

TEXACO
U.S.A.
OIL CONSERVATION DIVISION OF TEXACO INC.
P. O. BOX 728
SANTA FE HOBBS, NEW MEXICO 88240
(505) 393-7191

April 19, 1983

DOWNHOLE COMMINGLING

A. H. BLINEBRY FEDERAL NCT-2 NO. 5
UNIT M, SECTION 29, T-22-S, R-38-E
BLINEBRY, TUBB AND DRINKARD FIELDS
LEA COUNTY, NEW MEXICO

U. S. Department of the Interior
Mineral Management Service
P. O. Box 1857
Roswell, New Mexico, 88201

Case 7879

Attention: Mr. Armando Lopez

Gentlemen:

Texaco Inc. requests approval to downhole commingle production from the Blinebry, Tubb and Drinkard Fields in the wellbore of A. H. Blinebry Federal NCT-2 Well No. 5.

Allocation of production to these zones is to be as follows:

- Blinebry - 20% Oil, 1% Gas
- Tubb - 34% Oil, 36% Gas
- Drinkard - 46% Oil, 63% Gas

Texaco has requested that the New Mexico Oil Conservation Division schedule an Examiner Hearing to consider this matter. A complete copy of this request is attached.

Your early consideration of this matter will be appreciated.

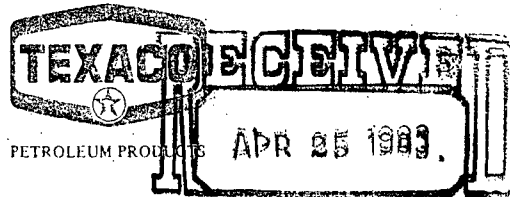
Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-UNITED STATES

V. G. Johnston
Assistant District Manager

JAH:JEB

Attachments



OIL CONSERVATION DIVISION
SANTA FE

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 728
HOBBS, NEW MEXICO 88240
(505) 393-7191

April 19, 1983

DOWNHOLE COMMINGLING

A. H. BLINEBRY FEDERAL NCT-2 NO. 5
UNIT M, SECTION 29, T-22-S, R-38-E
BLINEBRY, TUBB AND DRINKARD FIELDS
LEA COUNTY, NEW MEXICO

State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico, 87501

Attention: Mr. Joe D. Ramey
Secretary-Director

Gentlemen:

Texaco Inc. requests that an Examiner Hearing be scheduled to consider Texaco's request for an exception to Rule 303-A to allow downhole commingling of Blinebry, Tubb and Drinkard production in the wellbore of the A. H. Blinebry Federal NCT-2 Well No. 5.

The downhole commingling is necessary to permit the production of the Blinebry zone which ceased to produce in 1980. These zones have been surface commingled and downhole commingled on this lease and on other leases in the area and no incompatibilities between the fluids have been found. Further, the commingled production will be artificially lifted to minimize the possibility of crossflow between zones.

Ownership of all three zones (including Working Interest, Royalty Interest and Overriding Royalty Interest) is common.

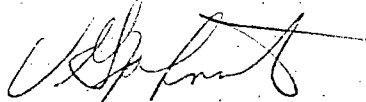
Attached are supporting documents and data for this request.

April 19, 1983

By copy of this letter, the United States Department of the Interior-Mineral Management Service and all Offset Operators have been notified of this request.

Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-UNITED STATES



V. G. Johnston
Assistant District Manager

JAH:JEB

Attachments

Department of Energy & Minerals
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico, 88240

U. S. Department of the Interior
Mineral Management Service
P. O. Box 1857
Roswell, New Mexico, 88201

White, Koch, Kelly & McCarthy
Attention: Mr. Ken Bateman
P. O. Box 787
Santa Fe, New Mexico, 87501

Gulf Oil Exploration & Production Company
P. O. Box 670
Hobbs, New Mexico, 88240

Amoco Production Company, USA
P. O. Box 68
Hobbs, New Mexico, 88240

Summit Energy, Inc.
112 North First
Artesia, New Mexico, 88210

GAS-OIL RATIO TESTS

Operator: **Texaco Inc.** Pool: **Rubb, Drinkard** County: **Lea**

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

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	CHOKESIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS-OIL RATIO CU.FT/BSL	
		U	S	T	R							WATER BBL'S.	GRAV. OIL BBL'S.	OIL BBL'S.		GAS M.C.F.
A. H. Blinebry Federal NCT-2	5	M	29	22S	38E					8	24	0	--	0	160	--
												4/6/83	F	27/64	150	6
Rubb												1	36 ⁴	6	390	65,000
Drinkard																

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

During gas-oil ratio tests, 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 allowances when authorized by the Division.

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 Division in accordance with Rule 331 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 Manager
(Title)
April 19, 1983

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

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

Lease and Well No.: A. H. Blinebry Federal NCT-2, Well No. 5

Location: Unit M, 660' FSL & 660' FWL, Section 29, T-22-S, R-38-E
Lea County, New Mexico

WELL DATA

	<u>Upper Pool</u>	<u>Middle Pool</u>	<u>Lower Pool</u>
Name of Pool	Blinebry (Oil)	Tubb (Gas)	Drinkard (Oil)
Producing Method	Shut-in	Flowing	Flowing
BHP	500 (Est.)	547	426
Type Crude	Sweet	N/A	Sweet
Gravity	39.6*	N/A*	36.4*
GOR Limit	428 MCFD	284 MCFD	852 MCFD
Completion Interval	5554-5932	6108-6300	6349-6566
Current Test Date	1/80	4/6/83	4/6/83
Oil	5	0	6
Water	4	0	1
GOR	2420	160 MCFD	65,000
Selling Price of Crude - \$/BBL.			
Daily Income - \$/Day			

COMMINGLED DATA:

Gravity of Commingled Crude 36.4*

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

Daily Income - \$/Day _____

Net (Gain) (Loss) from Wellbore Commingling - \$/Day _____
based on current producing rates.

* These zones are currently commingled on the surface, therefore, there will be no change in the value of the crude.

A. H. BLINEBRY FEDERAL NCT-2 WELL NO. 5
PROPOSED ALLOCATION FORMULA

<u>Pool</u>	<u>Blinebry</u>	<u>Tubb</u>	<u>Drinkard</u>
Anticipated Oil Prod.-BOPD	5	4	6
Anticipated Gas Prod.-MCFD	12	200	390
Decline Rate-%	33	16	18
Anticipated Life-Years	15	15	15
% Oil Allocation	20	34	46
% Gas Allocation	1	36	63

This recommended allocation is based on total recoveries over the well's producing life with the initial producing rates for each zone as shown. Prior to downhole commingling, Texaco will open and separately test the Blinebry and Tubb. Should these tests indicate the need for an allocation formula different from that shown, Texaco will recommend a new allocation at that time.

Operator: Texaco USA
 Address: Box 728
 Hobbs, New Mexico 88240

Pool: Tubb
 Producing Formation: Tubb

Oil Gradient: -
 Water Gradient: -
 Gas Gradient: -

County: Lea
 Datum Plane: (-2779) *

Date: 4/4/83

LEASE	WELL NO.	LOCATION			ELEV.	OIL OR GAS (1) (2)	DATE TESTED	2 1/2 HOUR PRESS.	3000' IN TOC. PRESS.	BOMB TEST DATA			SONIC INSTRUMENT TEST DATA*				PRESS. AT DATUM		
		U	S	T						R	TEST DEPTH	B.H. TEMP. °F	OB. SERVED PRESS.	PROD. TEST (BBL/S./DAY)	LIQUID LEVEL	LIQUID GRAD. TEST 2 1/2 FT.		WT. OF LIQUID COL. PSI	WT. OF GAS COL. PSI
A.H. Blinbry Federal NCT-2	5	M	29	22	38	3390 DF	0	3/30/83	49.5	460	6050	102	545	* MIDPOINT OF CASING PERFORATIONS				.018	547

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. SEE RULE 302.

* Well shall be produced at least 24 hours prior to shutting in for sonic test.

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

Jarrel Services, Inc.
 JARREL SERVICES, INC.
 (Signature)

Agent

April 4, 1983
 (Date)

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 — 393-8274

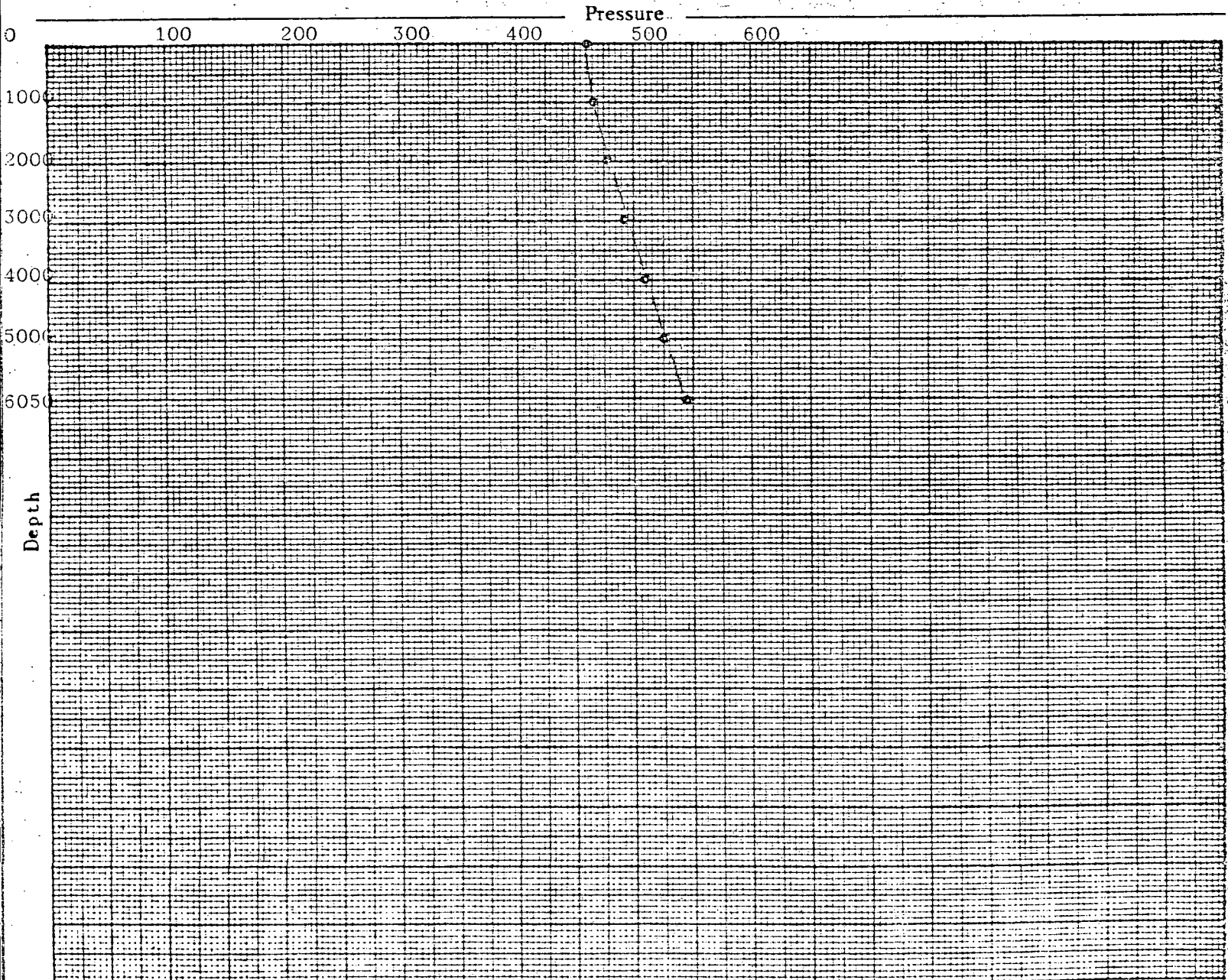
HOBBS, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco USA
 FIELD Tubb
 FORMATION Tubb
 LEASE A.H. Blinebry NCT-2 WELL #5
 COUNTY Lea STATE New Mexico
 DATE 3/30/83 TIME 11:30 AM
 Status Shut in
 Test Depth 6050'
 Time S. I. 49.5 hrs Last test date -
 Tub Pres. 460 DWT BHP last test -
 Cas. Pres. 430 DWT BHP change -
 Elev. 3390' DF Fluid top None
 Datum (-2779)** Water top None
 Temp. @ 102° F Run by JSI #13
 Cal. No. A15064N Chart No. 1

Depth	Pressure	Gradient
0	460	-
1000	464	.004
2000	478	.014
3000	493	.015
4000	509	.016
5000	526	.017
6050	545	.018
6169 (-2779)	547 * **	(.018)

* EXTRAPOLATED PRESSURE
 ** MIDPOINT OF CASING PERFORATIONS



TYPE OF REPORT - (X)
 Initial Completion
 Special
 General Survey

STATE OF NEW MEXICO
 ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
 P. O. BOX 2068
 SANTA FE, NEW MEXICO 87501

RESERVOIR PRESSURE REPORT
 Form C-124
 Revised 10-1-78

Operator: **Texaco USA** Field: **Drinkard** County: **Lea** Date: **4/4/83**

Address: **Box 728** Production Formation: **Drinkard** Oil Gradient: **-** Water Gradient: **-** Gas Gradient: **-** Bottom Pressure: **(-3068) ***

Hobbs, New Mexico 88240

LEASE	WELL NO.	LOCATION			ELEV. (ft)	DATE TESTED	OIL OR GAS (cu)	SHUT-IN TAG. PRESS.	HOAR TEST DATA			SONIC INSTRUMENT TEST DATA*			PRESS. AT DATUM			
		U	S	T					M	TEST DEPTH	B.M. TEMP. °F	OO-SERVED PRESS.	PROD. TEST (BBL./DAY)	LIQUID LEVEL		LIQUID GRAD. TEMP. °F	WT. OF LIQUID COL. PSI	WT. OF GAS COL. PSI
A.H. Blinbery Federal NCT-2	5	M	29	22	38	5390	0	3/30/83	51	360	6275	106	424				.011	426
* MIDDPOINT OF CASING PERFORATIONS																		

All depths plus or minus see level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. see RULE 302.

Well shall be produced at least 24 hours prior to shutting in for sonic test.

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

JARREL SERVICES, INC.

Agent

April 4, 1983

(Signature)

(Title)

(Date)

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 — 393-8274

HOBBS, NEW MEXICO 88240

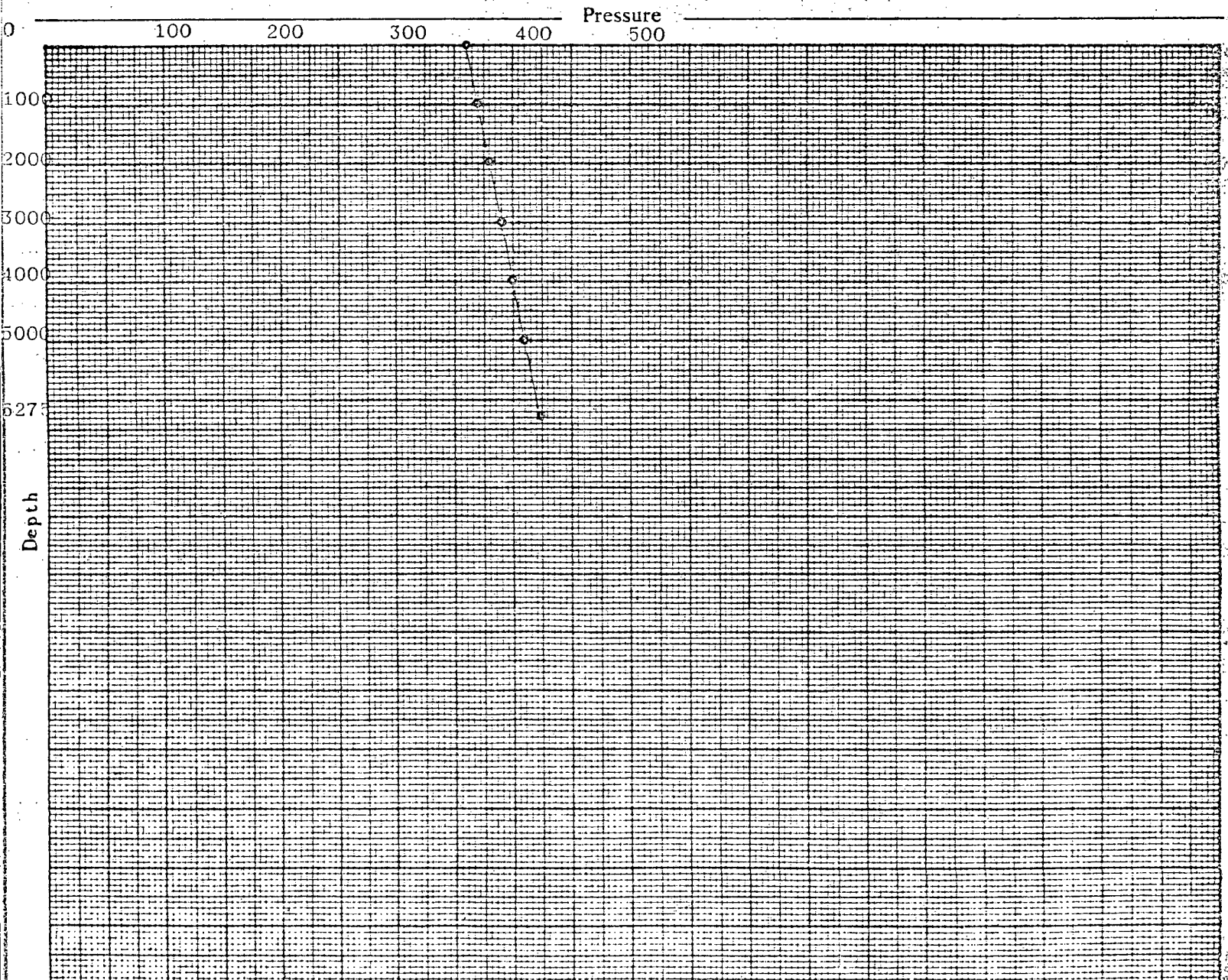
OPERATOR Texaco USA
 FIELD Drinkard
 FORMATION Drinkard
 LEASE A.H. Blinebry NCT-2 WELL #5
 COUNTY Lea STATE New Mexico
 DATE 3/30/83 TIME 1:00 PM
 Status Shut in
 Test Depth 6275'
 Time S. I. 51.0 hrs Last test date -
 Tub Pres. 360 DWT BHP last test -
 Cas. Pres. 450 DWT BHP change -
 Elev. 3390' DF Fluid top None
 Datum (-3068)** Water top None
 Temp. @ 106 F Run by JSI #13
 Cal. No. A15064N Chart No. 2

BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
0	360	-
1000	370	.010
2000	380	.010
3000	390	.010
4000	400	.010
5000	410	.010
6000	421	.011
6275	424	.011
6458 (-3068)	426 * **	(.011)

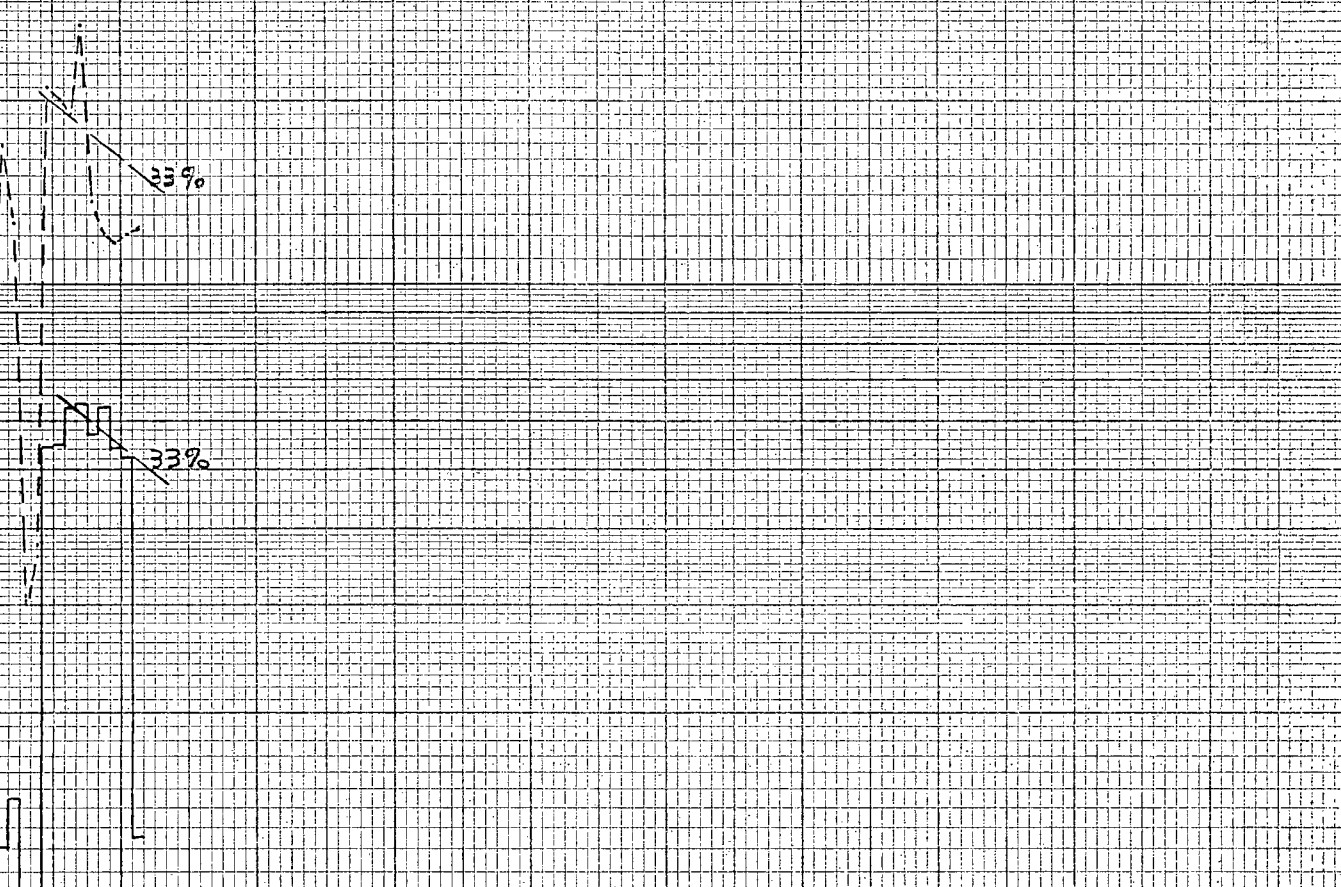
* EXTRAPOLATED PRESSURE

** MIDPOINT OF CASING PERFORATIONS

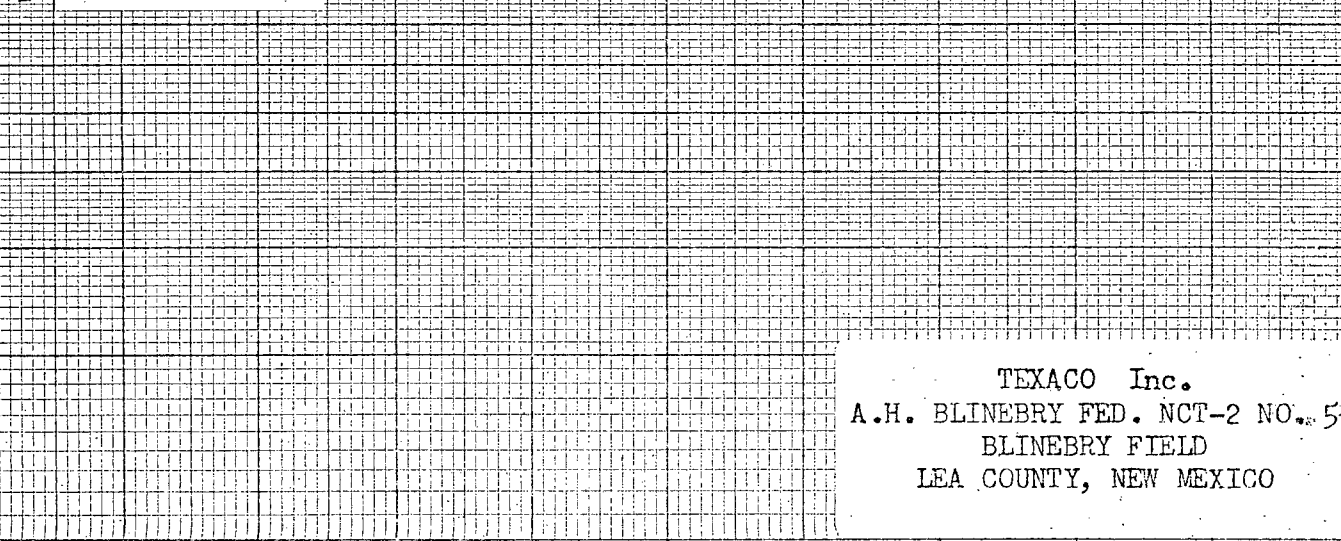


100
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8
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9
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3
2
1.0

GAS PRODUCTION
(MCF/DAY)



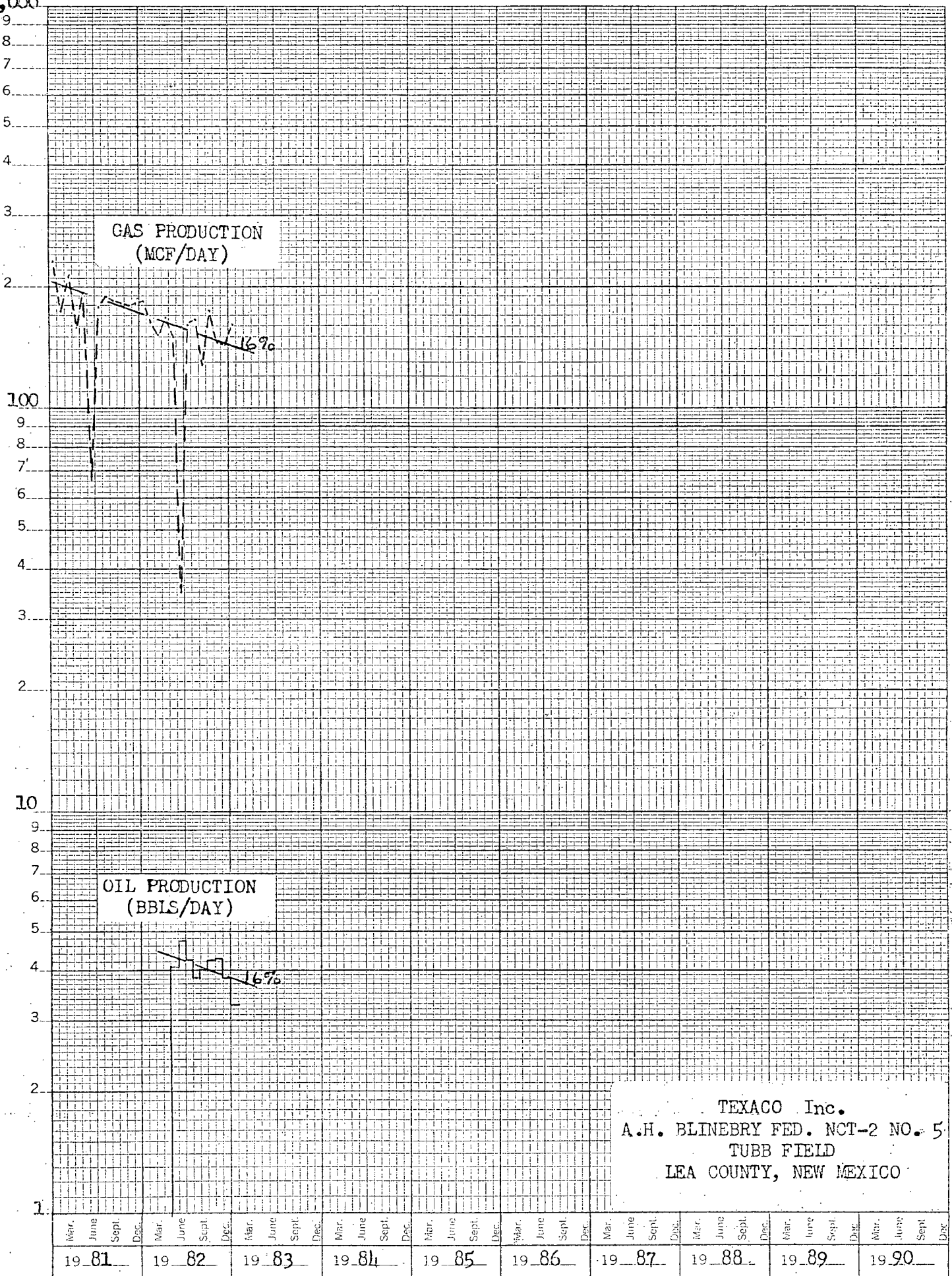
OIL PRODUCTION
(BBL/DAY)



TEXACO Inc.
A.H. BLINEBRY FED. NCT-2 NO. 5
BLINEBRY FIELD
LEA COUNTY, NEW MEXICO

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 79				19 80				19 81				19 82				19 83				19 84				19 85				19 86				19 87				19 88			

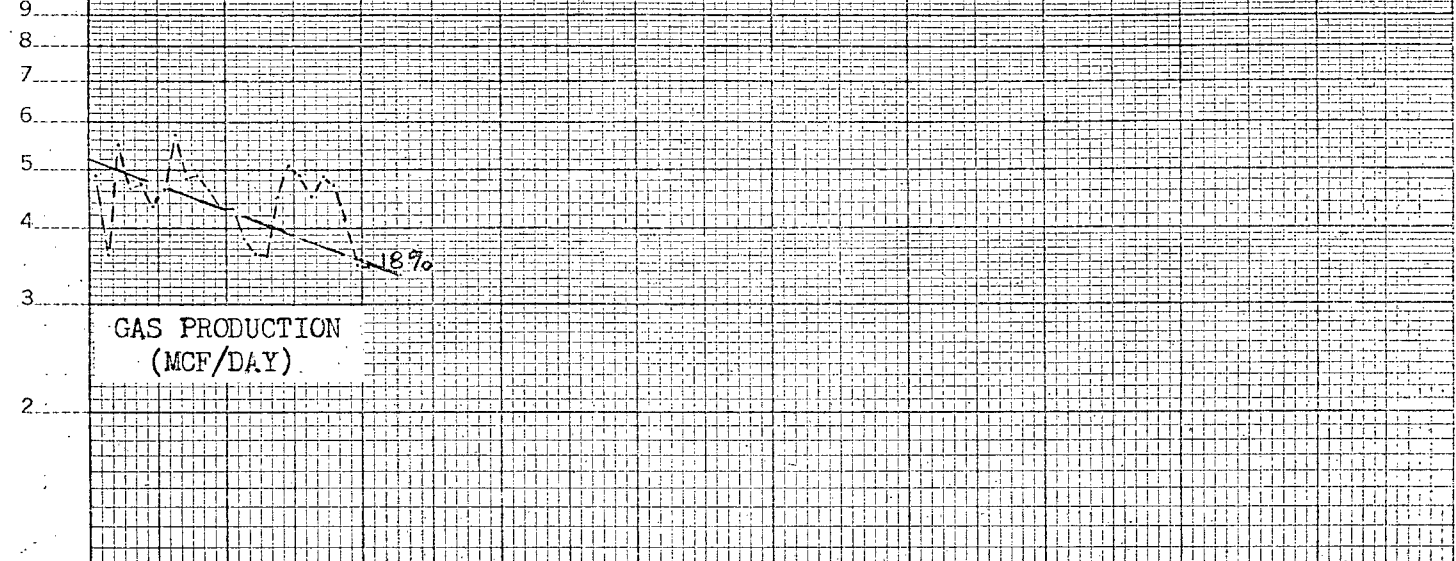
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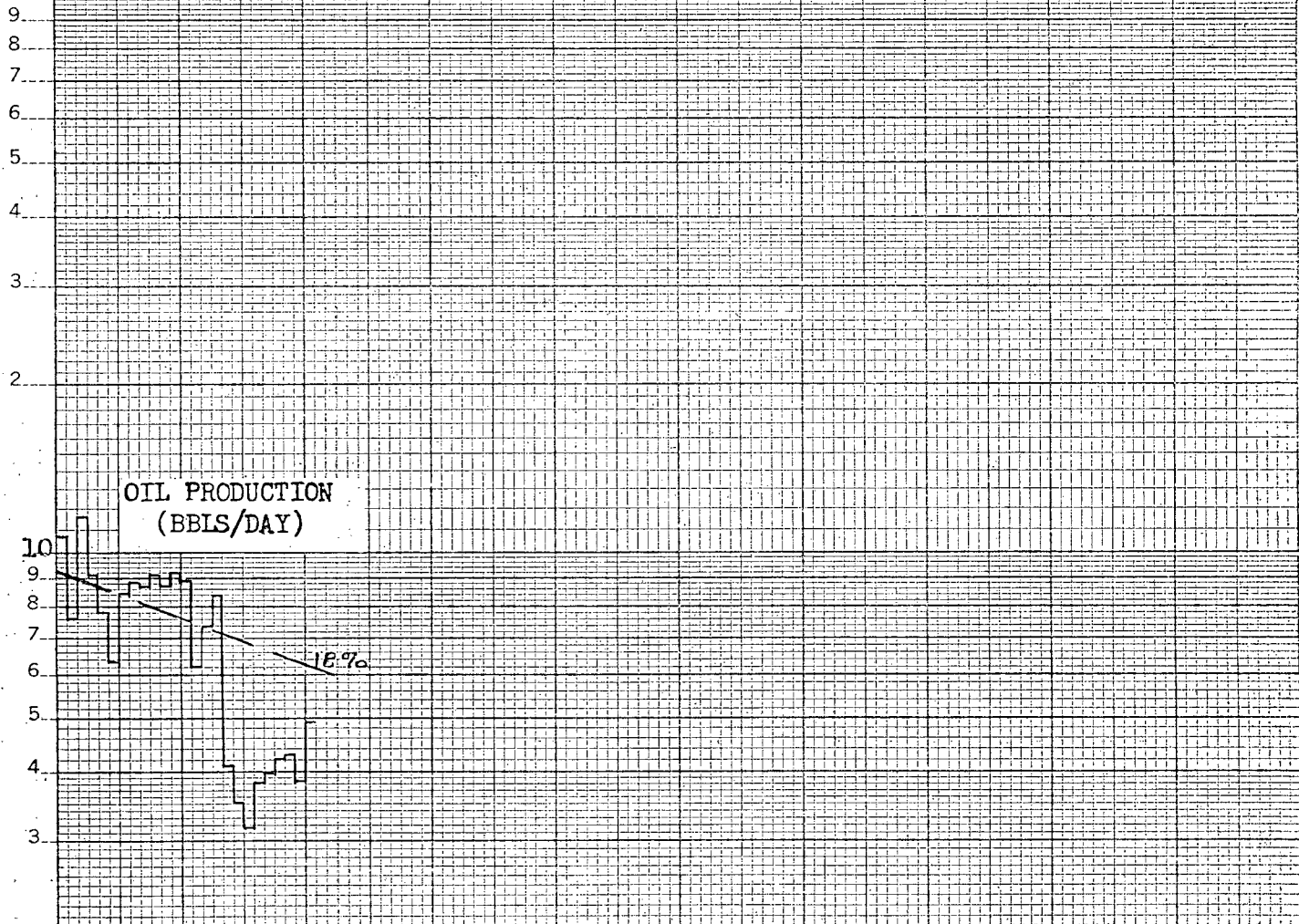
TEXACO Inc.
A.H. BLINEBRY FED. NCT-2 NO. 5
TUBB FIELD
LEA COUNTY, NEW MEXICO

1981	1982	1983	1984	1985	1986	1987	1988	1989	1990		
Mar	June	Sept	Dec	Mar	June	Sept	Dec	Mar	June	Sept	Dec

1,000



100



TEXACO Inc.
 A.H. BLINEBRY FED. NCT-2 NO. 5
 DRINKARD FIELD
 LEA COUNTY, NEW MEXICO

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	81	19	82	19	83	19	84	19	85	19	86	19	87	19	88	19	89	19	90				

Texaco

Texaco

NCT-1

A.H. Blinebry
U.S.

"A.H.

Gulf

Texaco
NCT-1

7
●
BI

19
●
BI
Dr

23
●
BI
Dr

26
●
BI
Dr

28
●
BI
Dr
T

33
●
T
Dr

4
●
BI
Dr (SI)

13
●
BI
Dr

3
*
BI
T (gas)
Dr (abd)

1 BI
Dr

1 T

24
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T
Dr

T
22
S

Summit Energy

Gulf

29

Gulf

1-A
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T (gas)
Dr

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BI

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BI (gas)
T (gas)
Dr (abd)

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BI
Dr (abd)

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BI (SI)
Dr (SI)
Pd

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T
Dr

Evelyn Linebry

E. C. Higgins

Western Oil Fields

Texaco
NCT-2

Gulf

2
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5206'
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BI (gas)
Dr (abd)

5
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BI
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Dr

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BI
T (gas)
Dr (abd)

2
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BI
Dr

14 Pd
●
T (abd)
Dr

A.H. B

A. H. Blinebry - Fed.

Watkins

Gulf

(Pan American)
"S"

Gulf

1
●
BI
Dr

2 Amoco
●
BI
Dr (abd)

1
●
BI
Dr

1
●
BI
Dr (abd)

5
●
BI
Dr (abd)

15
●
Pd
Dr

Cities Service
"P"



SUBJECT WELL

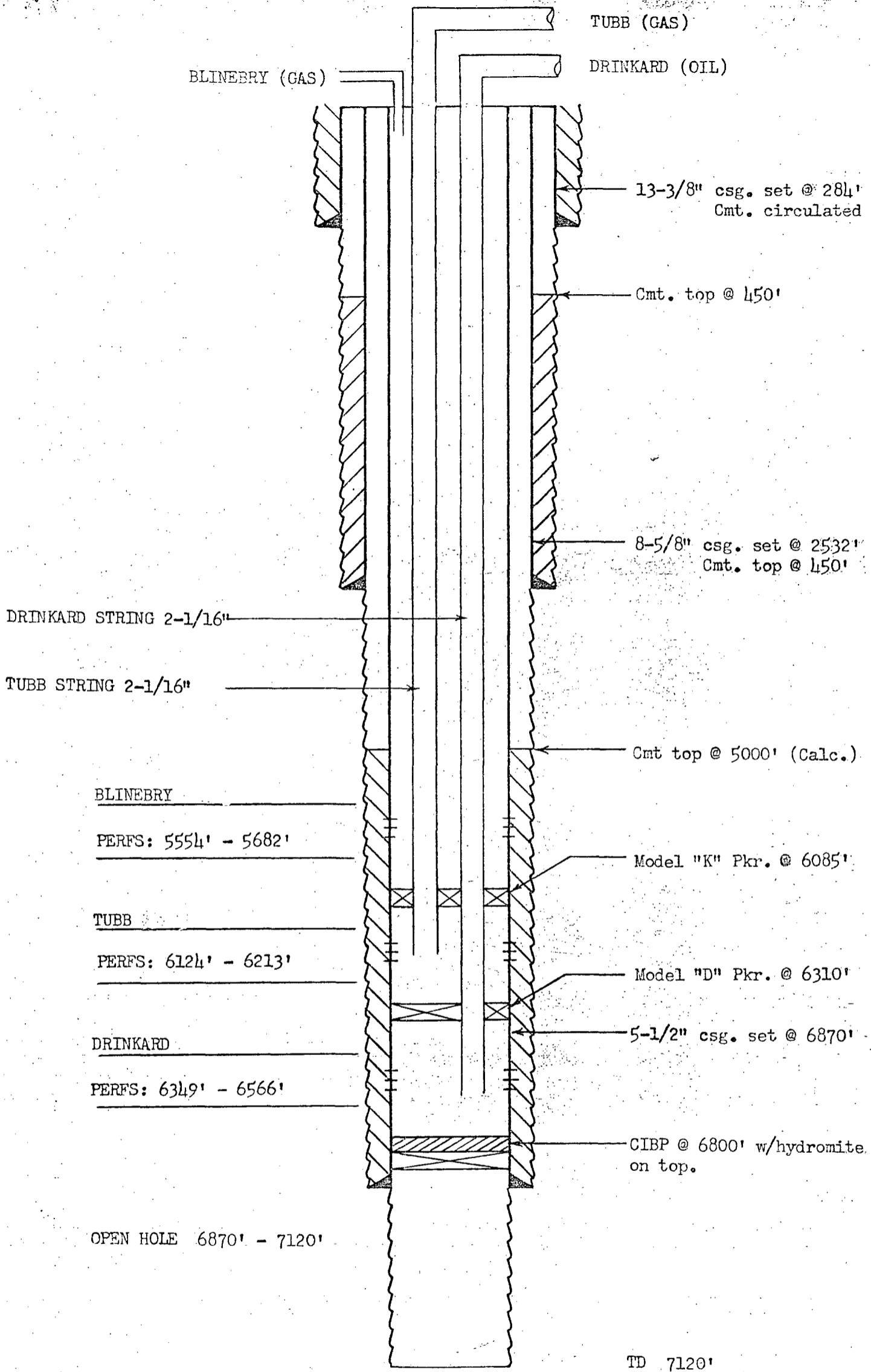
BLINEBRY, TUBB, DRINKARD - 40 Acres

TEXACO Inc.

A.H. BLINEBRY FED NCT-2 WELL NO. 5

BLINEBRY, DRINKARD & TUBB FIELDS

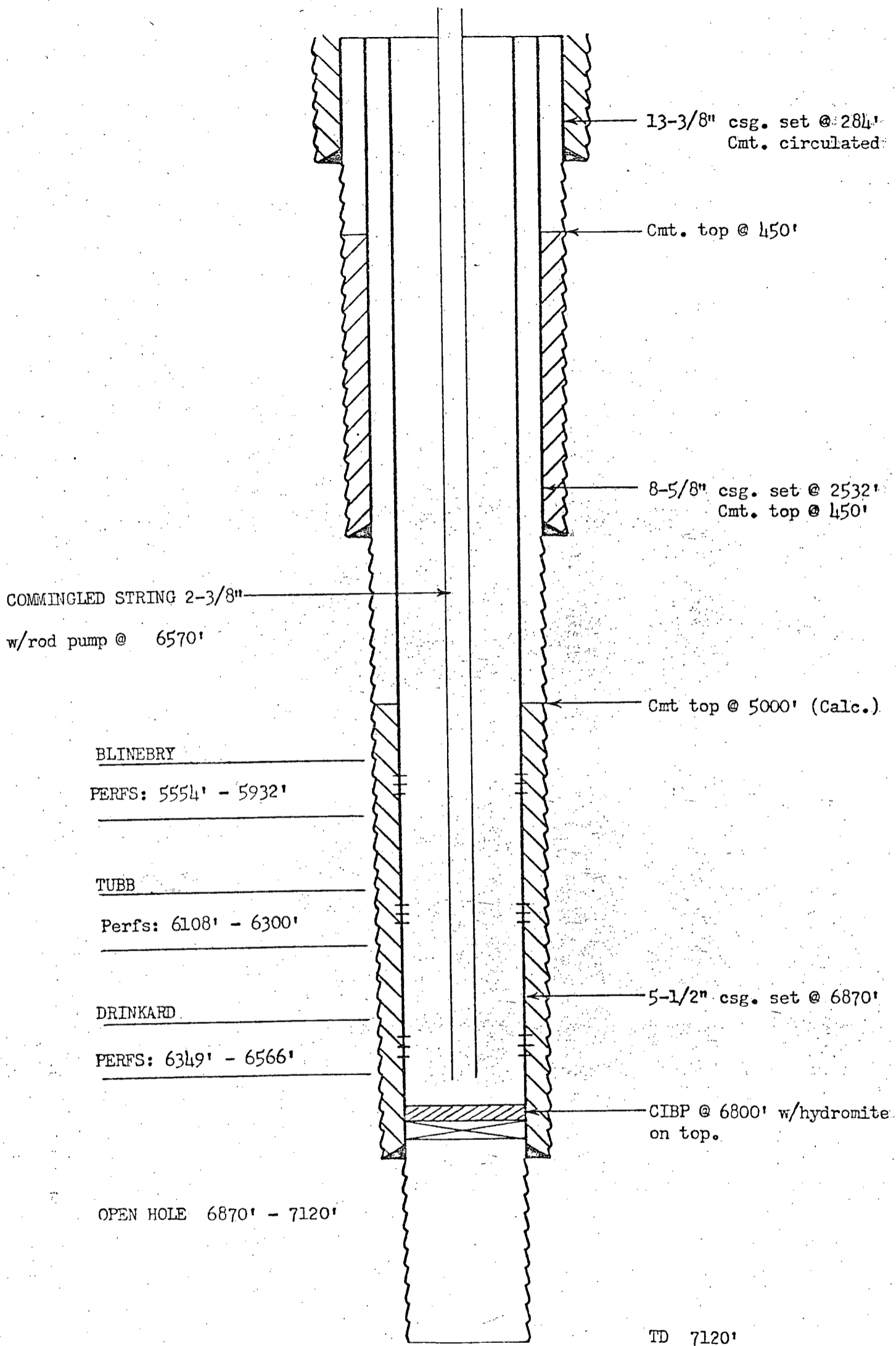
LEA COUNTY, NEW MEXICO



PRESENT COMPLETION

TEXACO Inc.
 A.H. BLINEBRY FED. NCT-2 NO. 5
 BLINEBRY TUBB AND DRINKARD
 LEA COUNTY, NEW MEXICO

JAH/CRC 3-18-83



PROPOSED DOWNHOLE COMMINGLING

TEXACO Inc.
A.H. BLINEBRY FED. NCT-2 NO. 5
BLINEBRY TUBB AND DRINKARD
LEA COUNTY, NEW MEXICO