



OIL CONSERVATION DIVISION TEXACO
SANTA FE 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

Case 7879

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.

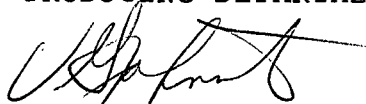
Attached are supporting documents and data for this request.

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

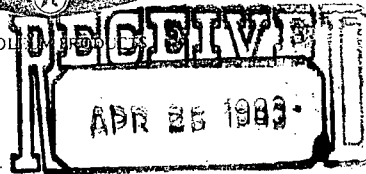
Gulf Oil Exploration & Production Company
P. O. Box 670
Hobbs, New Mexico, 88240

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

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



PETROLEUM PRODUCTS



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

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

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

GAS-OIL RATIO TESTS

Operator: **Texaco Inc.** Pool: **Tubb, Drinkard** 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	TYPE OF TEST	CHOKESIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU. FT./BBL		
		U	S	T	R							WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.			
A. H. Blinbery Federal NCT-2	5	M	29	22S	38E					8	24	0	--	0	160	--		
												Tubb						
												Drinkard						
						4/6/83	F	26/64	100	8	24	1	36 ⁴ / ₄	6	390	65,000		

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 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 101 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
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	<u>Blinebry (Oil)</u>	<u>Tubb (Gas)</u>	<u>Drinkard (Oil)</u>
Producing Method	<u>Shut-in</u>	<u>Flowing</u>	<u>Flowing</u>
BHP	<u>500 (Est.)</u>	<u>547</u>	<u>426</u>
Type Crude	<u>Sweet</u>	<u>N/A</u>	<u>Sweet</u>
Gravity	<u>39.6*</u>	<u>N/A*</u>	<u>36.4*</u>
GOR Limit	<u>428 MCFD</u>	<u>284 MCFD</u>	<u>852 MCFD</u>
Completion Interval	<u>5554-5932</u>	<u>6108-6300</u>	<u>6349-6566</u>
Current Test Date	<u>1/80</u>	<u>4/6/83</u>	<u>4/6/83</u>
Oil	<u>5</u>	<u>0</u>	<u>6</u>
Water	<u>4</u>	<u>0</u>	<u>1</u>
GOR	<u>2420</u>	<u>160 MCFD</u>	<u>65,000</u>
Selling Price of Crude - \$/BBL.	<u></u>	<u></u>	<u></u>
Daily Income - \$/Day	<u></u>	<u></u>	<u></u>

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
 Date: 4/4/83

Datum Plane: (-2779) *

LEASE	WELL NO.	LOCATION			ELEV.	OIL OR GAS (G)	DATE TESTED	Z I G H S	SHUT-IN TEG. PRESS.	BOHB 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./DAY)	LIQUID LEVEL	LIQUID GRADIENT PSI/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
 (Title)

April 4, 1983
 (Date)

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 — 393-8274

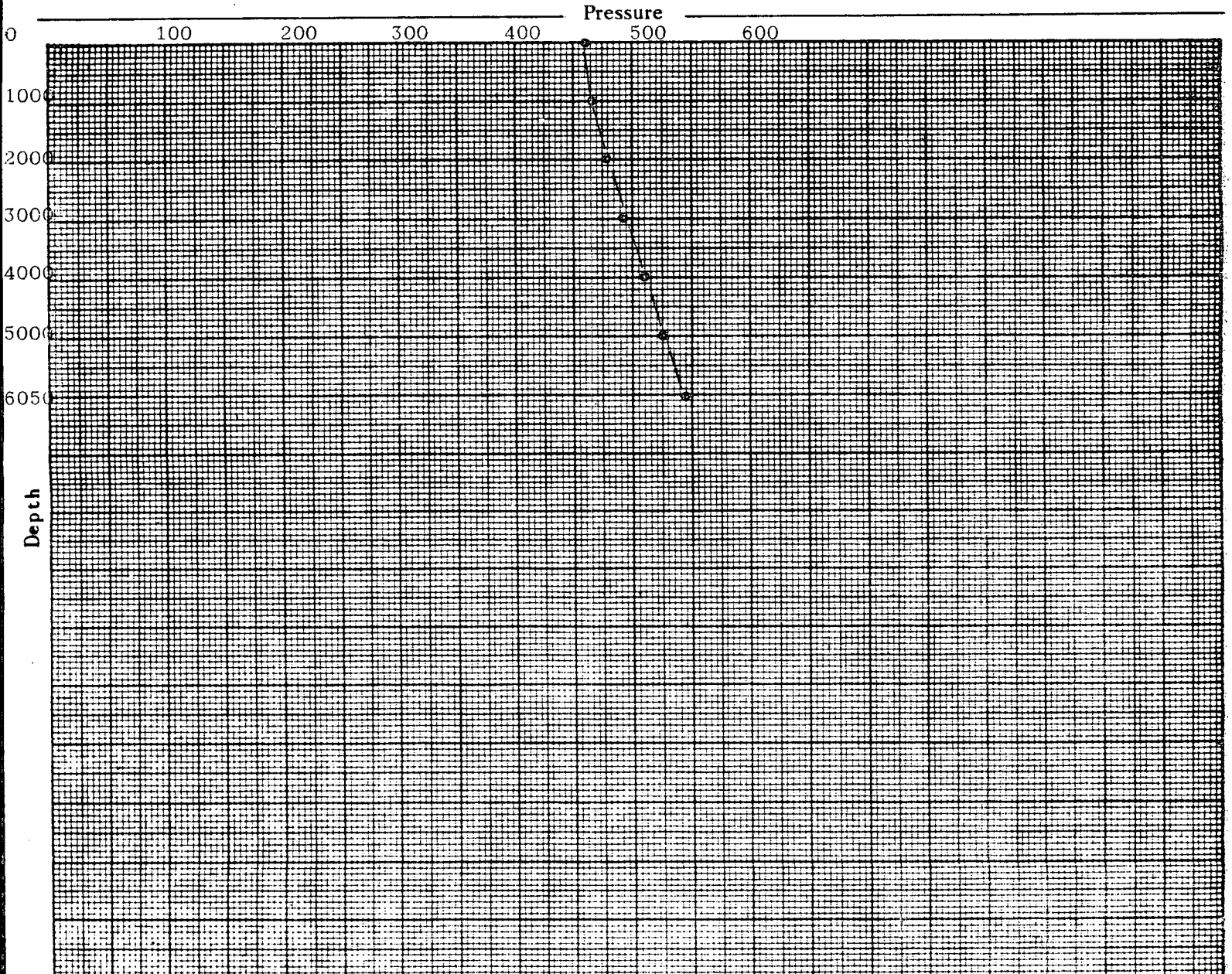
HOBBS, NEW MEXICO 88240

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 X
 General Survey

STATE OF NEW MEXICO
 ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION
 P. O. BOX 3058
 SANTA FE, NEW MEXICO 87501
 RESERVOIR PRESSURE REPORT
 Form C-124
 Revised 10-1-78

Operator: Texaco USA
 Address: Box 728, Hobbs, New Mexico 88240
 Well: Drinkard
 Producing Formation: Drinkard
 Oil Gradient: - psi/ft.
 Water Gradient: - psi/ft.
 Gas Gradient: - psi/ft.
 Datum Point: (-3068) *
 Date: 4/4/83
 County: Lea

LEASE	WELL NO.	LOCATION	ELEV.	DATE TESTED	IN TOC. PRESS.	SONIC INSTRUMENT TEST DATA*				PRESS. AT DATUM					
						HOHR TEST DATA	PROD. TEST	LIQUID LEVEL	LIQUID GRAD. TEND. PSI/FT.		WT. OF LIQUID COL. PSI	WT. OF GAS COL. PSI	CSG. PRESS.		
		U S T M	(b) OR (c)		TEST DEPTH	TEMP. ° F	OP. SERVED PRESS.	IBDL. / DAY	OIL WATER						
A.H. Blinebry Federal NCT-2	5	M 29 22 38	3390 DF	3/30/83	51	360	6275	106	424	* MIDDPOINT OF CASING PERFORATIONS				.011	426

All depths plus or minus sea level; all pressures psi; Depth 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 502.
 * 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.

Paul A. Williams (Signature)
 Agent
 April 4, 1983 (Date)

JARREL SERVICES, INC.

POST OFFICE BOX 1654

PHONES 505 393-5396 — 393-8274

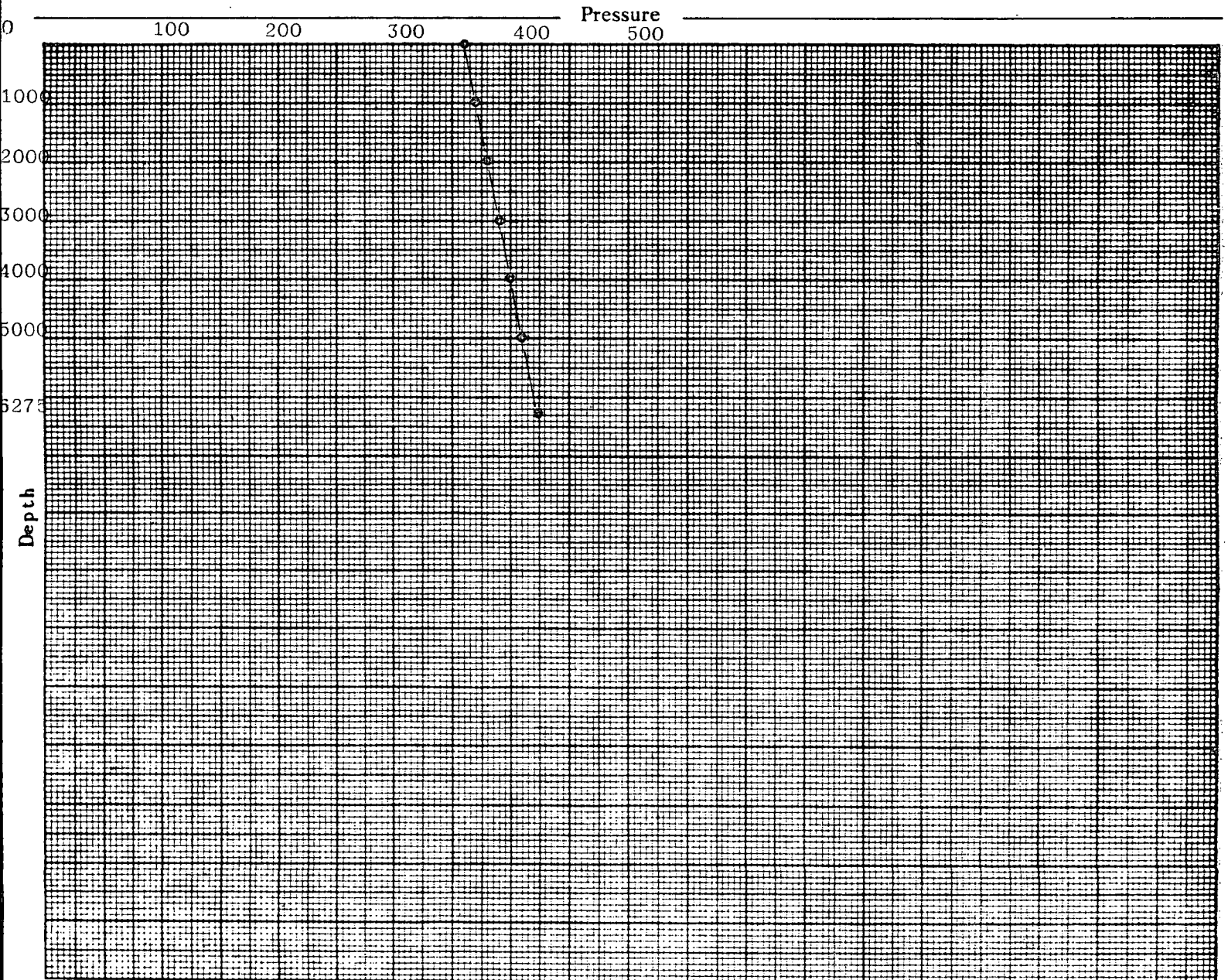
HOBBS, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco USA
 FIELD 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. 430 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

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

9

8

7

6

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4

GAS PRODUCTION
(MCF/DAY)

3

2

1

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9

8

7

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4

3

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5

4

3

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OIL PRODUCTION
(BBL/DAY)

33%

33%

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

0.1

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.												
19_79				19_80				19_81				19_82				19_83				19_84				19_85				19_86				19_87				19_88			

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GAS PRODUCTION
(MCF/DAY)

16%

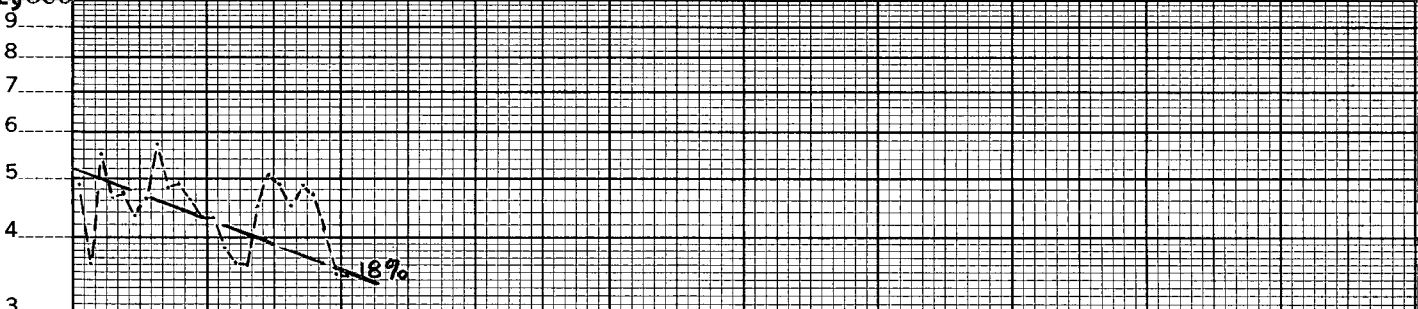
OIL PRODUCTION
(BBL/DAY)

16%

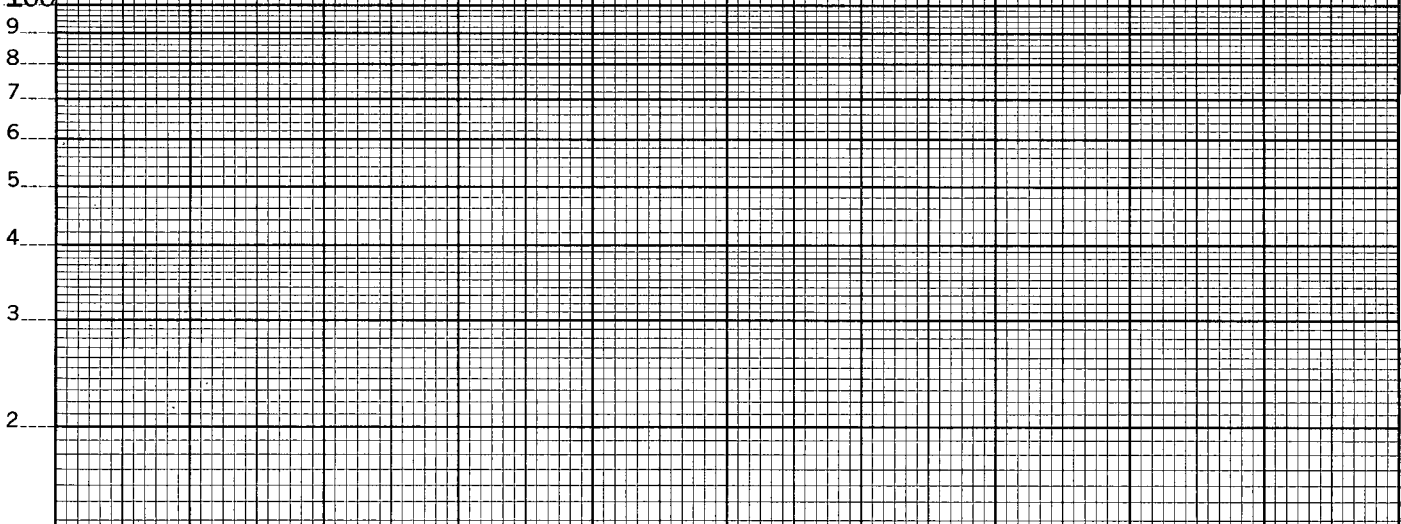
TEXACO Inc.
A.H. BLINEBRY FED. NCT-2 NO. 5
TUBB FIELD
LEA COUNTY, NEW MEXICO

Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.												
19_81				19_82				19_83				19_84				19_85				19_86				19_87				19_88				19_89				19_90			

1,000



100



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

19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.	19	Mar.	June	Sept.	Dec.															
81					82					83					84					85					86					87					88					89					90				

R-38-E

Texaco

Texaco

NCT-1

A.H. Blinebry
U.S.

"A.H.
U.

Gulf

Texaco
NCT-1

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NC

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Dr

23
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28
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Dr (SI)

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BI
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BI
T (gas)
Dr (abd)

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Dr

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Dr

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Summit Energy

Gulf

29

Gulf

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T (gas)
Dr (abd)

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Dr (SI)
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Dr

Western Oil Fields
Gulf

Evelyn Linebry

E. C. Higgins

Gulf

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BI (gas)
Dr (abd)

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Dr (abd)

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BI
Dr

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Pd
T (abd)
Dr

A.H. Blin

Gulf

A. H. Blinebry - Fed.
(Pan American)

Gulf

Tex
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Dr

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Dr (abd)

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Dr (abd)

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Pd
Dr

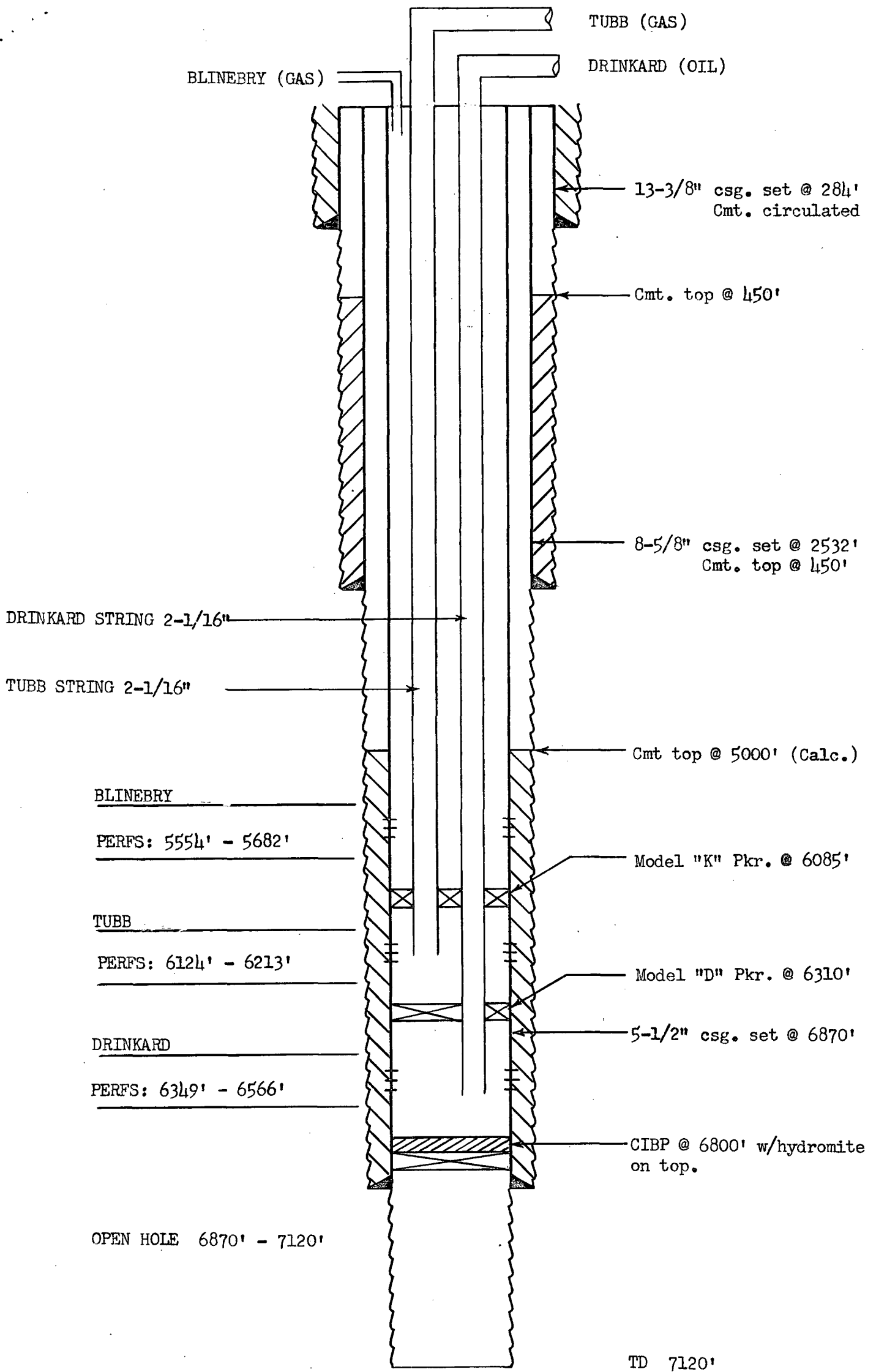
Cities Service
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SUBJECT WELL

BLINEBRY, TUBB, DRINKARD - 40 Acres

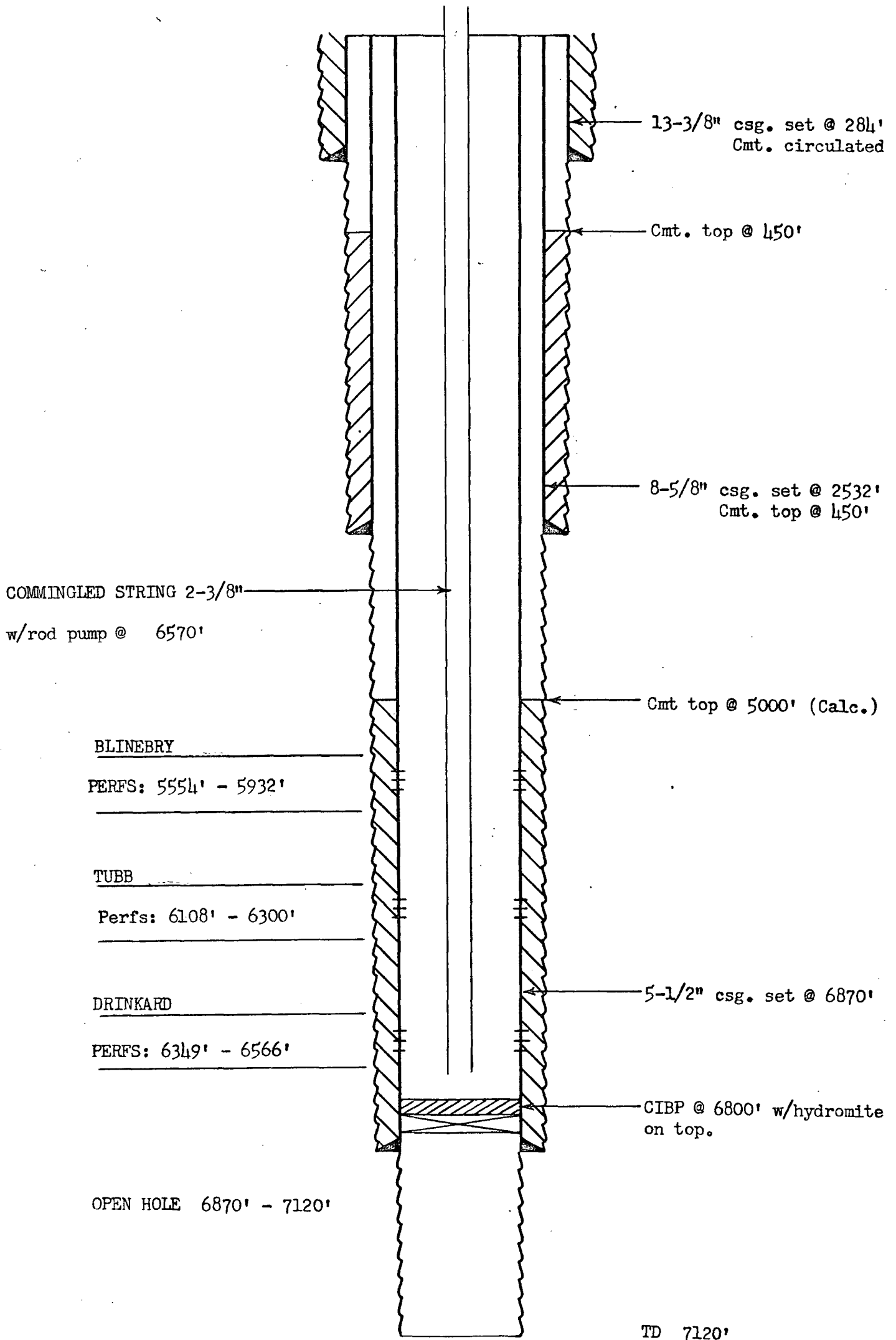
TEXACO Inc.
A.H. BLINEBRY FED NCT-2 WELL NO. 5
BLINEBRY, DRINKARD & TUBB FIELDS
LEA COUNTY, NEW MEXICO



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

JAH/CRC 3-18-83