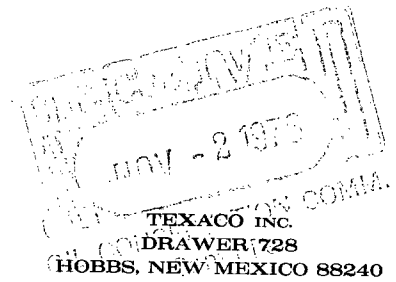




PETROLEUM PRODUCTS

November 1, 1976



DHC - 209

Due - 11/22/76

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

RE: WELLBORE COMMINGLING
New Mexico "O" State (NCT-1) No. 18
✓ Vacuum (Wolfcamp and Upper Penn) ✓
Lea County, New Mexico

ATTENTION: MR. JOE D. RAMEY

Gentlemen:

TEXACO INC. requests administrative approval to commingle in the wellbore oil production from the Vacuum Wolfcamp and Vacuum Upper Penn Pools in Well No. 18 on the New Mexico "O" State (NCT-1) Lease, located in Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

MC-1394 The subject well is a triple tubingless completion in the Vacuum (Wolfcamp, Penn and North Abo) Pools. Remedial work was recently performed to set a cast iron bridge plug above the North Abo perforations and test the Glorieta interval from 6028' to 6206'. The Glorieta proved to be non-productive and was shut in. The well is currently flowing from the Wolfcamp and Penn Pools. After commingling the well will remain as flowing. The Wolfcamp and Penn zones are classified as oil zones and produce water below the specified limits. The fluids from these two reservoirs are commingled on surface and are known to be compatible. Ownership of the minerals in both zones is common, and the value of the commingled fluids is not less than the total value of the fluids if they were marketed separately. Secondary operations will not be jeopardized by approval of this application.

A data sheet is attached listing all required data for the two reservoirs that are productive in the well. Also attached is a production decline curve for each zone, a sketch of the present and proposed completion, bottom hole pressure surveys, location plat, C-116 and a list of offset operators.

A copy of this application is being mailed to each of the offset operators shown on the attached list.

Yours very truly,

J. V. Gannon
J. V. Gannon

District Superintendent

Bottom pf 10,140

max prod - 80 BOPD

JBS:las
Attachments
NMOCC - Hobbs, New Mexico
Offset Operators

WC -	4280	90%	195	meq	90%
Penn -	580	10%	21	meq	10%
	47		206		

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

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

Lease and Well No: New Mexico "0" State (NCT-1) No. 18

Location: Unit H ; 1880 Feet from the North Line and
560 Feet from East Line of Section 36 ;
Township 17-South , Range 34-East ; Lea County.

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Vacuum Wolfcamp</u>	<u>Vacuum Upper Penn</u>
Producing Method	<u>Flow</u>	<u>Flow</u>
BHP	<u>1025</u>	<u>1066</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>38.2</u>	<u>38.2</u>
GOR Limit	<u>2000</u>	<u>2000</u>
Completion Interval	<u>9951'-9959'</u>	<u>10,130'-10,140'</u>
Current Test Date	<u>9-18-76</u>	<u>9-20-76</u>
Oil	<u>42</u>	<u>5</u>
Water	<u>5</u>	<u>6</u>
GOR	<u>4400</u>	<u>4100</u>
Selling Price of Crude-\$/BBL.	<u>5.84</u>	<u>5.84</u>
Daily Income - \$/Day	<u>245.28</u>	<u>29.20</u>

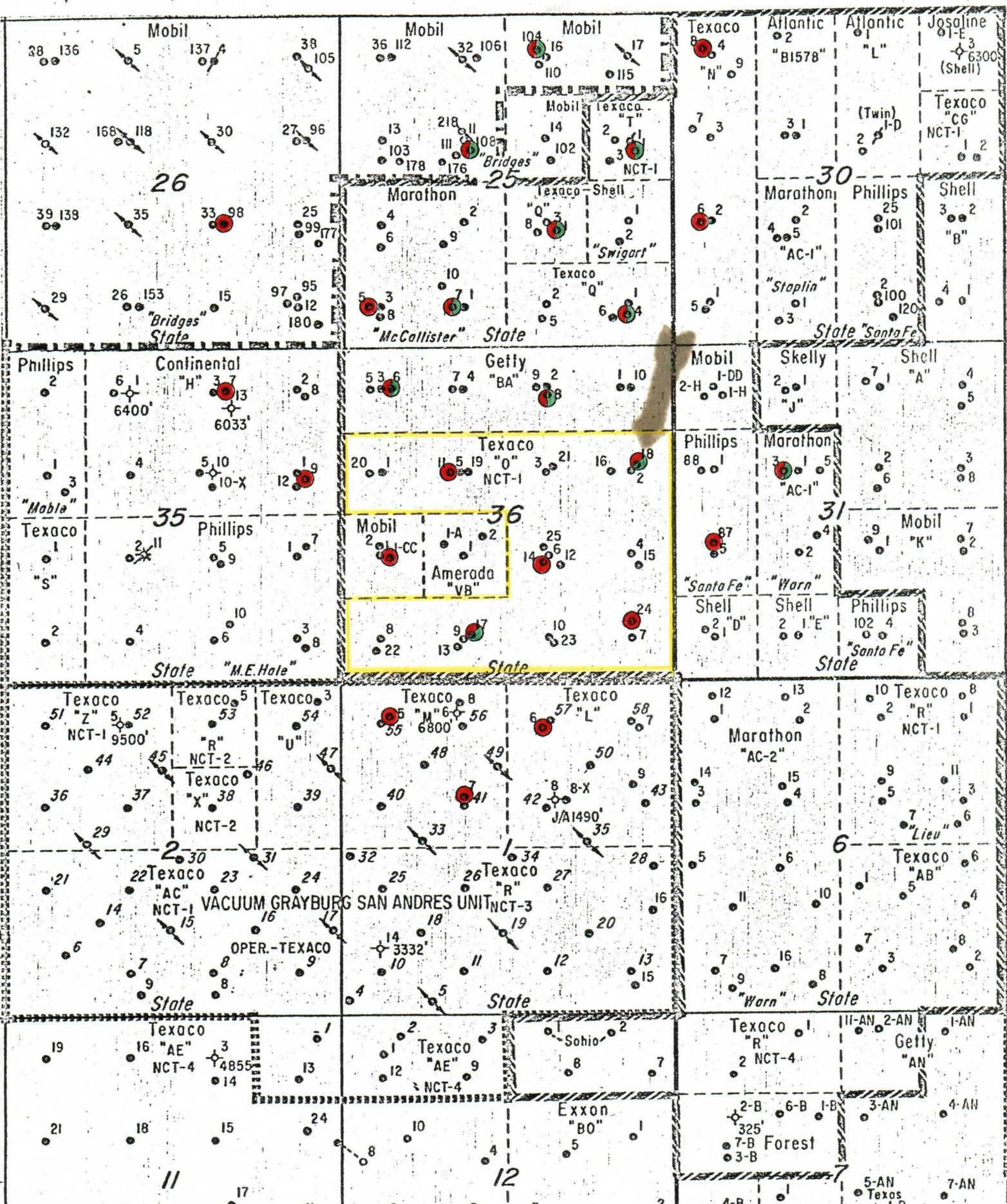
COMMINGLED DATA:

Gravity of Commingled Crude 38.2

Selling Price of Commingled Crude - \$/BBL. 5.84

Daily Income - \$/Day 274.48

Net (Gain) ~~(Loss)~~ From Wellbore Commingling - \$/Day 29.20 (Production increase of 5 BOP based on current producing rates.



● VACUUM WOLF CAMP

● VACUUM UPPER PENN

The Jarrel Company

POST OFFICE BOX 1654 PHONES (505) 393-3813 - 393-5396
HOBBS, NEW MEXICO 88240

Well Testing Division

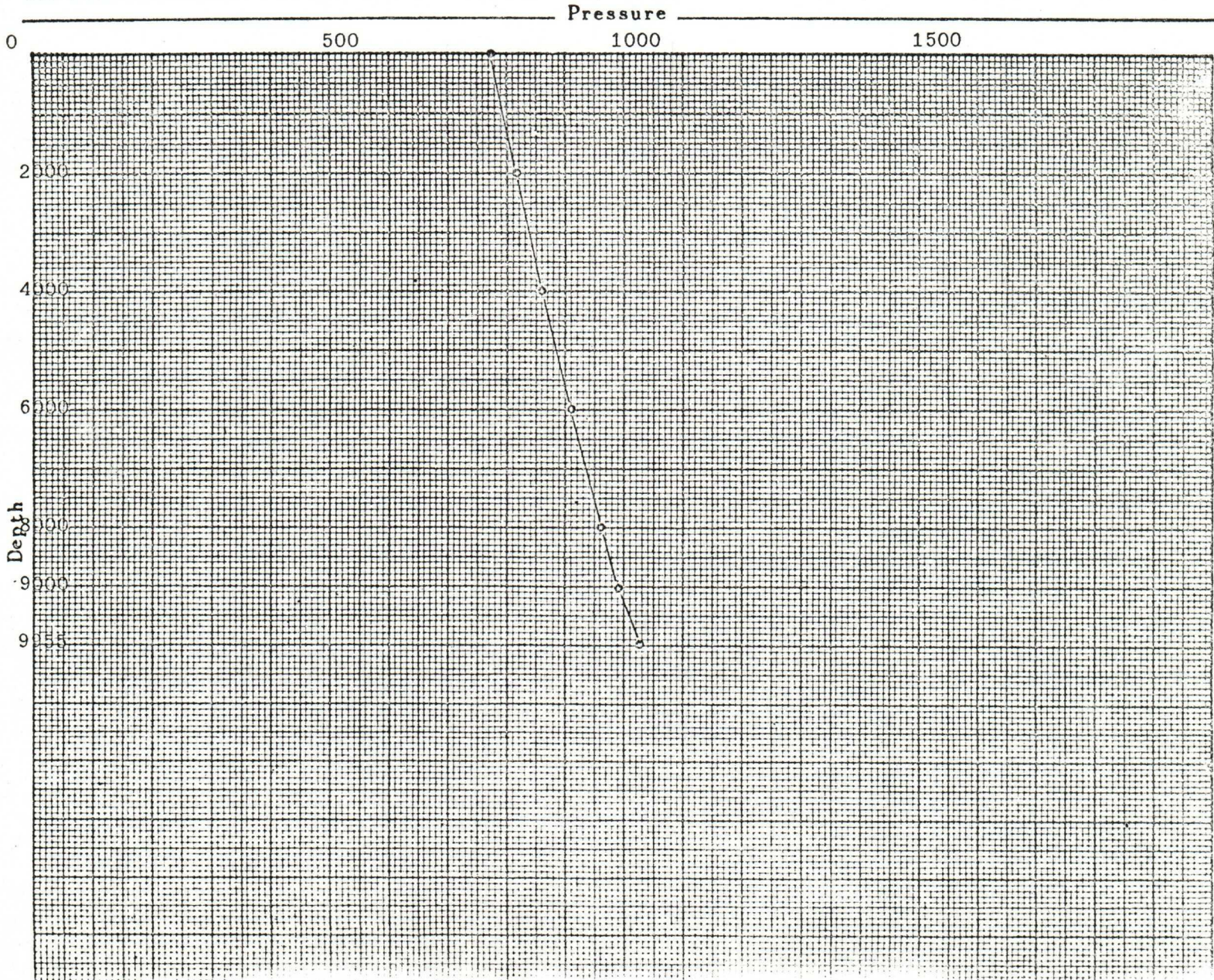
Instrument Service

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco, Inc.
FIELD Vacuum FORMATION Wolfcamp
LEASE New Mexico 0 NCT-1 State WELL No. 18
COUNTY Lea STATE New Mexico
DATE October 15, 1976 TIME 11:00 AM
Status Shut In Test depth 9955'
Time S. I. 24 Hours Last test date --
Tub Pres. 773 BHP last test --
Cas. Pres. Triple BHP change --
Elev. 4007' DF-18 Fluid top None
Datum (-5948) ** Water top None
Temp. @ -136°F Run by Dee Jarrel
Cal. No. A2419N Chart No. 2

Depth	Pressure	Gradient
0	773	--
2000	816	.022
4000	860	.022
6000	910	.025
8000	962	.026
9000	992	.030
9955 (-5948)	1025 **	.035

** MIDPOINT OF CASING PERFORATIONS



The Jarrel Company

POST OFFICE BOX 1654 ··· PHONES (505) 393-3813 · 393-5396
HOBBS, NEW MEXICO 88240

Well Testing Division

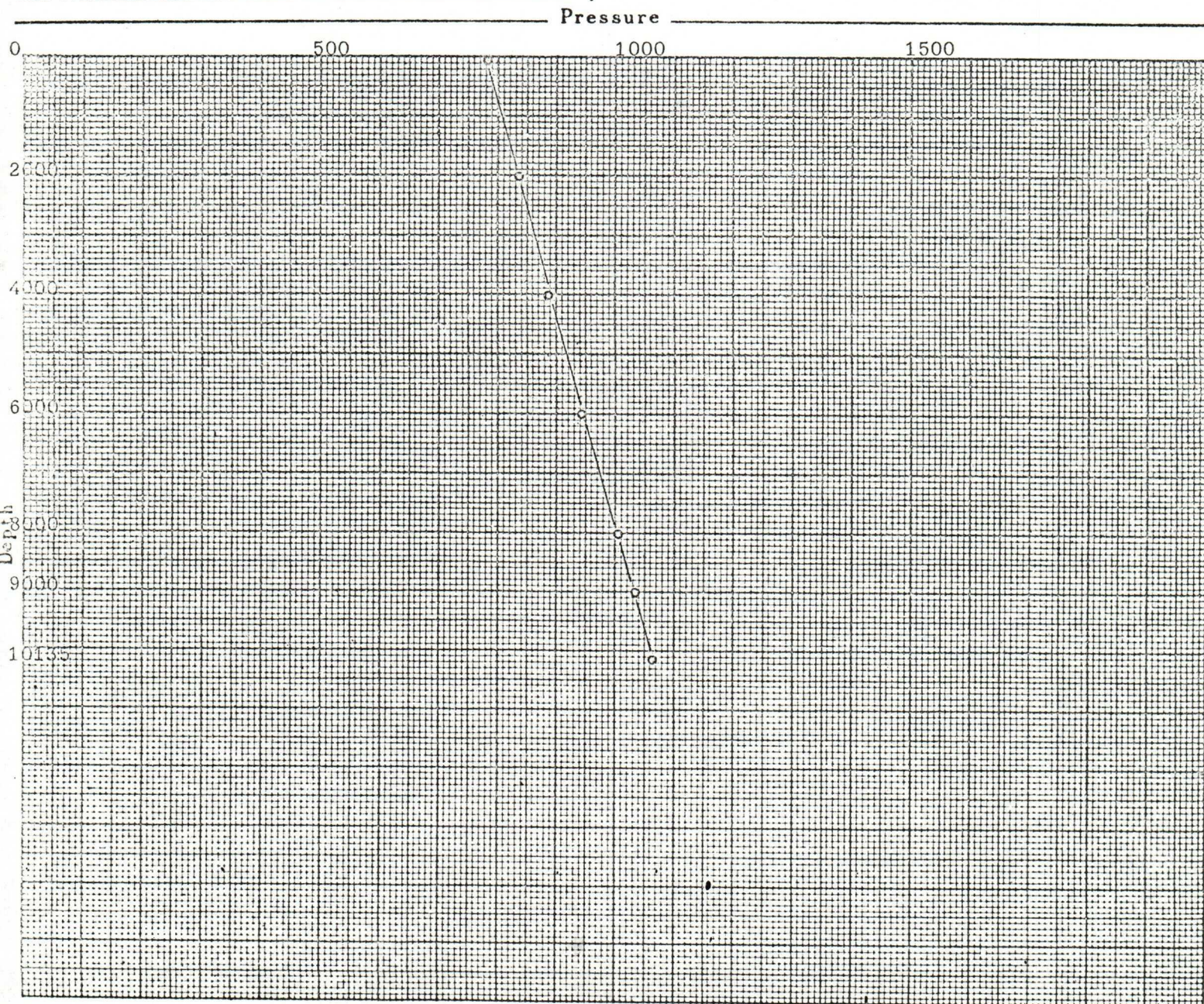
Instrument Service

BOTTOM HOLE PRESSURE RECORD

OPERATOR Twxaco, Inc.
FIELD Vacuum FORMATION Penn
LEASE New Mexico 0 NCT-1 State WELL No. 18
COUNTY Lea STATE New Mexico
DATE October 15, 1976 TIME 12:00 Noon
Status Shut In Test depth 10135'
Time S. I. 24 Hours Last test date --
Tub Pres. 783 BHP last test --
Gas. Pres. Triple BHP change --
Elev. 4007' DE-18 Fluid top None
Datum (-6128) ** Water top None
Temp. @ 142°F Run by Weaver
Cal. No. A33196N Chart No. 2

Depth	Pressure	Gradient
0	783	---
2000	833	.025
4000	889	.028
6000	945	.028
8000	1003	.029
9000	1032	.029
10135 (-6128)	1066 **	.030

** MIDPOINT OF CASING PERFORATIONS



OFFSET OPERATORS

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

Mobil Oil Corp.
P. O. Box 1800
Hobbs, New Mexico 88240

Phillips Petroleum Co.
Phillips Building
Odessa, Texas 79760

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

Marathon Oil Co.
P. O. Box 2409
Hobbs, New Mexico 88240

Continental Oil Co.
P. O. Box 460
Hobbs, New Mexico 88240

Amerada Hess Corp.
Drawer 817
Seminole, Texas 79360

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 ☐ Completion ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	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.
N.M. "0" State (NCT-1)	18 -	H	36	17-S	34-E										
<u>Vacuum Wolfcamp</u>						9-18-76	F 32/64	156	50	24	5	38.2	42	184.8	4400
<u>Vacuum (Upper Penn)</u>						9-20-76	F 2"	740	6	24	6	38.2	5	20.5	4100

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)

October 22, 1976

(Date)

2-7/8" csg. cemented with
2200 sacks. Cement top at
5817'.

13-3/8" csg. set at 1555'. Cemented
with 1200 sacks. Cement circulated.

9-5/8" csg. set at 4796'. Cemented
with 1700 sacks. Calc. cmt. top at
1400'.

2-7/8" csg. set at 10,801'.

2-7/8" csg. set at 11,508'.

2-7/8" csg. set at 11,508'.

GLORIETA

Perf: 6028'-

6206' (SHUT IN)

CIBP at 6600'.

ABO

Perf: 9236'-

9290' (ABANDONED)

WOLFCAMP

Perf: 9951'-

9959'

PENN

Perf: 10,130'-

10,140'

TD 11,510'

Present Completion

TEXACO INC.

N.M. "O" ST. (NCT-1) NO. 18

VACUUM (ABO NORTH, WOLFCAMP, PENN) POOLS

LEA COUNTY, NEW MEXICO

JBS 10-27-76

2-7/8" csg. cemented with
2200 sacks. Cement top at
5817'.

13-3/8" csg. set at 1555'. Cemented
with 1200 sacks. Cement circulated.

9-5/8" csg. set at 4796'. Cemented
with 1700 sacks. Calc. cmt. top at
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Perf: 6028'-

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CIBP at 6600'.

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WOLFCAMP

Perf: 9951'-

9959'

PENN

Perf: 10,130'-

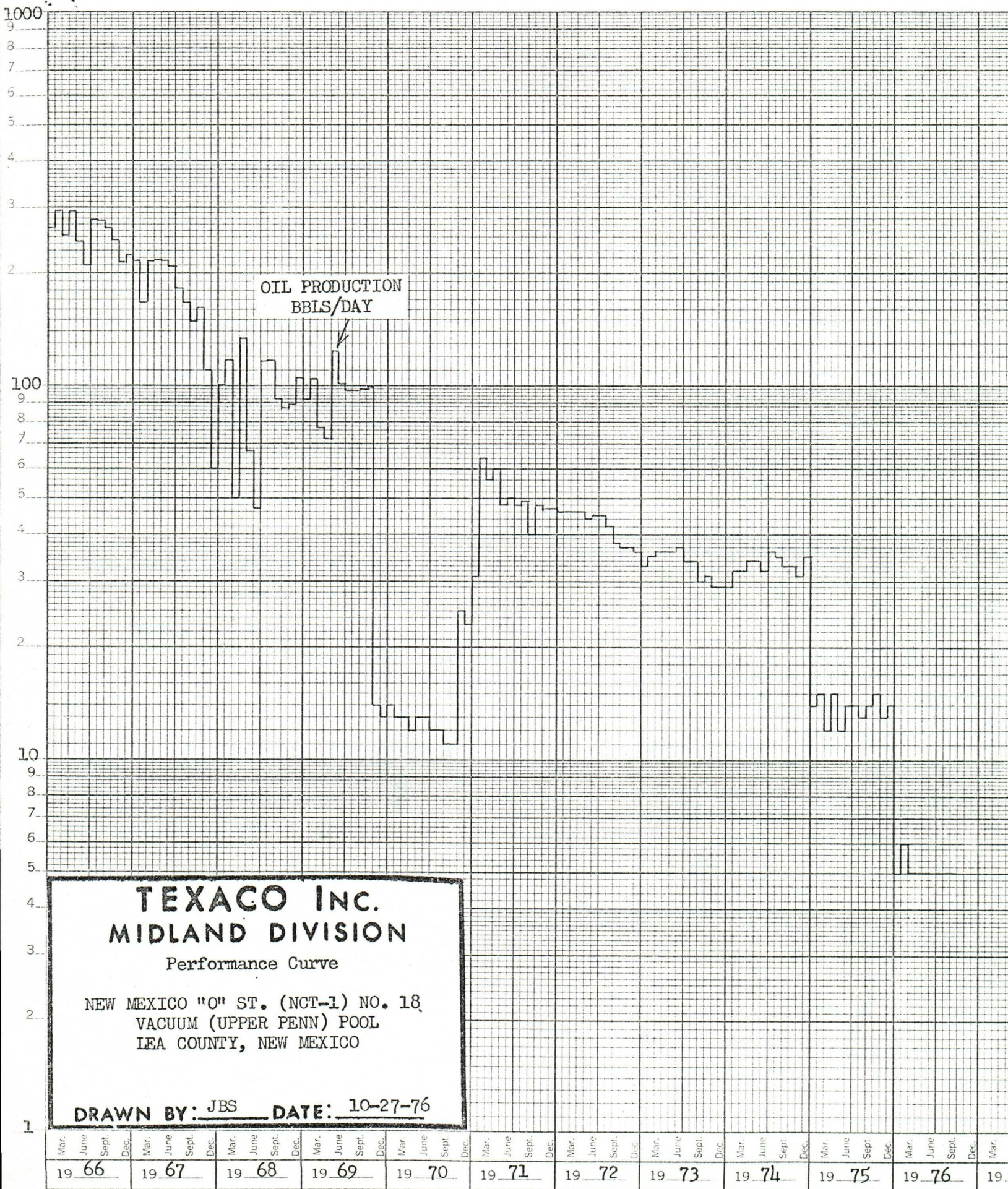
10,140'

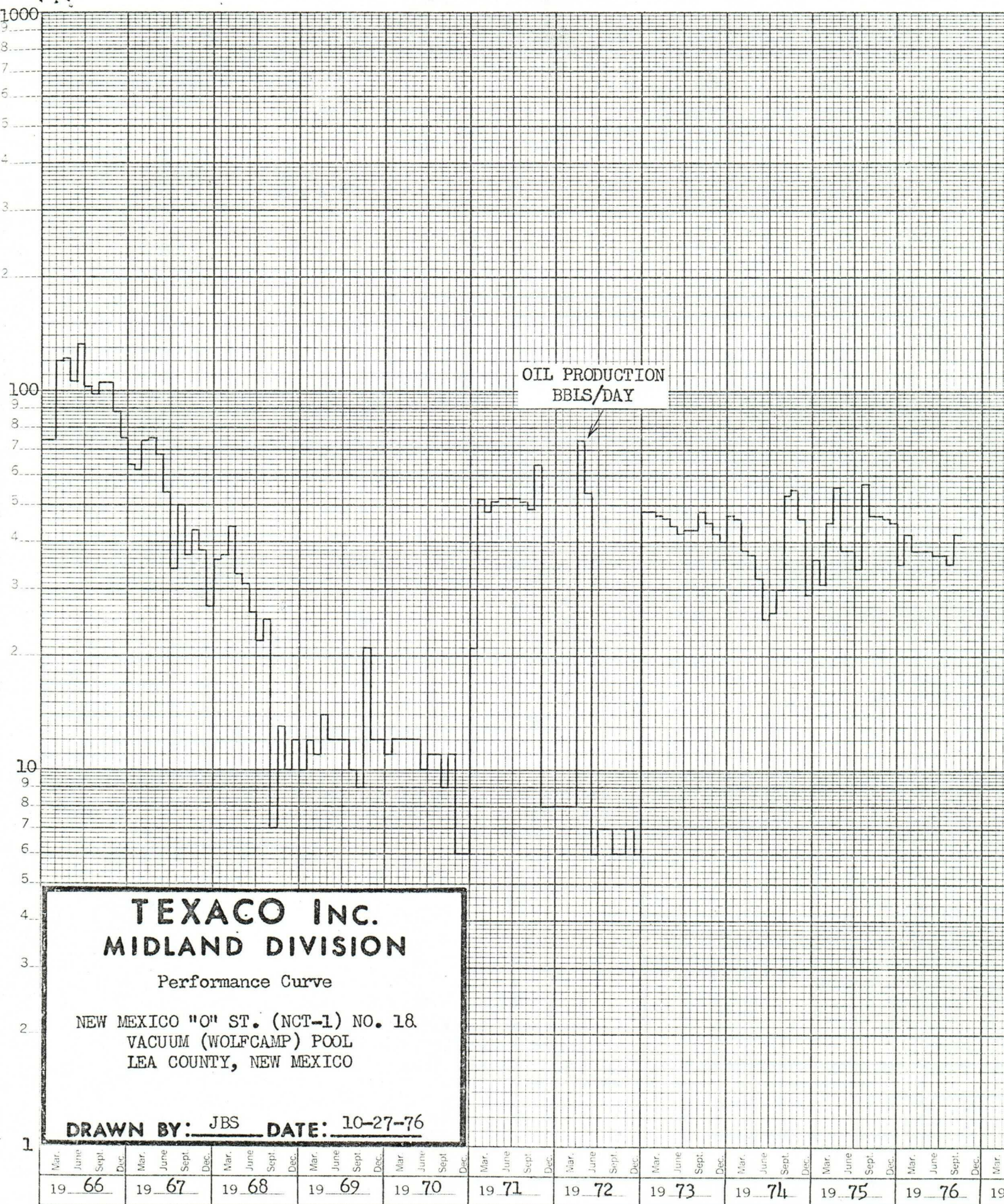
TD 11,510'

Proposed Completion
TEXACO INC.

N.M. "O" ST. (NCT-1) NO. 18
VACUUM (WOLFCAMP & PENN) POOLS
LEA COUNTY, NEW MEXICO

JBS 10-27-76



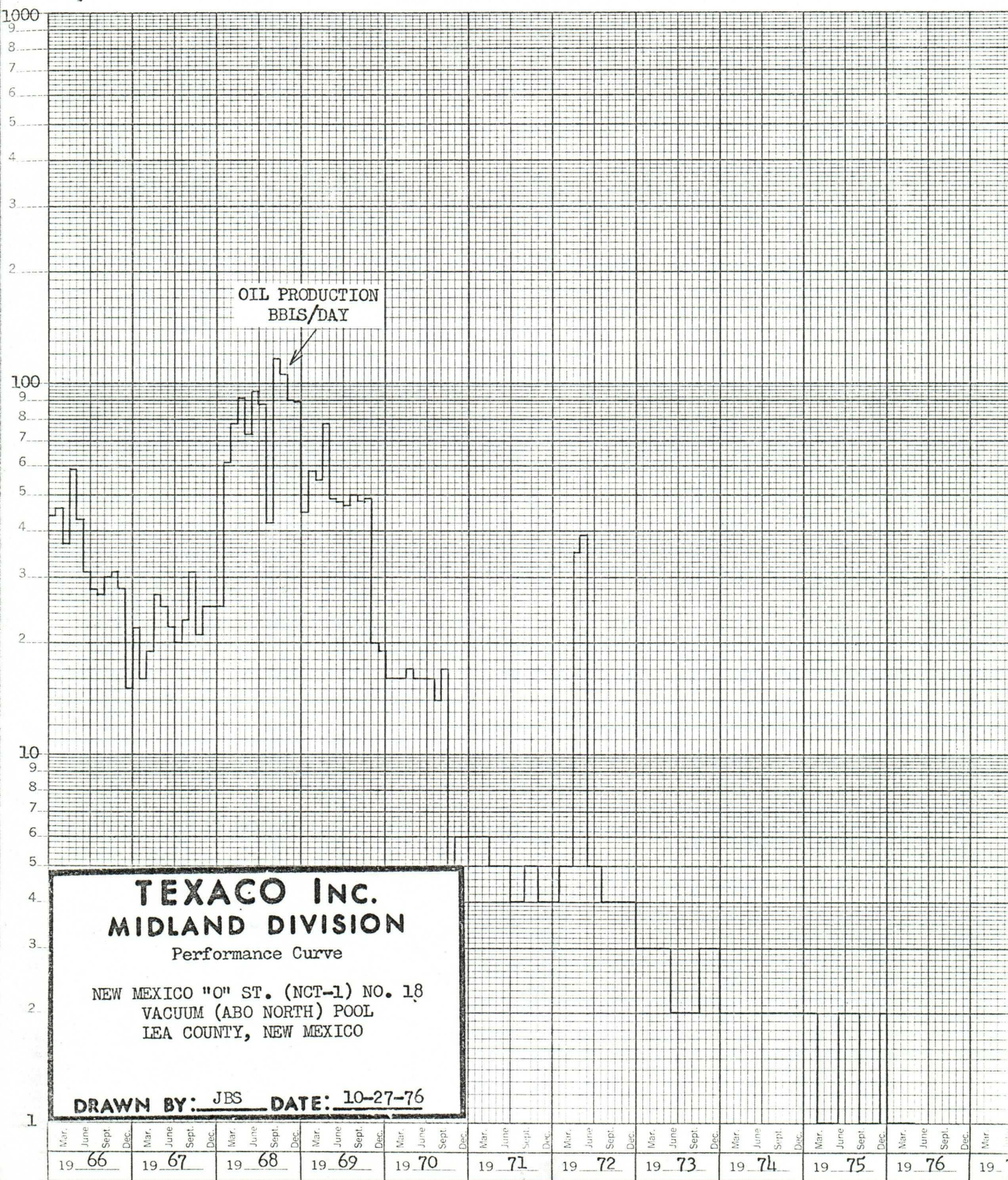


TEXACO INC. MIDLAND DIVISION

Performance Curve

NEW MEXICO "O" ST. (NCT-1) NO. 18
VACUUM (WOLFCAMP) POOL
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 10-27-76

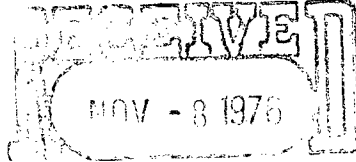


OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE November 3, 1976

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



OIL CONSERVATION COMM.
Santa Fe

Gentlemen:

I have examined the application dated _____
for the Texaco Inc. New Mexico "O" St. NCT-1 #18-H 36-17-34
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Jerry Lytle". The signature is written in dark ink and is positioned below the "Yours very truly," text.