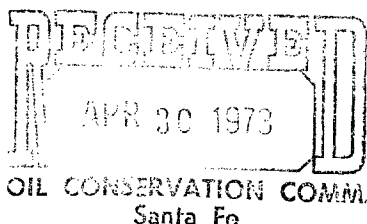




PETROLEUM PRODUCTS

April 23, 1973

TEXACO INC.
DRAWER 728
HOBBS, NEW MEXICO 88240



WELLBORE COMMINGLING

C. H. Lockhart Federal (NCT-1) Well No. 4
Tubb (Oil) and Drinkard (Oil) Pools
Lea County, New Mexico

DHC-127

Due May 20

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

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Texaco Inc. respectfully requests administrative approval under the provisions of Order No. R-3845 to commingle in the wellbore production from the Tubb and Drinkard Pools which are dually completed as permitted by Administrative Order No. DC-991 dated September 26, 1960, in Well No. 4 on the C. H. Lockhart Federal Lease (NCT-1) located in Unit J of Section 18, Township 22-South, Range 38-East, Lea County, New Mexico.

The subject well, for which wellbore commingling approval is requested, qualifies under the provisions of Statewide Rule 303C; which provides for administrative application and approval of wellbore commingling. Both zones are classified as oil zones and produce oil and gas at rates below those specified in the subject order. The Tubb zone is flowing, while the Drinkard zone is produced by artificial lift. Therefore, the commingled production is to be produced by artificial lift as per requirements. The Tubb zone produces no water and the Drinkard zones produces water in amounts less than the specified limits. The fluids from these reservoirs have been commingled in common storage on the surface for several years and are known to be compatible. There is no evidence of scale or precipitates forming due to commingling these zones. The total value of the crudes will not be reduced as both zones are presently produced into the same lease storage and sale facilities. The working interest, royalty and overriding royalty on both zones are common. Future secondary recovery operations in either zone will not be jeopardized by commingling.

To comply with the above mentioned order, a data sheet is attached with all required data pertaining to the zones to be commingled. Also attached is a production curve of both zones in the subject well which may be used to allocate production. Well tests are included as submitted on Form C-116.

New Mexico Oil Conservation
Commission

- 2 -

April 23, 1973

As the lease on which the subject well is located is a Federal lease, a copy of this application is being submitted to the U.S. Geological Survey. Copies are also being mailed to each of the offset operators shown on the attached list.

Yours very truly,



J. V. Gannon
District Superintendent

EOT-BH

USGS

NMOCC-Hobbs

Offset Operators

Attachments

LIST OF OFFSET OPERATORS

TEXACO Inc.
C. H. Lockhart Federal NCT-1 Well No. 4
Lea County, New Mexico

American Petrofina Company of Texas
Drawer B
Artesia, New Mexico 88210

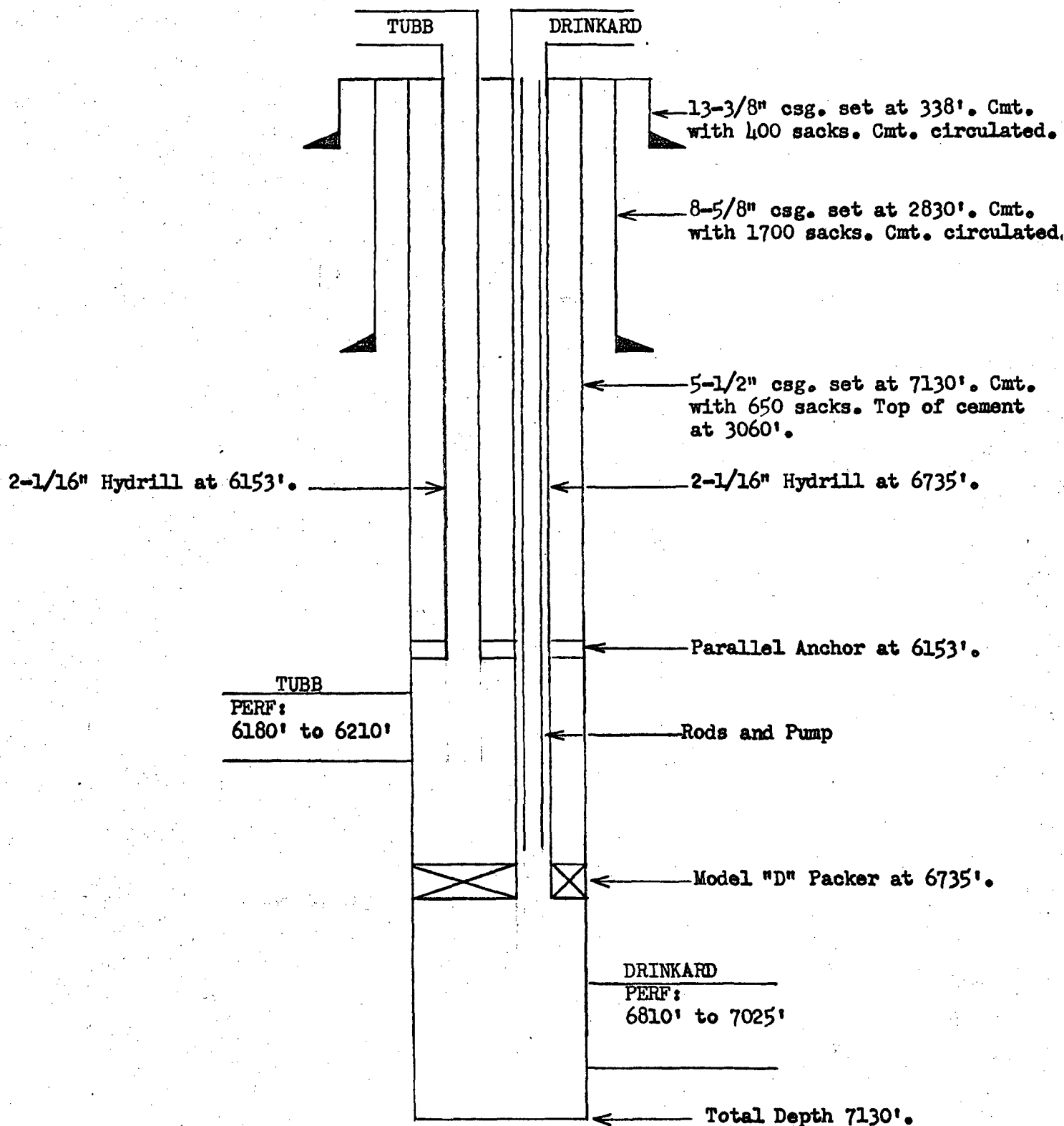
Gulf Oil Corp. - Hobbs Area
P.O. Box 670
Hobbs, New Mexico 88240

Humble Oil and Refining Company
P.O. Box 2100
Hobbs, New Mexico 88240

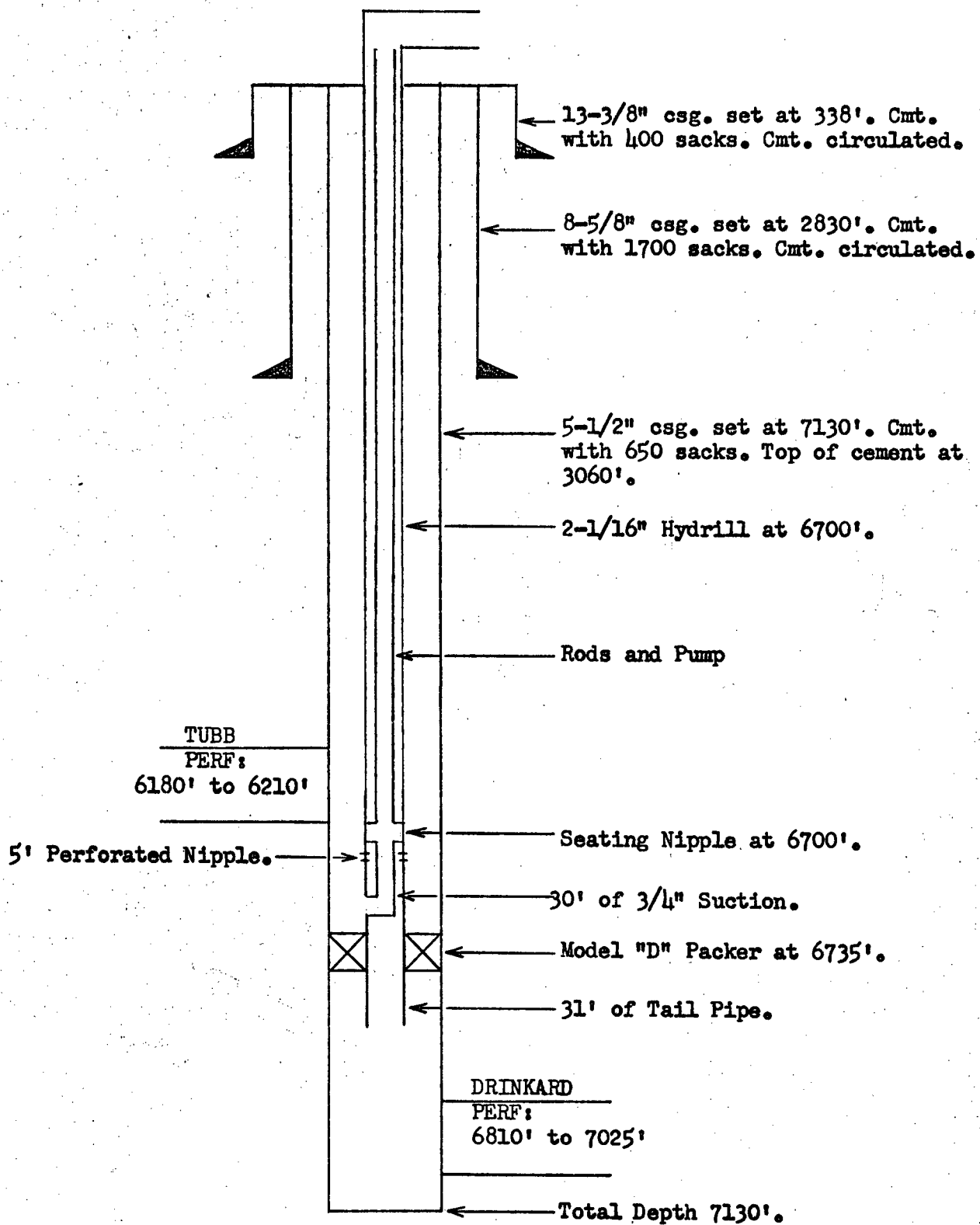
Mabee Petroleum Corp.
201 1st Savings Building
Midland, Texas 79701

Mark Production
330 Citizens Bank Building
Tyler, Texas 75701

Penrose Production Company
P.O. Box 988
Eunice, New Mexico 88231



PRESENT COMPLETION
 TEXACO INC.
 C.H. LOCKHART (NCT-1) WELL NO. 4
 TUBB AND DRINKARD POOLS
 LEA COUNTY, NEW MEXICO



PROPOSED COMPLETION
 TEXACO INC.
 C.H. LOCKHART (NCT-1) WELL NO. 4
 TUBB AND DRINKARD POOLS
 LEA COUNTY, NEW MEXICO

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

Address: Box 728, Hobbs, New Mexico 88240

Lease and Well No.: C. H. Lockhart Federal NCT-1 Well No. 4

Location: Unit J; 1978 Feet from the South Line and 1975 feet from East Line
of Section 18; Township 22-S, Range 38-E; Lea County, New Mexico.

WELL DATA

	<u>Upper Pool</u>	<u>Middle Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Tubb</u>		<u>Drinkard</u>
Producing Method	<u>Flowing</u>		<u>Pumping</u>
BHP	<u>651</u>		<u>450 (Est.)</u>
Type Crude	<u>Sweet</u>		<u>Sweet</u>
Gravity	<u>37.8</u>		<u>38.2</u>
GOR Limit	<u>2000</u>		<u>6000</u>
Completion Interval	<u>6180-6210</u>		<u>6810-7025</u>
Current Test Date	<u>4-4-73</u>		<u>4-8-73</u>
Oil	<u>3</u>		<u>2</u>
Water	<u>0</u>		<u>1</u>
GOR	<u>8,000</u>		<u>6,000</u>
Selling Price of Crude - \$/BBL.	<u>3.52</u>		<u>3.52</u>
Daily Income - \$/Day	<u>10.56</u>		<u>7.04</u>

COMMINGLED DATA:

Gravity of Commingled Crude 38.0

Selling Price of Commingled Crude - \$/BBL. 3.52

Daily Income - \$/Day \$17.60

Net (Gain) (Loss) from Wellbore Commingling - \$/Day None Crudes are now com-
based on current producing rates. mingled on surface.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator TEXACO Inc.		Pool Tubb		County Lea											
Address P. O. Box 728 - Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
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.
C. H. Lockhart Fed. NCT-1	4	J	18	22S	38E	4-4-73	F 18/64	-	6	24	0	37.8	3	24	8,000

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

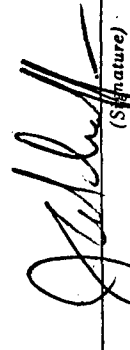
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the 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)

ASST. DIST. SUPERINTENDENT
(Title)

April 19, 1973
(Date)

C-116
Revised 1-1-65

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.

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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)

April 19, 1973

(Date)



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

3713 W. MARLAND ST.

P. O. BOX 1829

HOBBS, NEW MEXICO 88240

BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco, Inc.
FIELD Tubb FORMATION Tubb
LEASE C.H.Lockhart NCT-1 WELL No. 4
COUNTY Lea STATE New Mexico
DATE 4-18-73 TIME 5:30 Pm
Status Shut In Test depth 6000'
Time S. I. 48.0 Hrs Last test date -
Tub Pres. 545 BHP last test -
Cas. Pres. - BHP change -
Elev. 3371' RB Fluid top NONE
Datum (-2824') ** Water top NONE
Temp. @ 106°F Run by Weaver
Cal. No. A4586N Chart No. 7

Depth	Pressure	Gradient
0	545	-
1000	559	.014
2000	575	.016
4000	611	.018
5000	629	.018
6000	647	.018
6195(-2824)	651* **	(.018)

* Extrapolated pressure

** Mid point of casing perforations

