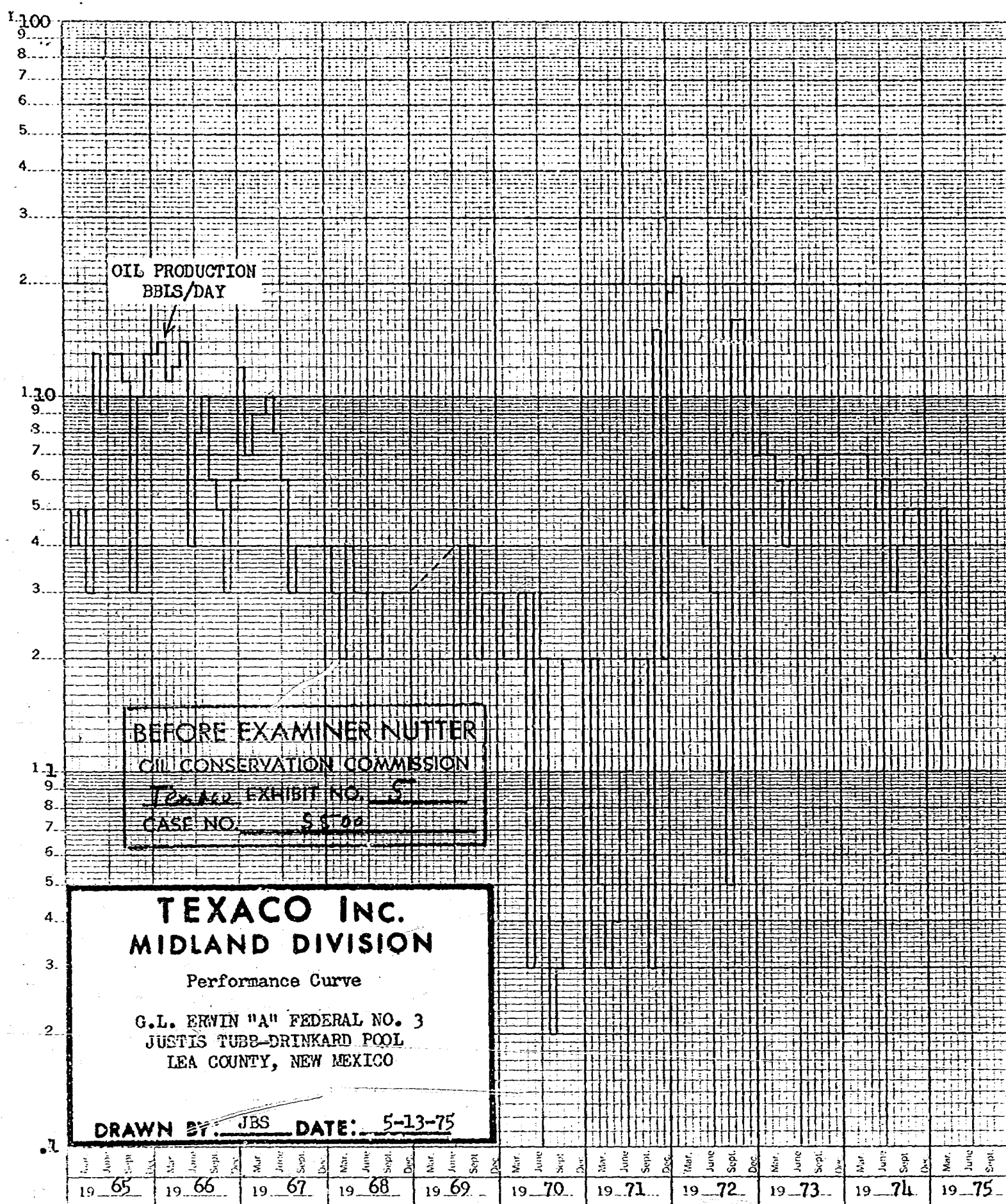
TUBB-DRINKARD
Perf:
5921'-6231'

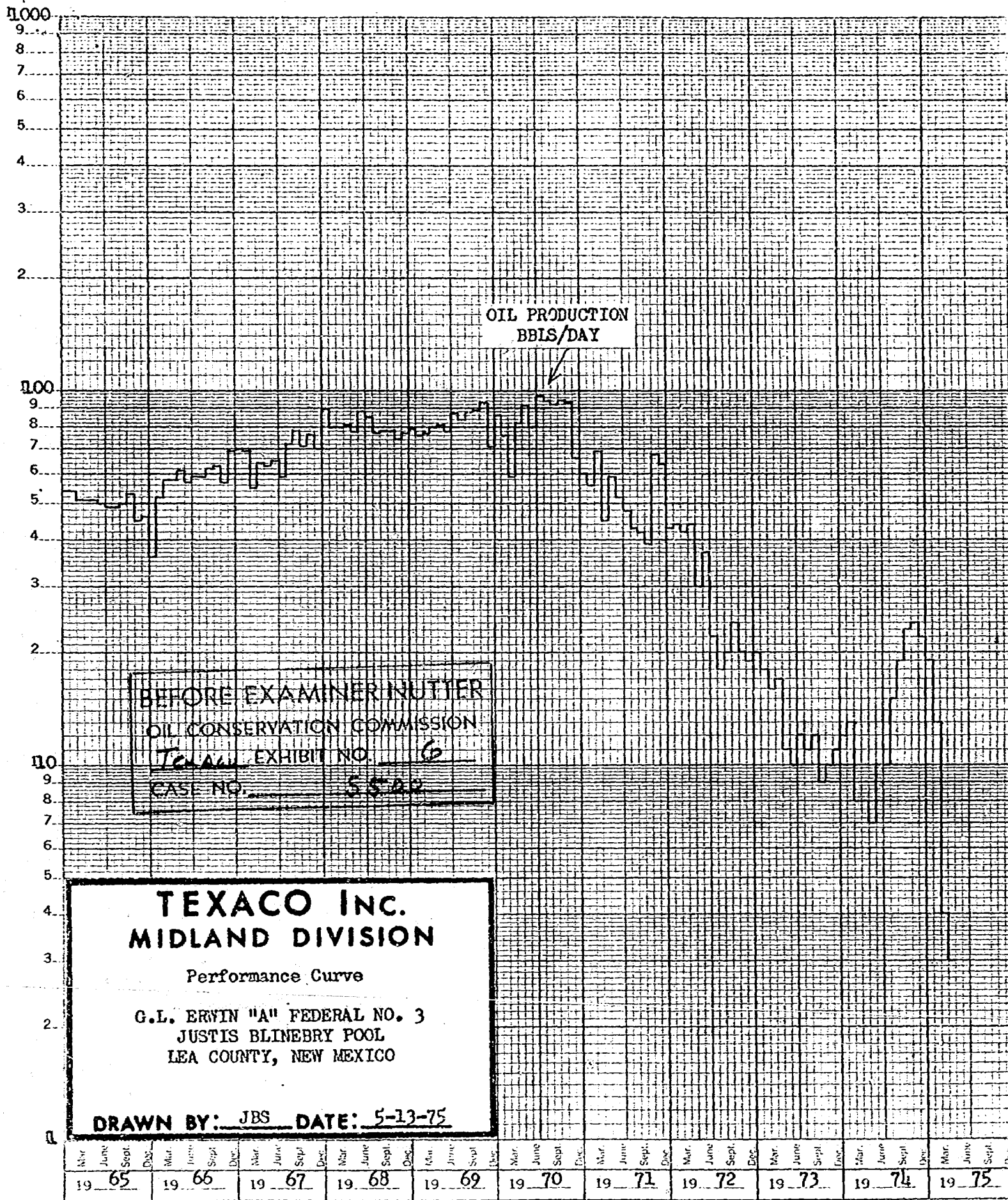
DEVONIAN
Perf:

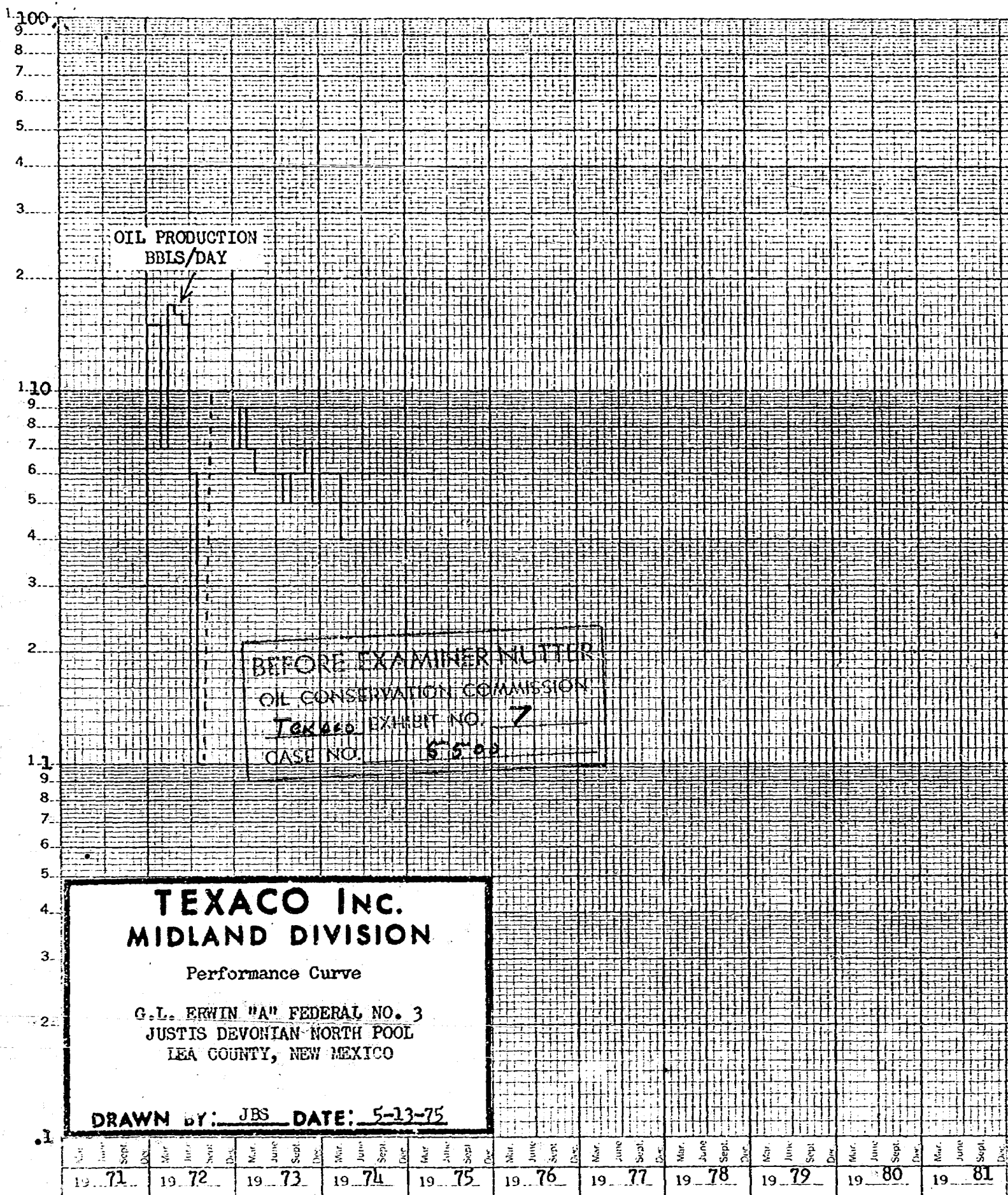
TD 7400'

Proposed Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75









PETROLEUM PRODUCTS

May 14, 1975

*For
Hearing*

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

Case 5500
TEXACO INC.
DRAWER 728
HOBBS, NEW MEXICO 88240

RECEIVED
MAY 15 1975
OIL CONSERVATION COMM.
Santa Fe

Re: Request for Examiner Hearing
Application for Downhole Commingle
G. L. Erwin "A" Federal No. 3
Justis (Blinbry, Tubb-Drinkard)
and North Devonian) Pools
Lea County, New Mexico

Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO's application to downhole commingle the Justis (Blinbry, Tubb-Drinkard and North Devonian) Pools in the G. L. Erwin "A" Federal Well No. 3 located in Unit M of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

Please find enclosed three copies of exhibits required for hearing application.

All offset operators and the USGS are being notified of this application by copy of letter.

Yours very truly,

J. V. Gannon
J. V. GANNON

District Superintendent

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

DOCKET MAILED

Date _____

DATA SHEET FOR WELLBORE COMMINGLING

Case 5500

Operator: TEXACO Inc.

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

Lease and Well No.: G. L. Erwin "A" Federal No. 3

Location: 990' FS & WL of Sec. 35, T-24-S, R-37-E

MAY 15 1975
OIL CONSERVATION COMM.
Santa Fe

WELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	Justis Blinebry	Justis Tubb-Drinkard	Justis North Devonian
Producing Method	Pump	Flow	Flow (Shut-in)
BHP	800 (Est.)	1027	1329
Type Crude	Sweet	Sweet	Sweet
Gravity	37.6	38.8	39.2
GOR Limit	6000	6000	2000
Completion Interval	5224'-5764'	5921'-6231'	6866'-7126'
Current Test Date	4-25-75	4-26-75	Shut in June, 1974
Oil	3	2	-
Water	11	1	-
GOR	20,500	1,200	-
Selling Price of Crude - \$/BBL.	5.78	5.78	5.78
Daily Income - \$/Day	17.34	11.56	-

COMMINGLED DATA:

Gravity of Commingled Crude 38.8

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

Daily Income - \$/Day 28.90

Net (Gain) (loss) from Wellbore Commingling - \$/Day 80.92 (Production increase of 14 BOPD) based on current producing rates.



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

3713 W. MARLAND ST.

P. O. BOX 1829

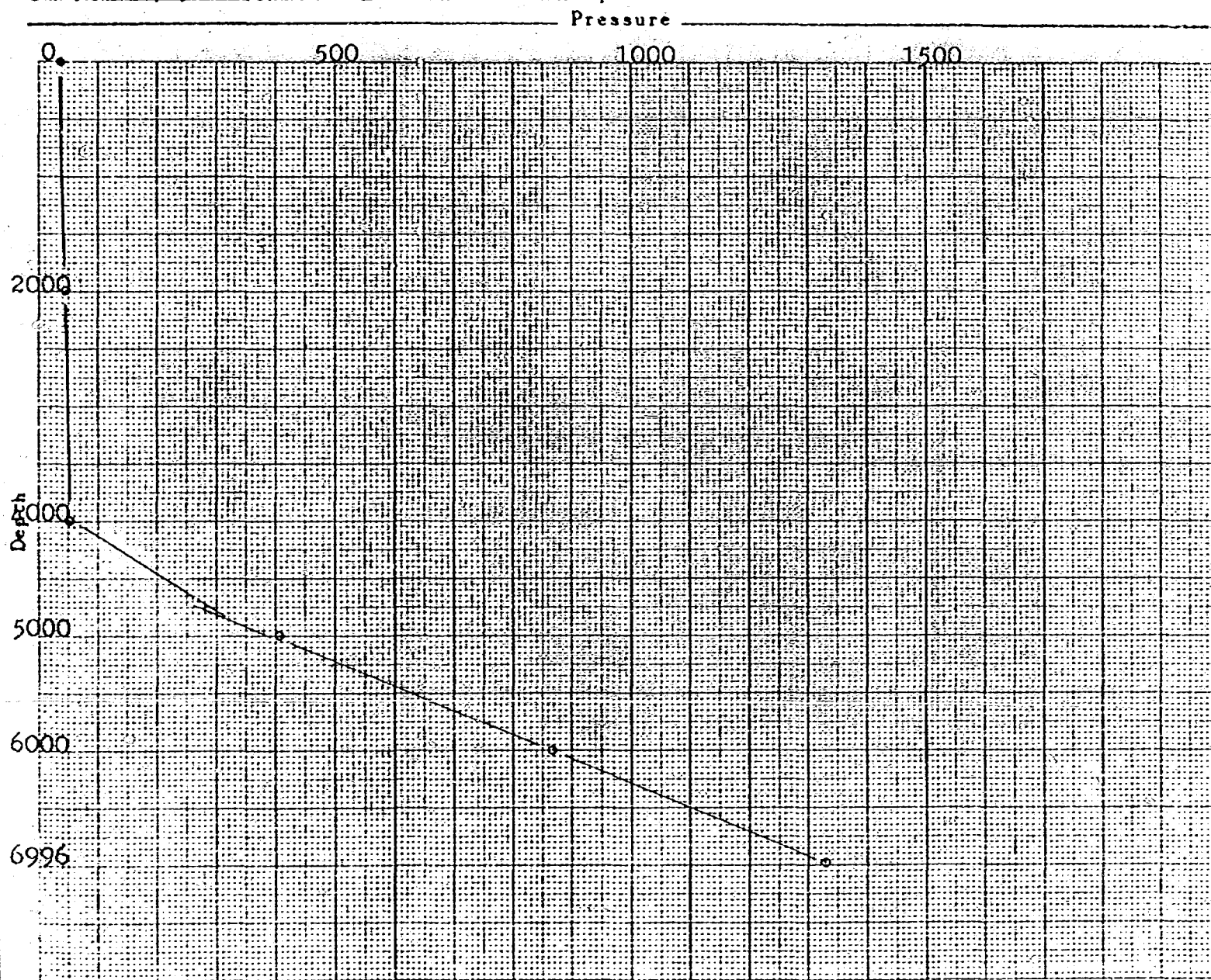
HOBBS, NEW MEXICO 88240

Case 5500

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Inc.
FIELD North Justis FORMATION Devonian
LEASE G.L. Erwin A Federal WELL No. 3
COUNTY Lea STATE New Mexico
DATE 4-17-75 TIME 10:30Am
Status Shut in Test depth 6996'
Time S. I. 14 days Last test date -
Tub Pres. 39 BHP last test -
Cas. Pres. Triple BHP change -
Elev. 3181' GL Fluid top 4000'
Datum (-3813)** Water top 4829'
Temp. @ 100F Run by Peacock
Cal. No. A2419N Chart No. 1

Depth	Pressure	Gradient
0	39	-
2000	45	.003
4000	51	.003
5000	406	.355
6000	868	.462
6996(-3813)	1329	.463





COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

3713 W. MARLAND ST

P. O. BOX 1829

HOBBS, NEW MEXICO 88240

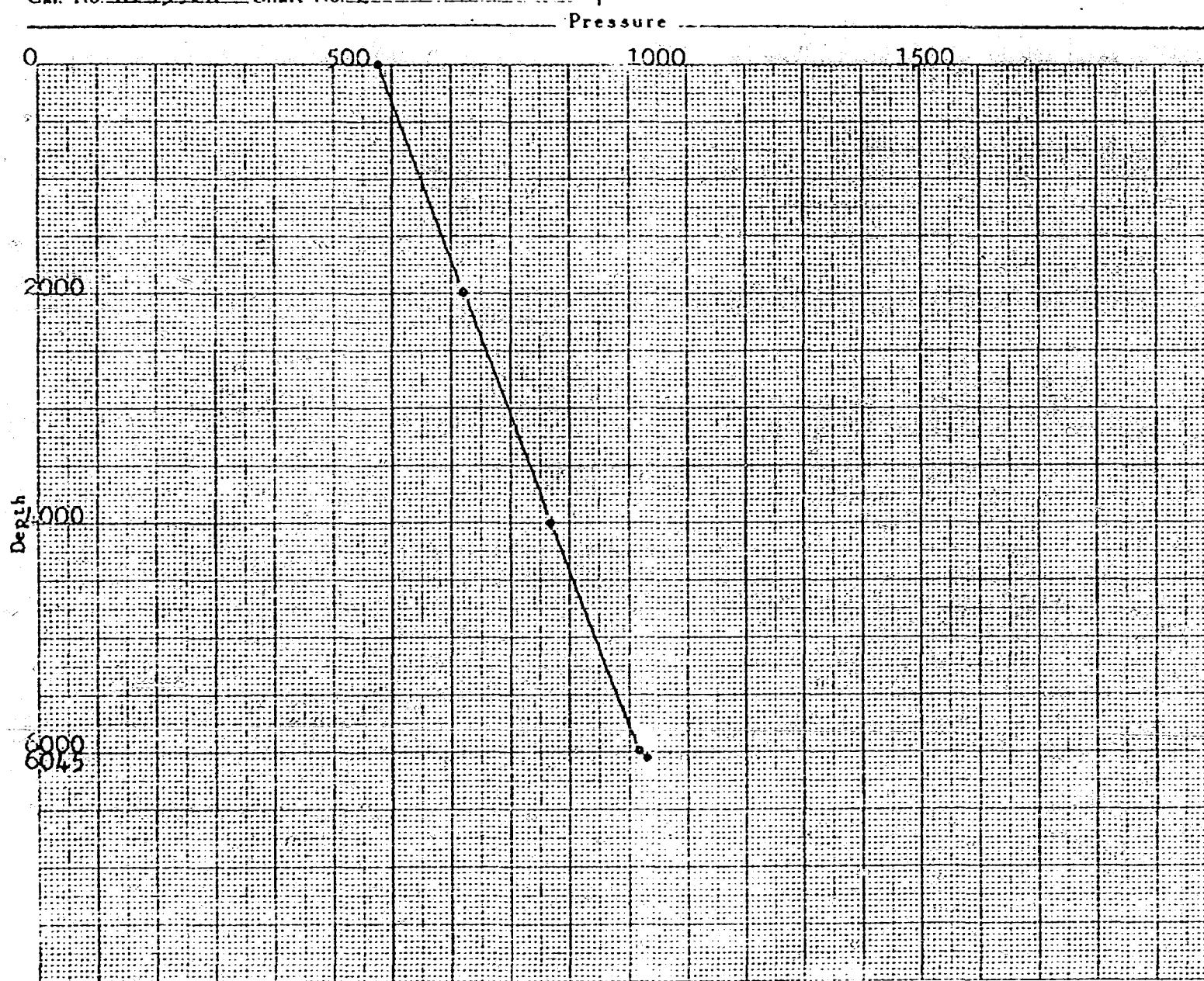
Case 5500

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Inc.FIELD Justia FORMATION Tubb DrinkardLEASE G.L. Erwin A WELL No. 3COUNTY Lea STATE New MexicoDATE 3-3-75 TIME 12:00 NStatus Shut in Test depth 6045'Time S. 1 1/2 hrs Last test date -Tub Pres 575 BHP last test -Cas. Pres Triple BHP change -Elev. 3183' GL Fluid top 6000'Datum (-2862)** Water top -Temp. @ 100 F Run by PeacockCal. No. A27592N Chart No. 2

Depth	Pressure	Gradient
0	575	-
2000	720	.073
4000	868	.073
6000	1014	.074
6045(-2862)	1027**	.289

** Mid Point of Casing Perforations



**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator UNACCO Inc.		Pool See Below		County Lea											
Address P. O. Box 728, Hobbs, New Mexico		TYPE OF TEST - (X)		Scheduled ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	Completion ☐ Special ☒			GAS - OIL RATIO CU. FT./BBL.		
		U	S	T						R	WATER BBL.	PROD. GRAV. OIL BBL.		GAS M.C.F. M.C.F.	
G. L. Ervin "A" Federal	3	14	35	24-S	37-E										
Justis Blinbry						4-25-75	P		24	24	11	37.6	3	61.5	20,509
Justis Hubbard-Drinkard						4-26-75	P	30/64	300	6	24	1	38.8	2	2.4
Justis North Devonian						SHUT IN									

MAY 15 1975
NEW MEXICO
OIL CONSERVATION COMM.
Santa Fe

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.

[Signature]
Assistant District Superintendent
(Title)
April 28, 1975
(Date)

5960

Case 5500

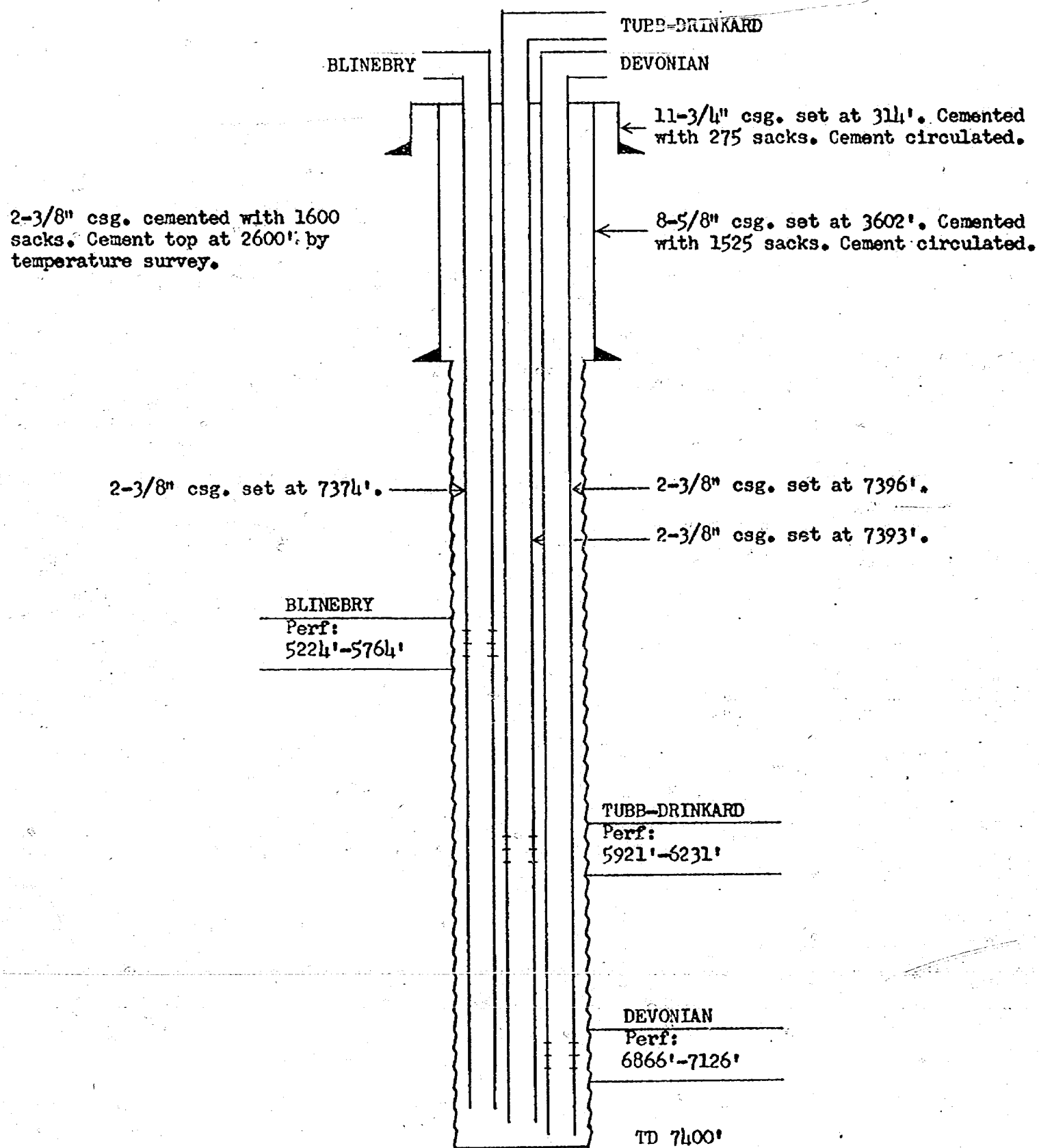
OFFSET OPERATORS

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

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

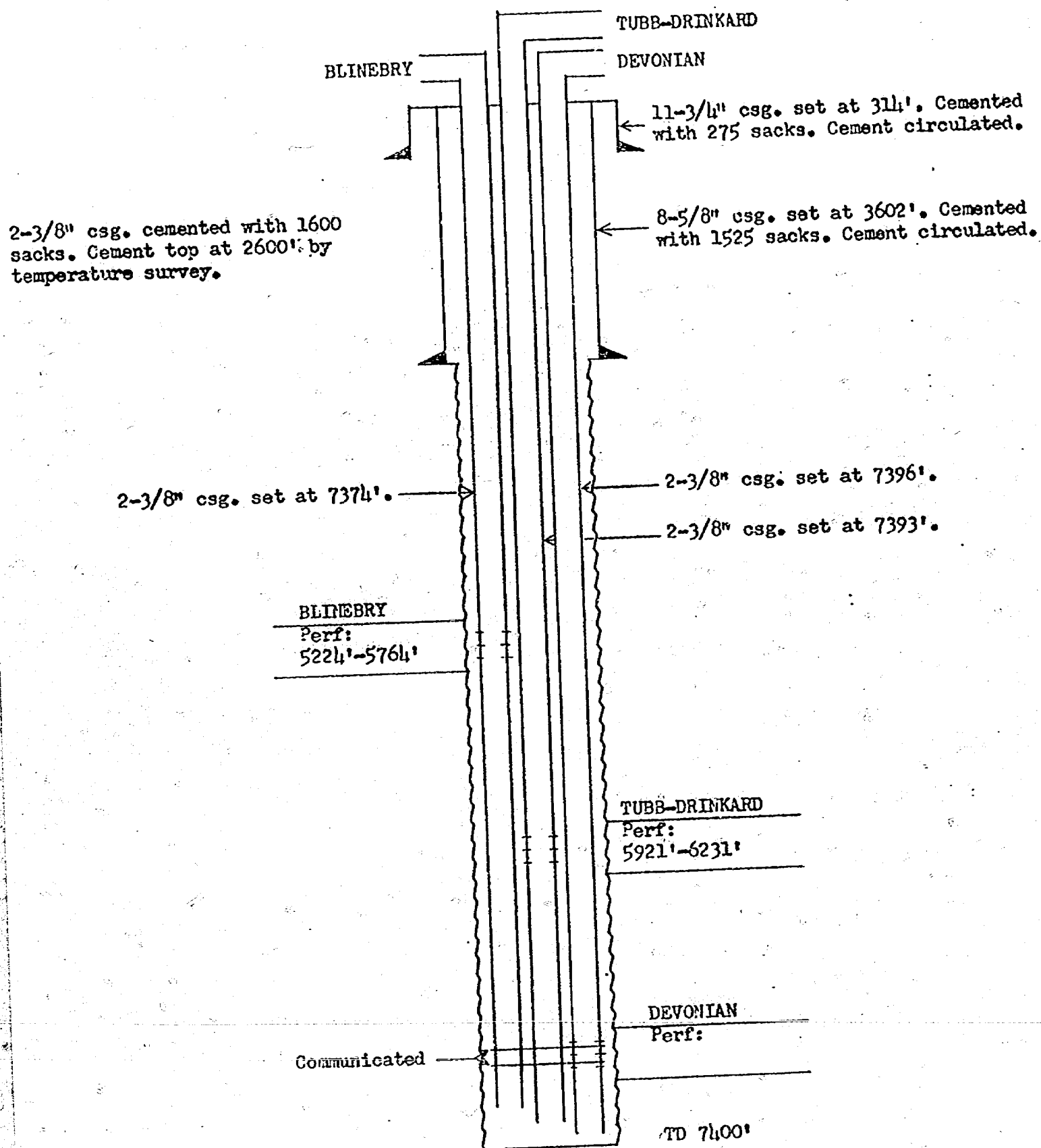
Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240

Case 3500



Present Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

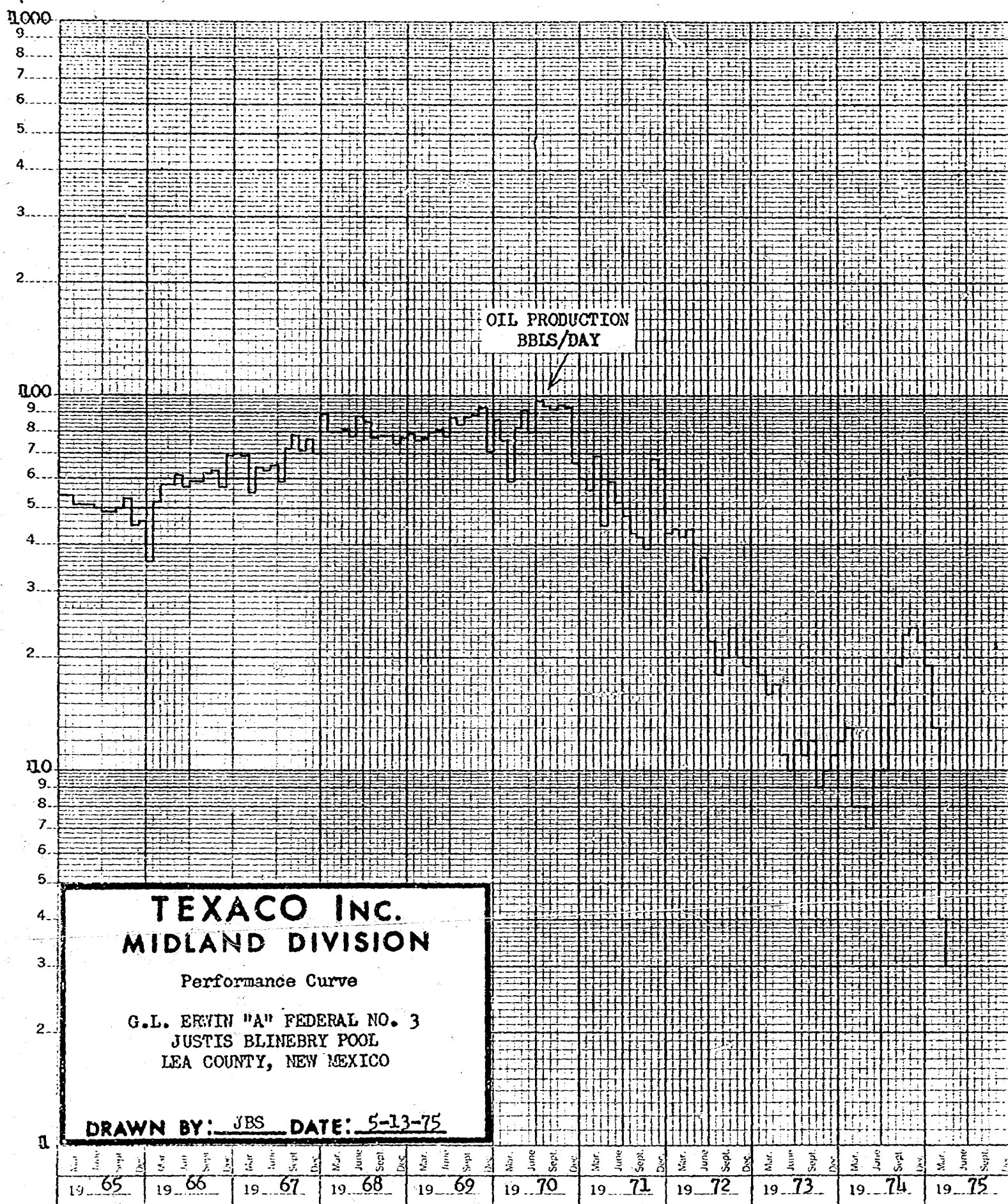
JBS 5-13-75



Proposed Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75

Case 5500



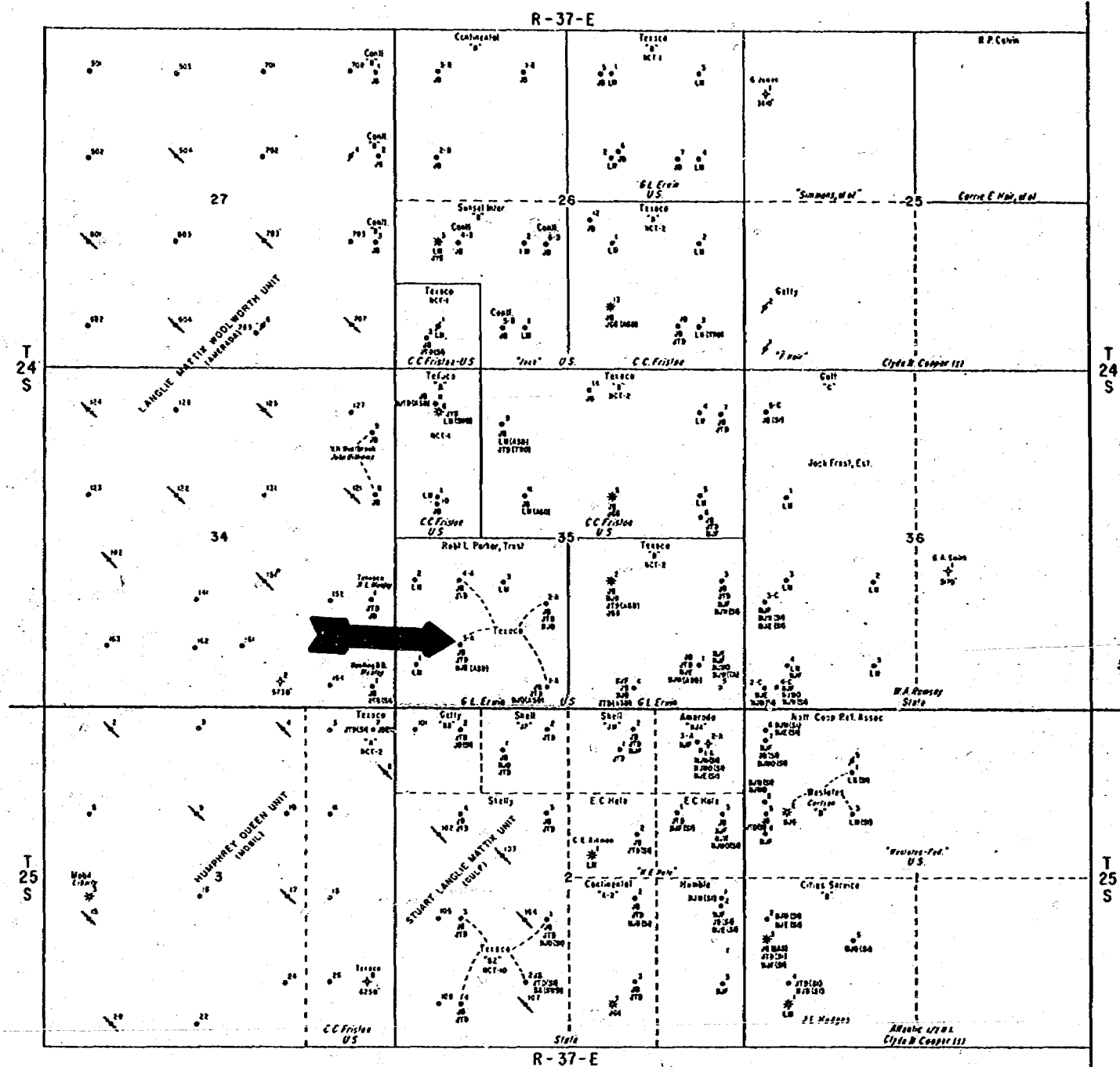
TEXACO INC.
MIDLAND DIVISION

Performance Curve

G.I. ERWIN "A" FEDERAL NO. 3
 JUSTIS DEVONIAN NORTH POOL
 IEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-13-75

Case 5500



POOL INDEX

J16 JALMAT YATES GAS
J18 JUSTIS BLINERY
J19 JUSTIS GLORETA GAS
J20 JUSTIS TUBB-DUNKARD
LW LANGLEIE MATTIX T RIVERS
N18 NORTH JUSTIS BLINERY
N19 NORTH JUSTIS DEVONIAN

N1E NORTH JUSTIS ELLENBURGER
N1F FUSSELLMAN
N1M MCKEE
N1N MONTROYA
N1O TUBB-DUNKARD
N1P WIDDELL

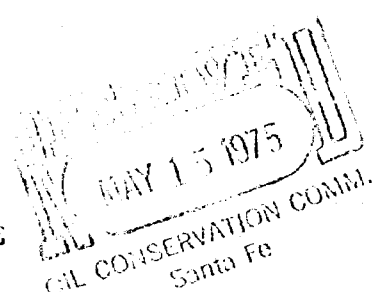
LEGEND

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

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

SCALE: 0' 1000' 2000'
FMR 9-1-71

Case 5500

DATA SHEET FOR WELLBORE COMMINGLINGOperator: TEXACO Inc.Address: P. O. Box 728, Hobbs, New MexicoLease and Well No.: G. L. Erwin "A" Federal No. 3Location: 990' FS & WL of Sec. 35, T-24-S, R-37-EWELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	<u>Justis Blinebry</u>	<u>Justis Tubb-Drinkard</u>	<u>Justis North Devonian</u>
Producing Method	<u>Pump</u>	<u>Flow</u>	<u>Flow (Shut-in)</u>
BHP	<u>800 (Est.)</u>	<u>1027</u>	<u>1329</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>37.6</u>	<u>38.8</u>	<u>39.2</u>
GOR Limit	<u>6000</u>	<u>6000</u>	<u>2000</u>
Completion Interval	<u>5224'-5764'</u>	<u>5921'-6231'</u>	<u>6866'-7126'</u>
Current Test Date	<u>4-25-75</u>	<u>4-26-75</u>	<u>Shut in June, 1974</u>
Oil	<u>3</u>	<u>2</u>	<u>-</u>
Water	<u>11</u>	<u>1</u>	<u>-</u>
GOR	<u>20,500</u>	<u>1,200</u>	<u>-</u>
Selling Price of Crude - \$/BBL.	<u>5.78</u>	<u>5.78</u>	<u>5.78</u>
Daily Income - \$/Day	<u>17.34</u>	<u>11.56</u>	<u>-</u>

COMMINGLED DATA:Gravity of Commingled Crude 38.8Selling Price of Commingled Crude - \$/BBL. 5.78Daily Income - \$/Day 28.90Net (Gain) (loss) from Wellbore Commingling - \$/Day 80.92 (Production increase of 14 BOPD)
based on current producing rates.



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

3713 W. MARLAND ST.

P. O. BOX 1829

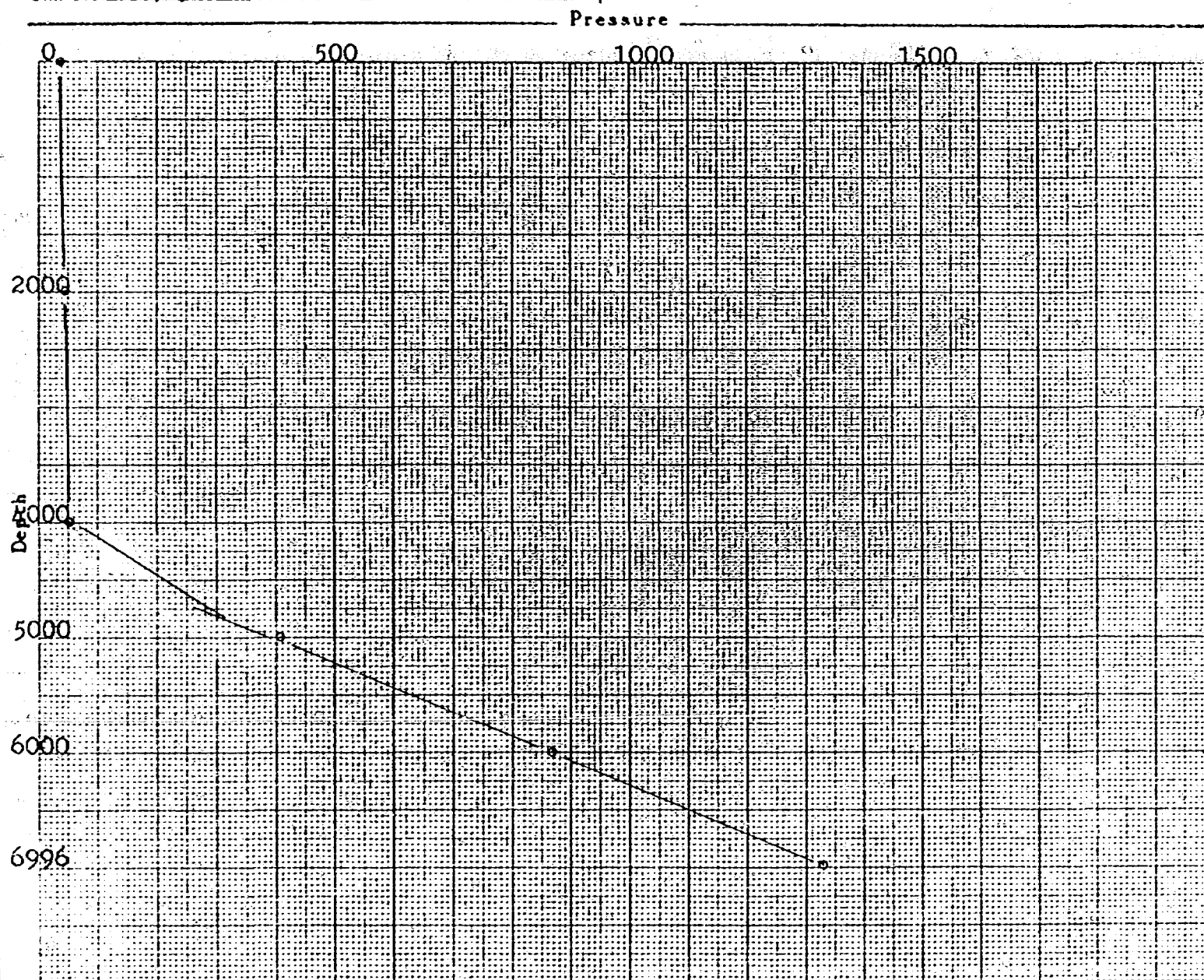
HOBBS, NEW MEXICO 88240

Case 5500

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Inc.
FIELD North Justis FORMATION Devonian
LEASE G.L. Erwin A Federal WELL No. 3
COUNTY Lea STATE New Mexico
DATE 4-17-75 TIME 10:30Am
Status Shut in Test depth 6996'
Time S. I. 14 days Last test date -
Tub Pres. 39 BHP last test -
Gas Pres. Triple BHP change -
Elev. 3181' GL Fluid top 4000'
Datum (-3813)** Water top 4829'
Temp. @ 100F Run by Peacock
Cal. No. A2419N Chart No. 1

Depth	Pressure	Gradient
0	39	-
2000	45	.003
4000	51	.003
5000	406	.355
6000	868	.462
6996(-3813)	1329	.463





COLEMAN PETROLEUM ENGINEERING COMPANY

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3713 W. MARLAND ST

P. O. BOX 1829

HOBBS, NEW MEXICO 88240

Case 5500

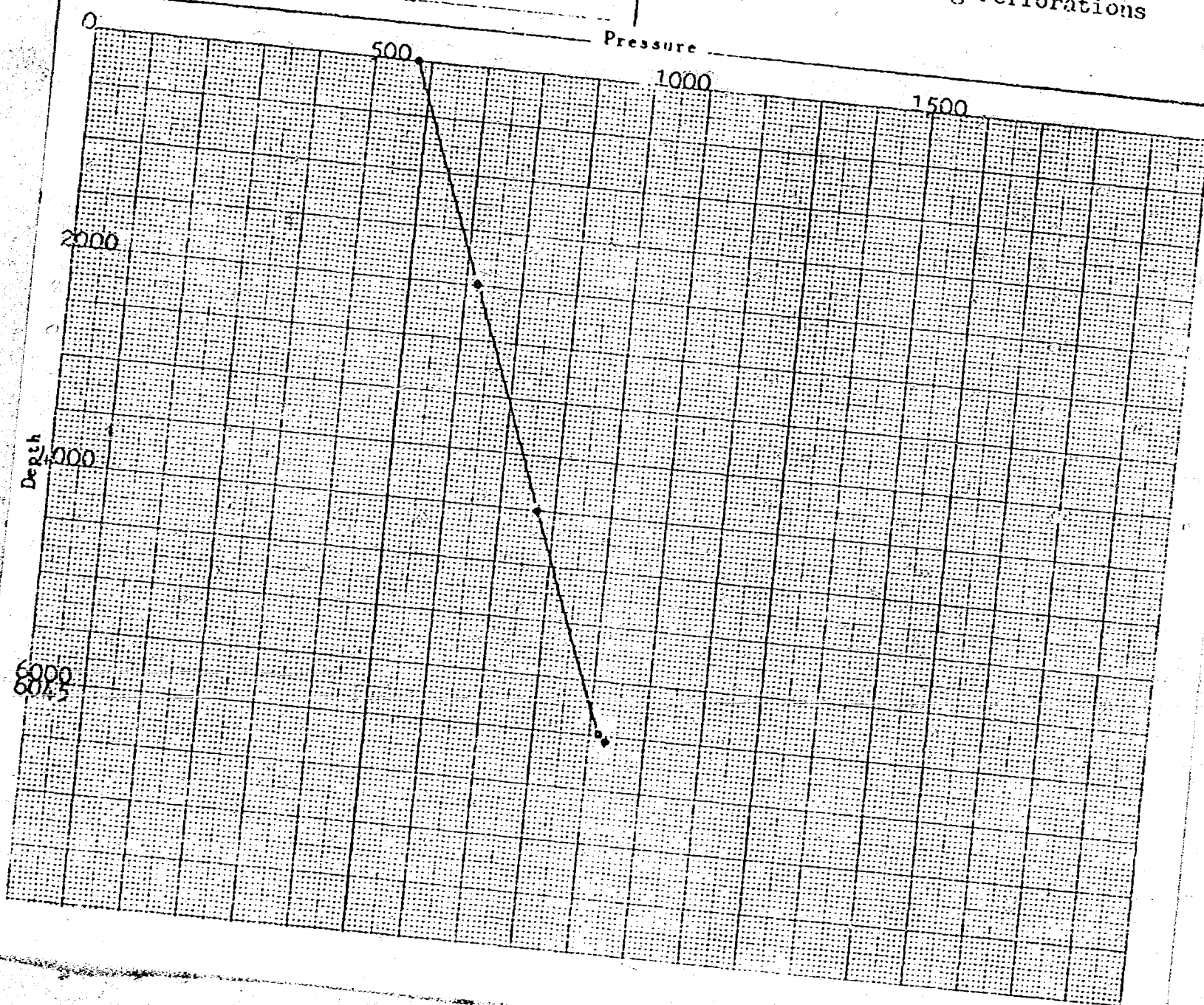
OPERATOR Texaco Inc.
FIELD Justia
LEASE G.L. Erwin A
COUNTY Lea
DATE 3-1-75
Status Shut in
Time S. 1.43.0 hrs
Tub Pres. 575
Cas. Pres. Triple
Elev. 3183' GL
Datum (-2862)**
Temp. @ 100' F
Cal. No. A27592N
Chart No. 2

FORMATION Tubb Drinkard
WELL No. 3
STATE New Mexico
TIME 12:00 N
Test depth 6045'
Last test date -
BHP last test -
BHP change -
Fluid top 6000'
Water top -
Run by Peacock

BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
0	575	-
2000	720	.073
4000	868	.073
6000	1014	.074
6045(-2862)	1027**	.289

** Mid Point of Casing Perforations



C-116
Revised 1-1-65


 (Signature)
Assistant District Superintendent
 (Title)
 April 28, 1975
 CC

Case 5500

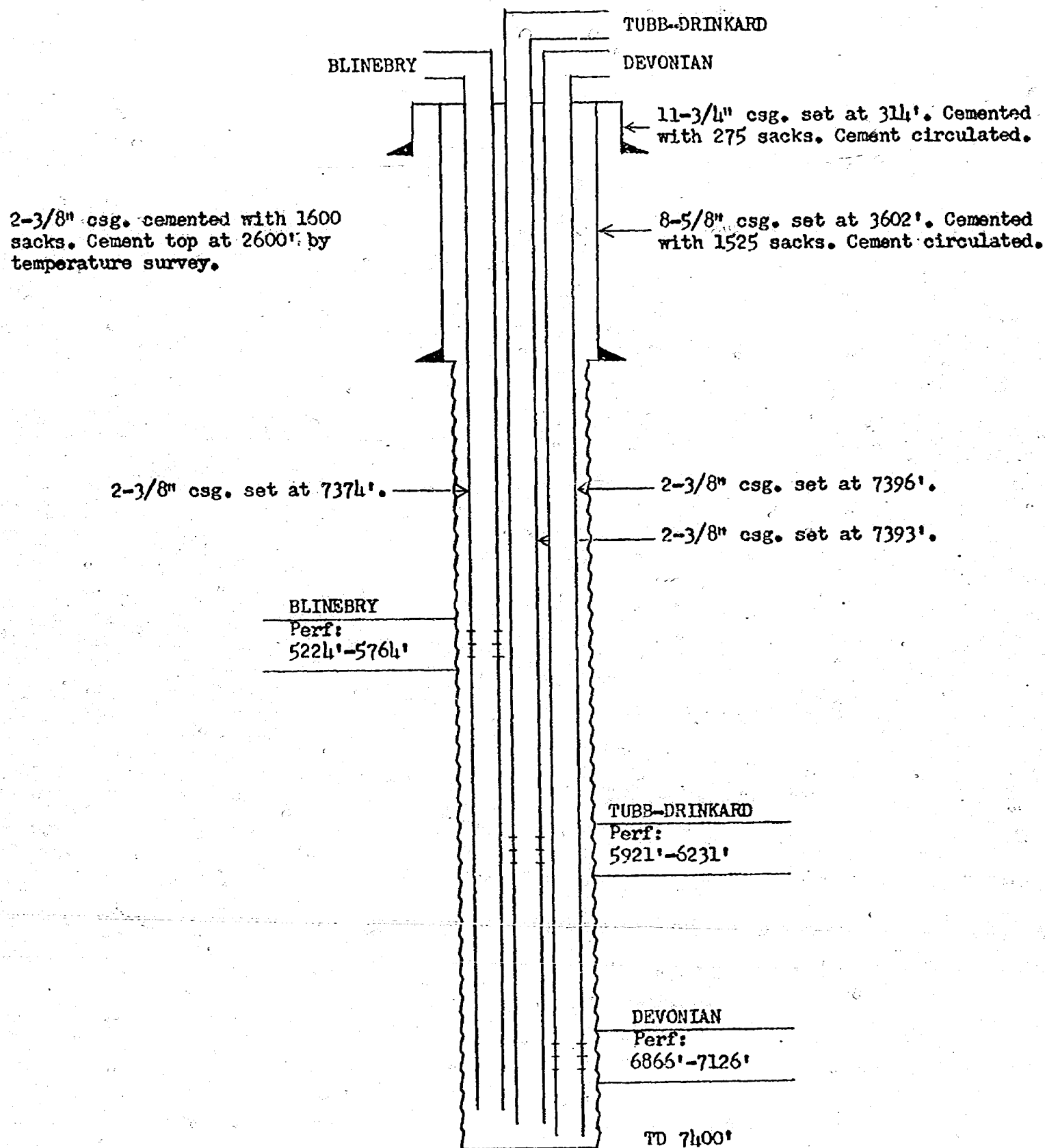
OFFSET OPERATORS

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

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

Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240

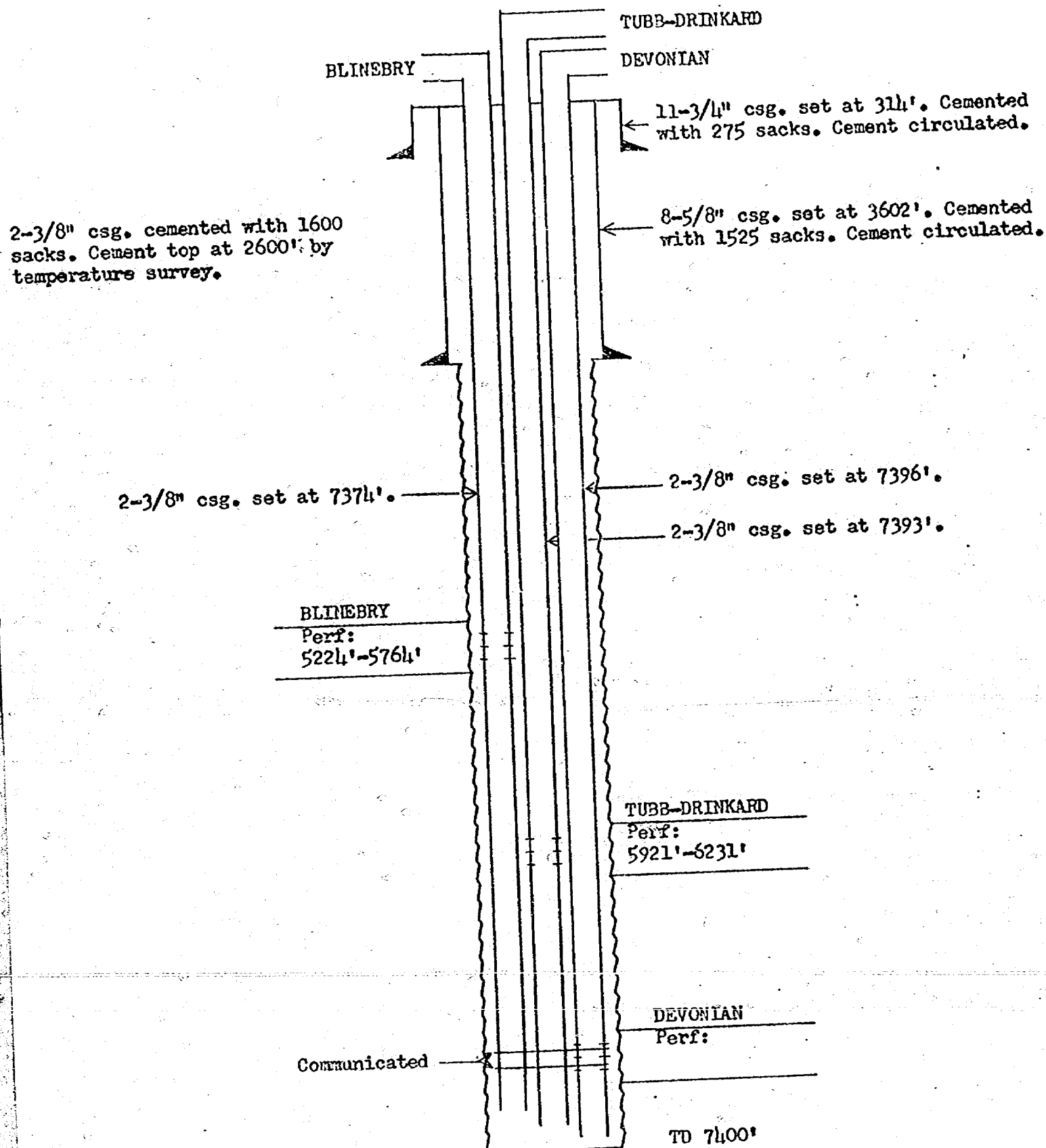
Case 5500



Present Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75

Case 5500



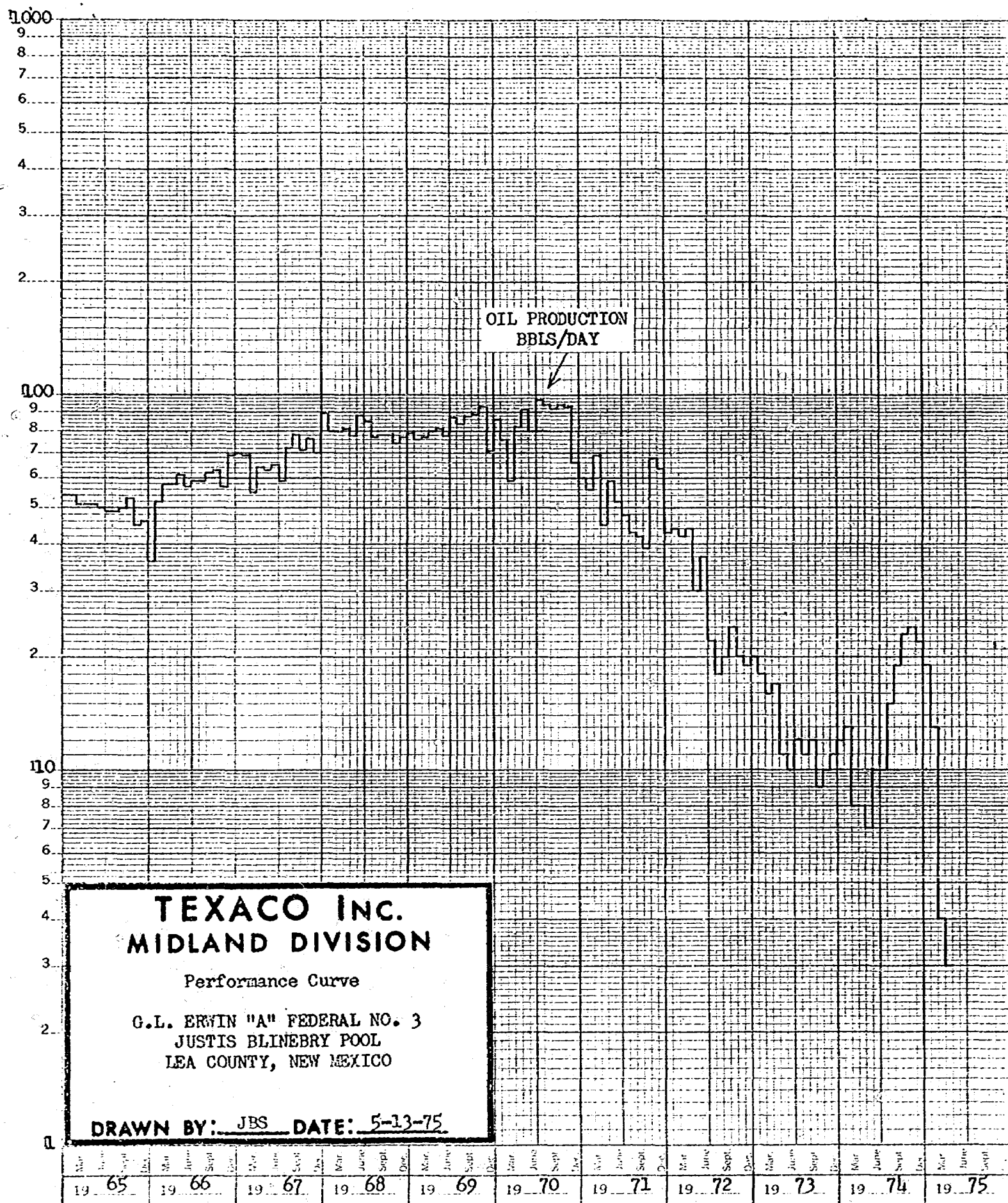
Proposed Completion
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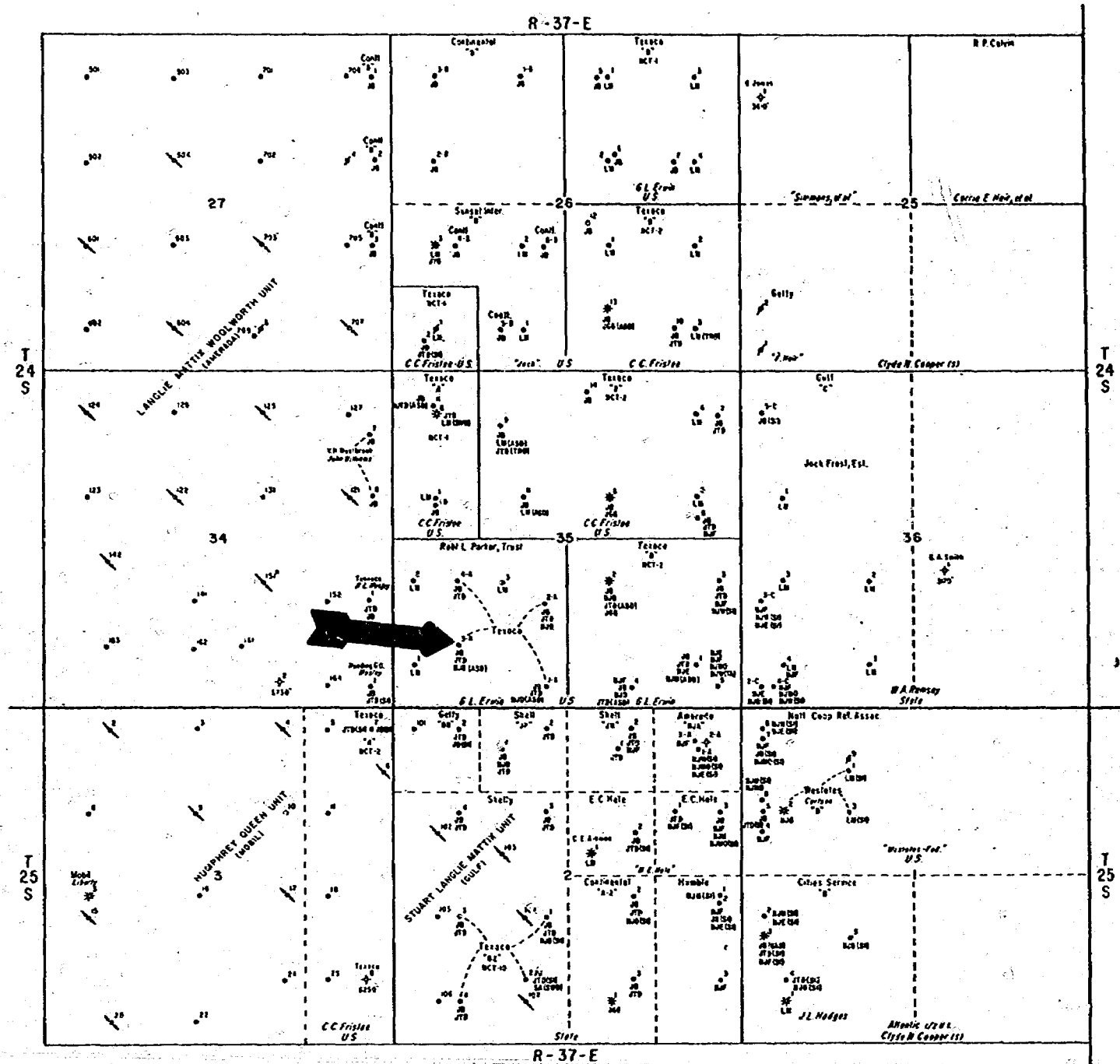
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Case 5500



Case 5500



POOL INDEX

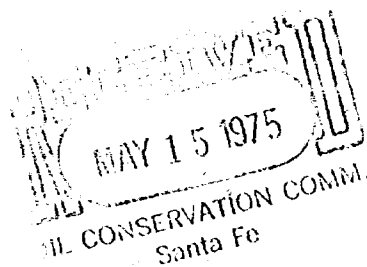
JTD	JALMAT YATES GAS	NJE	NORTH JUSTIS ELLENBURGER
JB	JUSTIS BLUEBERRY	NJF	FUSSELMAN
JGG	JUSTIS GLORETA GAS	NJM	MCKEE
JTD	JUSTIS TUBE-DUNKARD	NJMO	MONTROY
LM	LANGLIE MATTIX 7 RIVERS	NJTD	TUBE-DUNKARD
NJB	NORTH JUSTIS BLUEBERRY	NJW	WADDELL
NJD	DEVONIAN		

LEGEND

(ABO)	ABANDONED
(ASD)	ABANDONED-SALVAGE DEFERRED
(SH)	SHUT IN
(SPD)	SALT WATER DISPOSAL
(TA)	TEMPORARILY ABANDONED
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TEXACO Inc.
JUSTIS & LANGLIE MATTIX POOLS
LEA COUNTY, NEW MEXICO
SCALE: 0' 1000' 2000'
FMR 9-1-71

Case 5500

DATA SHEET FOR WELLBORE COMMINGLINGOperator: TEXACO Inc.Address: P. O. Box 728, Hobbs, New MexicoLease and Well No.: G. L. Erwin "A" Federal No. 3Location: 990' FS & WL of Sec. 35, T-24-S, R-37-EWELL DATA

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Name of Pool	<u>Justis Blinebry</u>	<u>Justis Tubb-Drinkard</u>	<u>Justis North Devonian</u>
Producing Method	<u>Pump</u>	<u>Flow</u>	<u>Flow (Shut-in)</u>
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GOR	<u>20,500</u>	<u>1,200</u>	<u>-</u>
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COMMINGLED DATA:Gravity of Commingled Crude 38.8Selling Price of Commingled Crude - \$/BBL. 5.78Daily Income - \$/Day 28.90Net (Gain) (loss) from Wellbore Commingling - \$/Day 80.92 (Production increase of 14 BOPD)
based on current producing rates.

Case 5500



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

3713 W. MARLAND ST

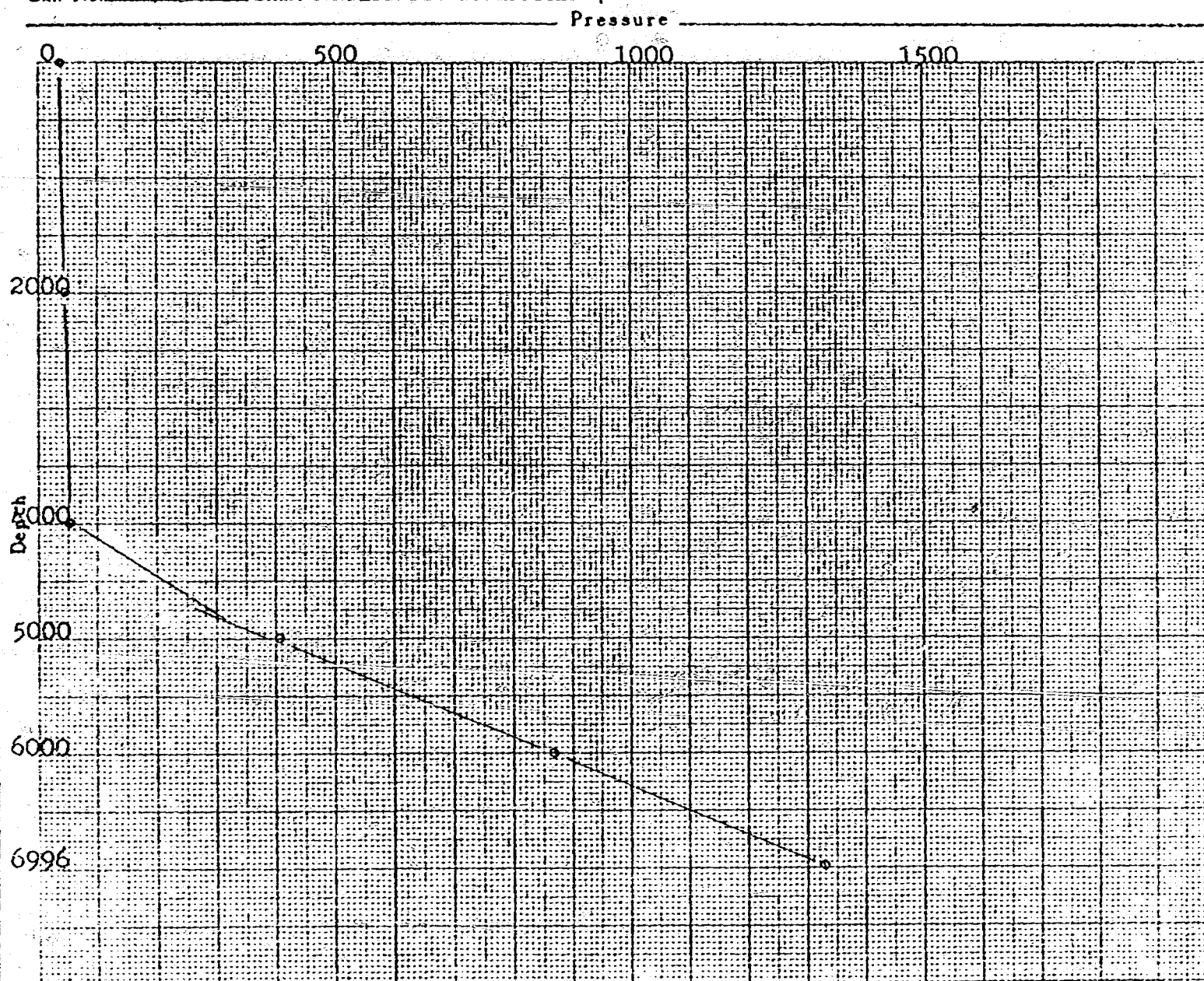
P. O. BOX 1829

HOBBES, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Inc.
 FIELD North Justis FORMATION Devonian
 LEASE G.L. Erwin A Federal WELL No. 3
 COUNTY Lea STATE New Mexico
 DATE 4-17-75 TIME 10:30Am
 Status Shut in Test depth 6996'
 Time S. 1.14 days Last test date -
 Tub Pres. 39 BHP last test -
 Cas. Pres. Triple BHP change -
 Elev. 3181' GL Fluid top 4000'
 Datum (-3813)** Water top 4829'
 Temp. @ 100F Run by Peacock
 Cal. No. A2419N Chart No. 1

Depth	Pressure	Gradient
0	39	-
2000	45	.003
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6996(-3813)	1329	.463





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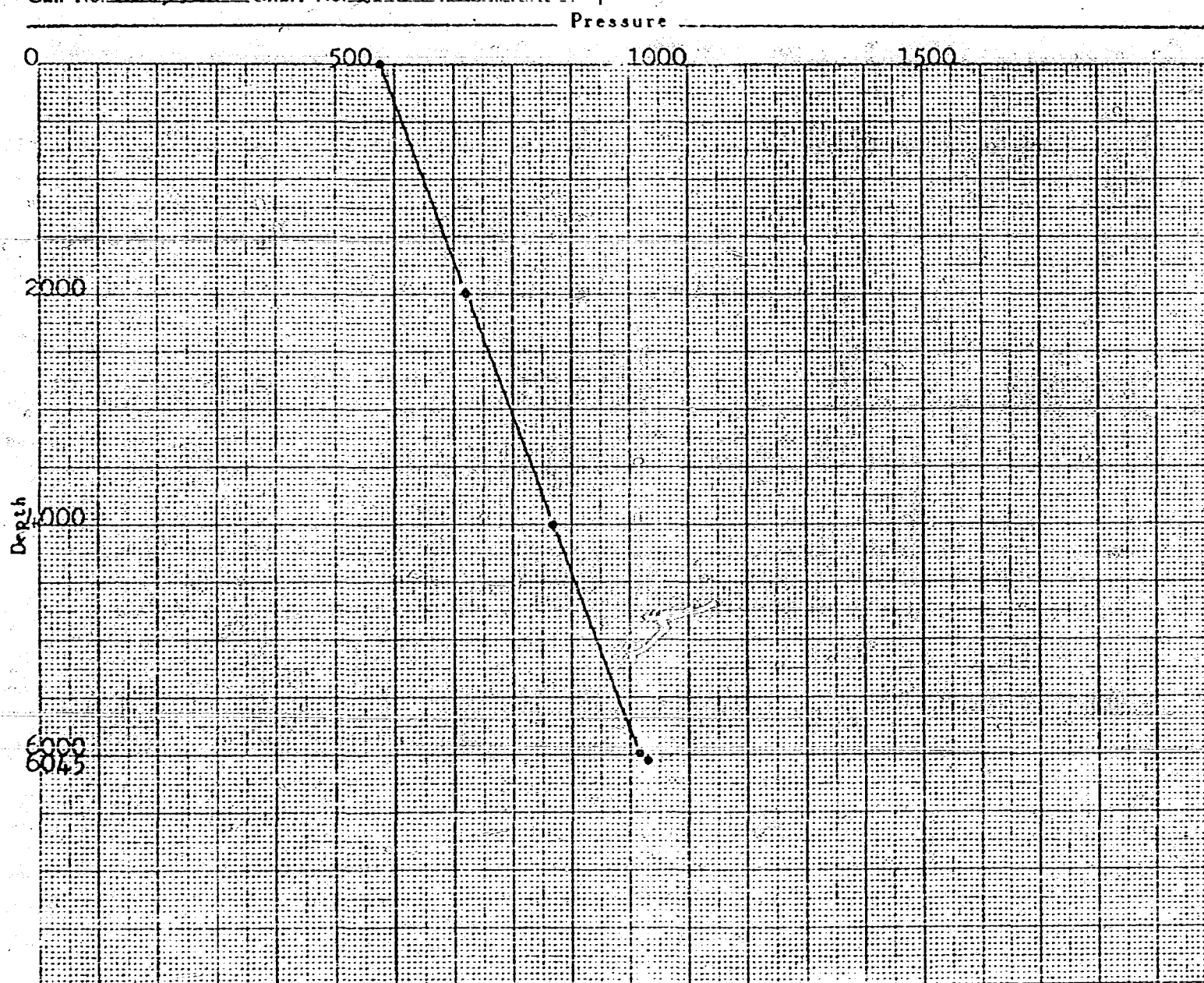
Case 5500

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Inc.FIELD Justis FORMATION Tubb DrinkardLEASE G.L. Erwin A WELL No. 3COUNTY Lea STATE New MexicoDATE 3-3-75 TIME 12:00 NStatus Shut in Test depth 6045'Time S. I. 1.18 hrs Last test date -Tub Pres 575 BHP last test -Cas. Pres Triple BHP change -Elev. 3183' GL Fluid top 6000'Datum (-2862)** Water top -Temp @ 100' F Run by PeacockCal. No. A20592N Chart No. 2

Depth	Pressure	Gradient
0	575	-
2000	720	.073
4000	868	.073
6000	1014	.074
6045 (-2862)	1027**	.289

** Mid Point of Casing Perforations



Case 5500

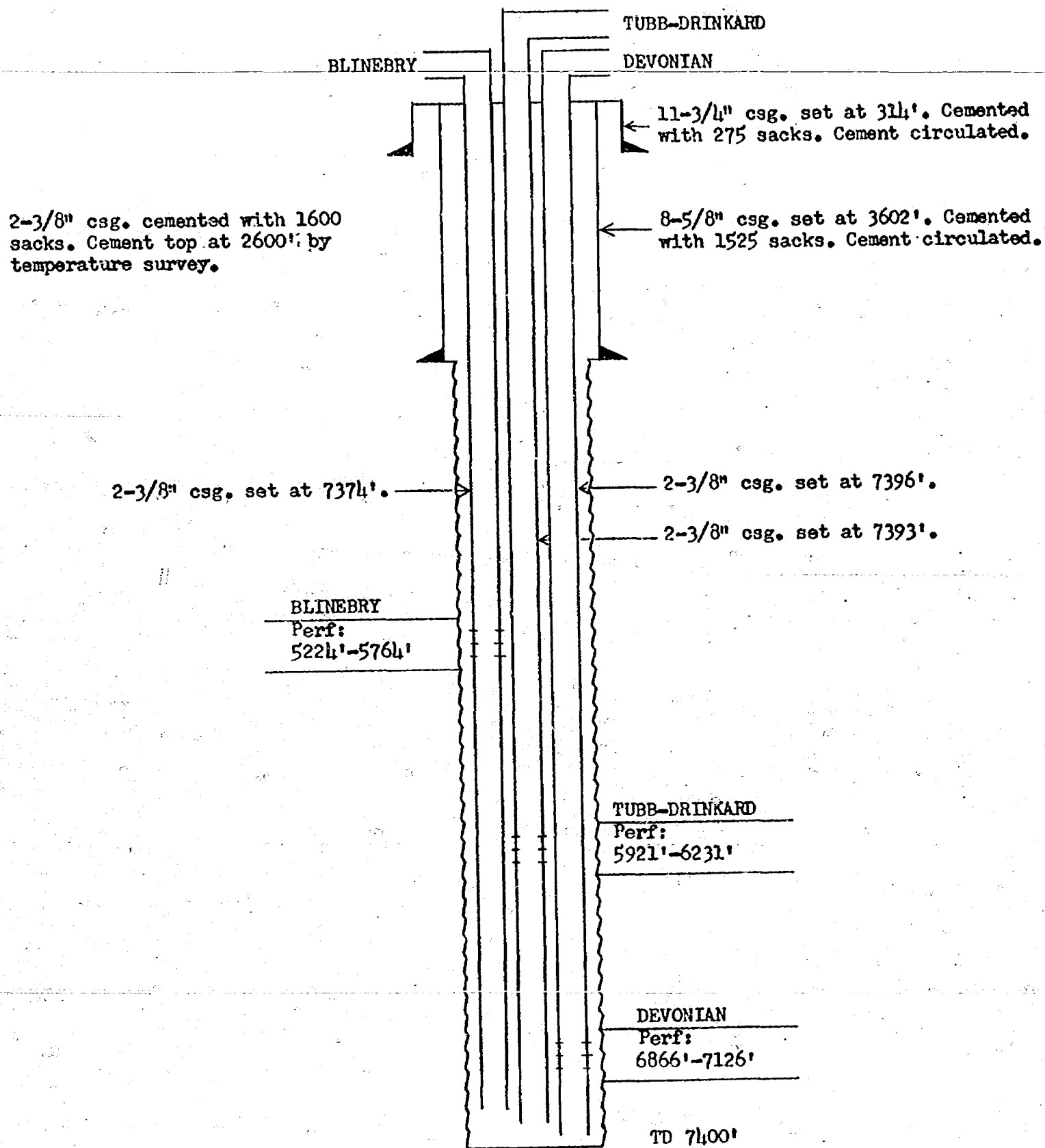
OFFSET OPERATORS

Amerada Hess Corporation
P. O. Box 591
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P. O. Box 1509
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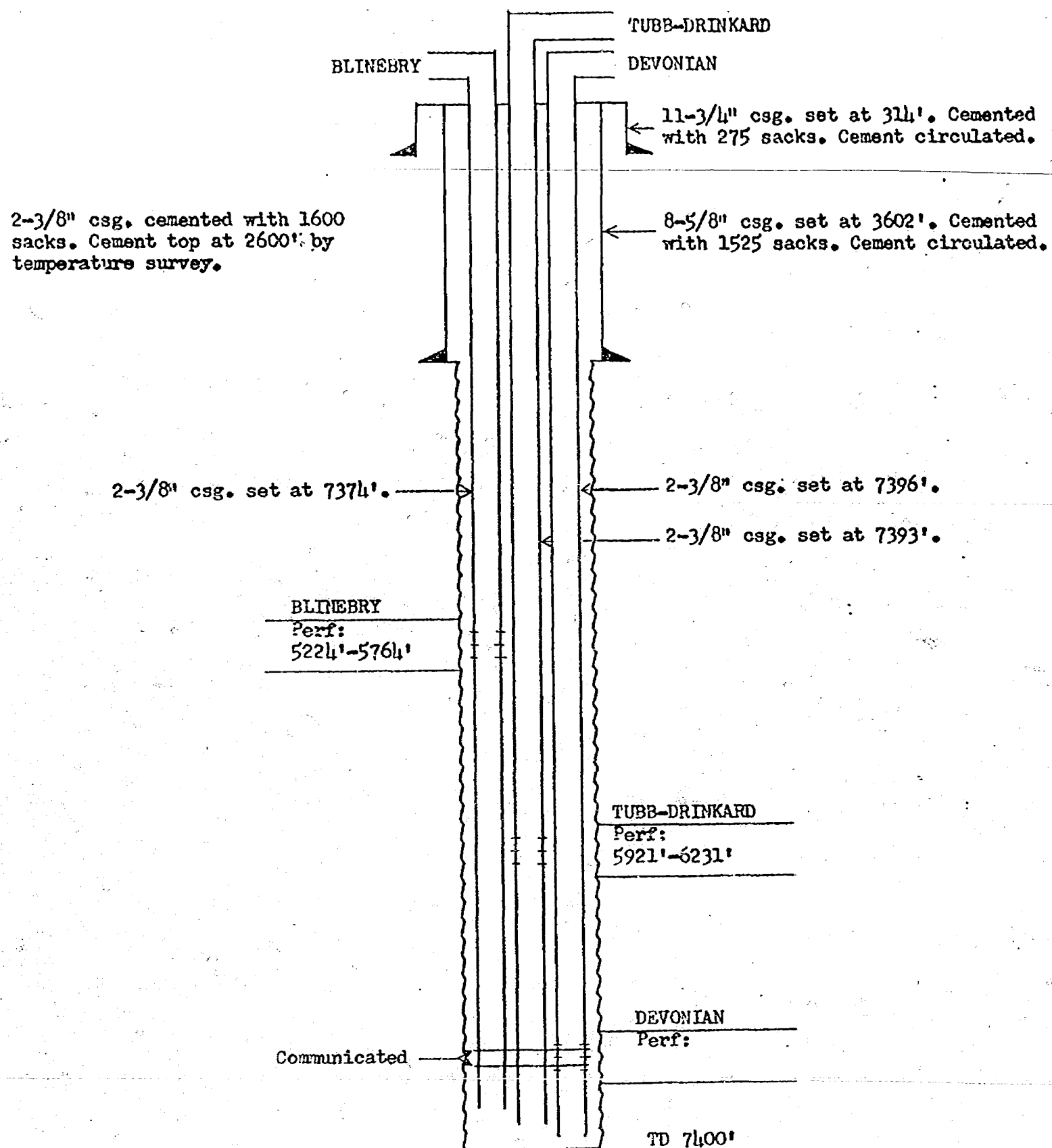
Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240

Case 5500



Present Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75



Proposed Completion
G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS (BLINEBRY, TUBB-DRINKARD AND
NORTH DEVONIAN) POOLS
LEA COUNTY, NEW MEXICO

JBS 5-13-75

OIL PRODUCTION
BBLS/DAY

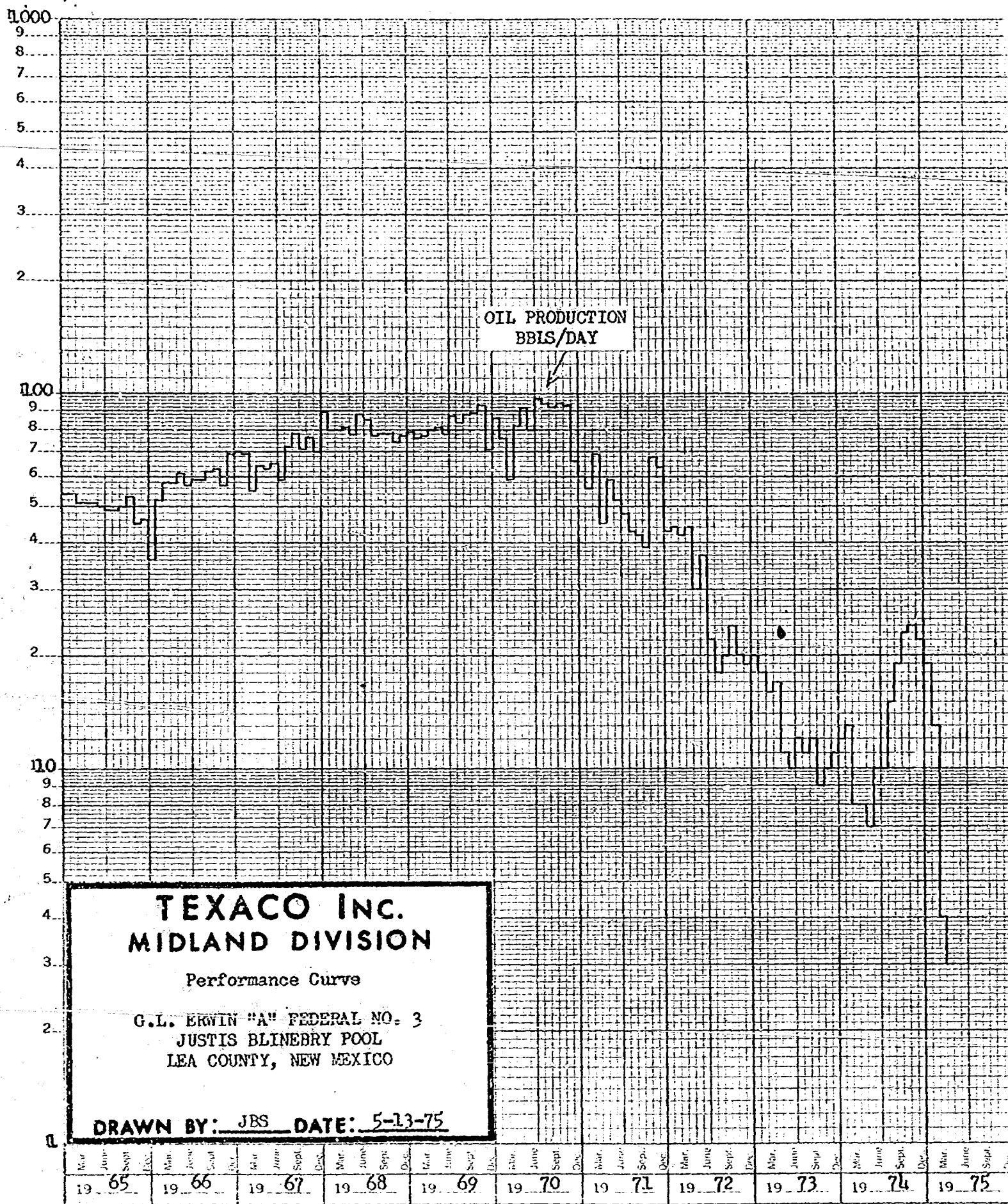
TEXACO INC.
MIDLAND DIVISION

Performance Curve

G.L. ERWIN "A" FEDERAL NO. 3
JUSTIS TUBB-DRINKARD POOL
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-13-75

Case 5500



R-37-E



NJC	NORTH	JUSTIS	ELLENBURGER
NJF	"	"	FUSSELLMAN
NJM	"	"	McKEE
NJNO	"	"	MONTOTA
NJTB	"	"	TUBB-DRAKARD
NJW	"	"	WADDELL

LEGEND

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

SCALE: 0' 1000' 2000'

FMR 9-1-71

FMR 9-1-71

DRAFT

dr/

(Signature)

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. 5500

Order No. R- 5050

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

(Signature)

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 10, 1955,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of June, 1955, 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 "A" Federal Well No. 3, located in Unit M of
Section 35, Township 24 South, Range 37 East, NMPM, Justis Field,
Lea County, New Mexico.

(3) That the applicant seeks authority to commingle Blinebry, Tubb-Drinkard and Devonian production within 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 *expected* to be capable of low marginal production only.

(7) 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.

(8) 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.

(9) 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.

(10) That in order to allocate the commingled production to each of the commingled zones in the subject well, 42 percent of the commingled production should be allocated to the Blinebry zone, 26 percent of the commingled production to the Tubb-Drinkard zone, and 32 percent of the commingled production should be allocated to the Devonian zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to commingle Blinebry, Tubb-Drinkard and Devonian production within the wellbore of the G. L. Erwin "A" Federal Well No. 3, located in Unit M of Section 35, Township 24 South, Range 37 East, NMPM, Justis Field, Lea County, New Mexico.

-3-
Case No. 5500
Order No. R-

(2) That 42 percent of the commingled ~~in~~ production shall be allocated to the Blinebry zone, 24 percent of the commingled ~~in~~ production shall be allocated to the Tubb-Drinkard zone, and 32 percent of the commingled ~~in~~ production shall be allocated to the Devonian 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.