

March 24, 1977

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

RE: WELLBORE COMMINGLING  
New Mexico "O" State (NCT-1) No. 14  
Vacuum (Abo North & Wolfcamp)  
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 (Abo North) and Vacuum (Wolfcamp) pools in Well No. 14 on the New Mexico "O" State (NCT-1) lease, located in Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

The subject well is a triple tubingless completion in the Vacuum (Blinebry, Abo North and Wolfcamp) Pools. The Vacuum (Blinebry) Pool is shut in and has not produced since October, 1970. The Abo North Pool is classified as pumping and the Wolfcamp Pool is classified as flowing. Frequent swabbing of the Wolfcamp zone is required to maintain production. Upon approval of this request the Blinebry zone will be squeezed with cement, the Abo and Wolfcamp will be communicated from perforations at 9254'-9256'. The Abo and Wolfcamp will then be communicated with the abandoned Blinebry string from perforations at 10,348'-10,352' and production will be by artificial lift from the Blinebry casing string. The North Abo and Wolfcamp 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, a bottom hole pressure survey, location plat, C-116 and a list of offset operators.

[illegible][illegible]

MARCH 24, 1977

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  
District Superintendent

JBS:las

Attachments

NMOCC - Hobbs, N.M.  
Offset Operators

HAC, JR.

File  
Chrono

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

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

Lease and Well No: New Mexico "O" State (NCT-1) Well No. 14

Location: Unit J; 1874 Feet from the South Line and  
2086 Feet from East Line of Section 36;  
Township 17-S, Range 34-E; Lea County.

WELL DATA

|                                | <u>Upper Pool</u>         | <u>Lower Pool</u>        |
|--------------------------------|---------------------------|--------------------------|
| Name of Pool                   | <u>Vacuum (Abo North)</u> | <u>Vacuum (Wolfcamp)</u> |
| Producing Method               | <u>Pump</u>               | <u>Flow</u>              |
| BHP                            | <u>600 Est.</u>           | <u>672</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>9170'-9255'</u>        | <u>9954'-10,036'</u>     |
| Current Test Date              | <u>2-22-77</u>            | <u>2-24-77</u>           |
| Oil                            | <u>34</u>                 | <u>19</u>                |
| Water                          | <u>5</u>                  | <u>2</u>                 |
| GOR                            | <u>1800</u>               | <u>4200</u>              |
| Selling Price of Crude-\$/BBL. | <u>5.72</u>               | <u>5.72</u>              |
| Daily Income - \$/Day          | <u>194.48</u>             | <u>108.68</u>            |

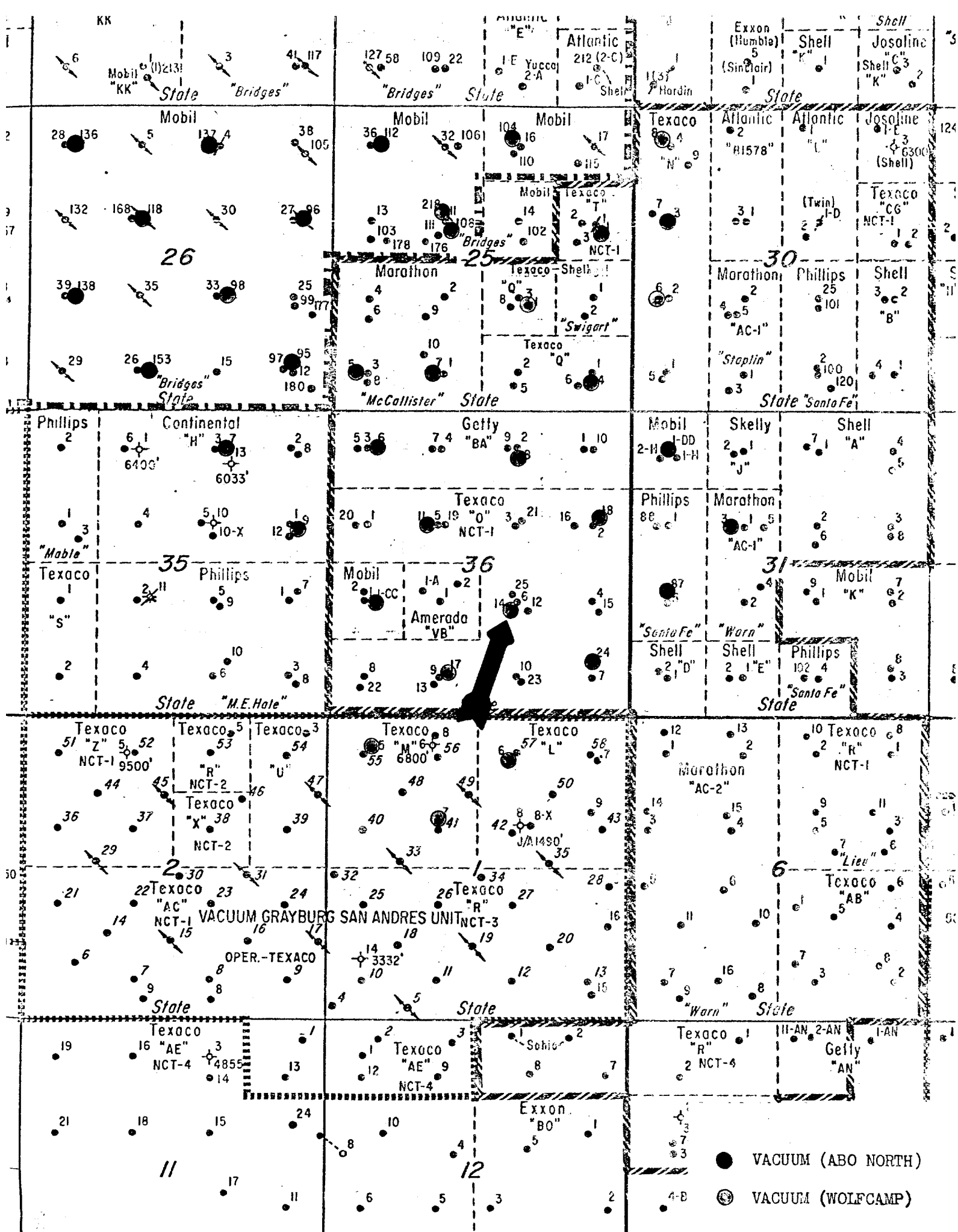
COMMINGLED DATA:

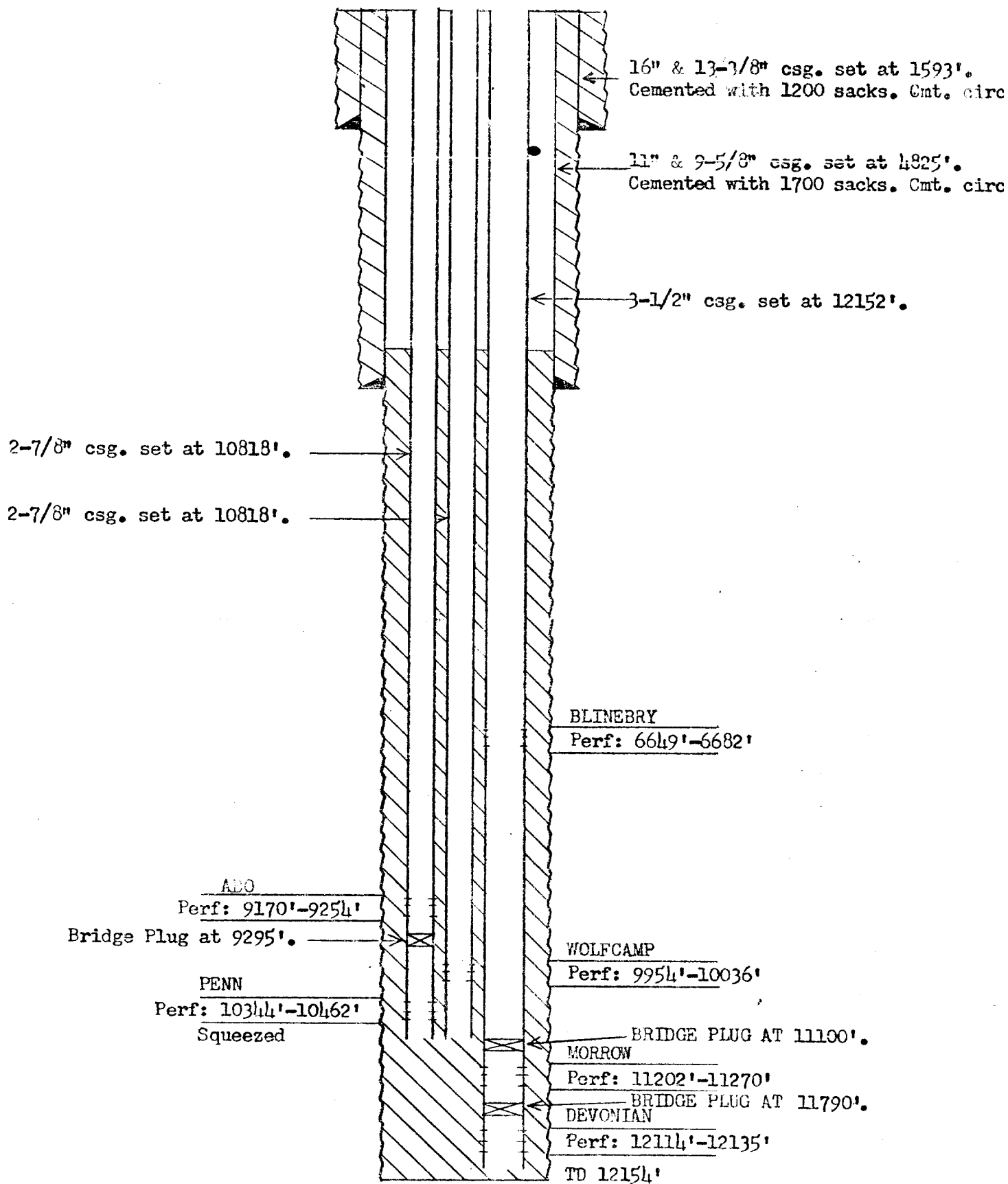
Gravity of Commingled Crude 38.2

Selling Price of Commingled Crude - \$/BBL. 5.72

Daily Income - \$/Day 531.96

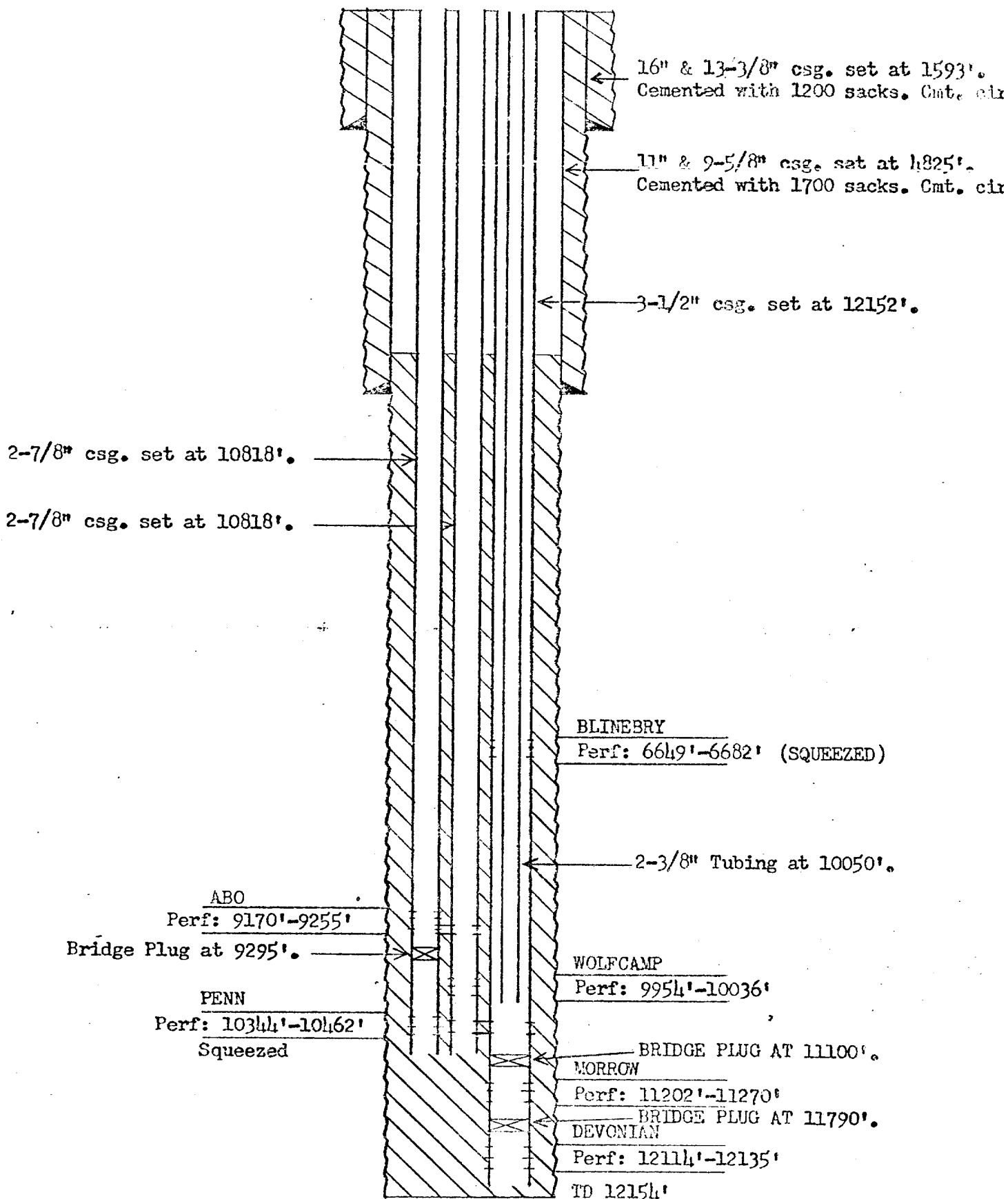
Net (Gain) (~~Loss~~) From Wellbore Commingling - \$/Day 228.80 (Production increase  
based on current producing rates. of 40 BOPD)





Present Completion  
TEXACO INC.

N.M. "O" STATE (NCT-1) NO. 14  
VACUUM (BLINEBRY, ABO NORTH & WOLFCAMP) POOLS  
LEA COUNTY, NEW MEXICO



Proposed Completion  
TEXACO INC.

N.M. "O" STATE (NCT-1) NO. 14  
VACUUM (ABO NORTH & WOLFCAMP) POOLS  
LEA COUNTY, NEW MEXICO

# The Jarrel Company

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

Well Testing Division

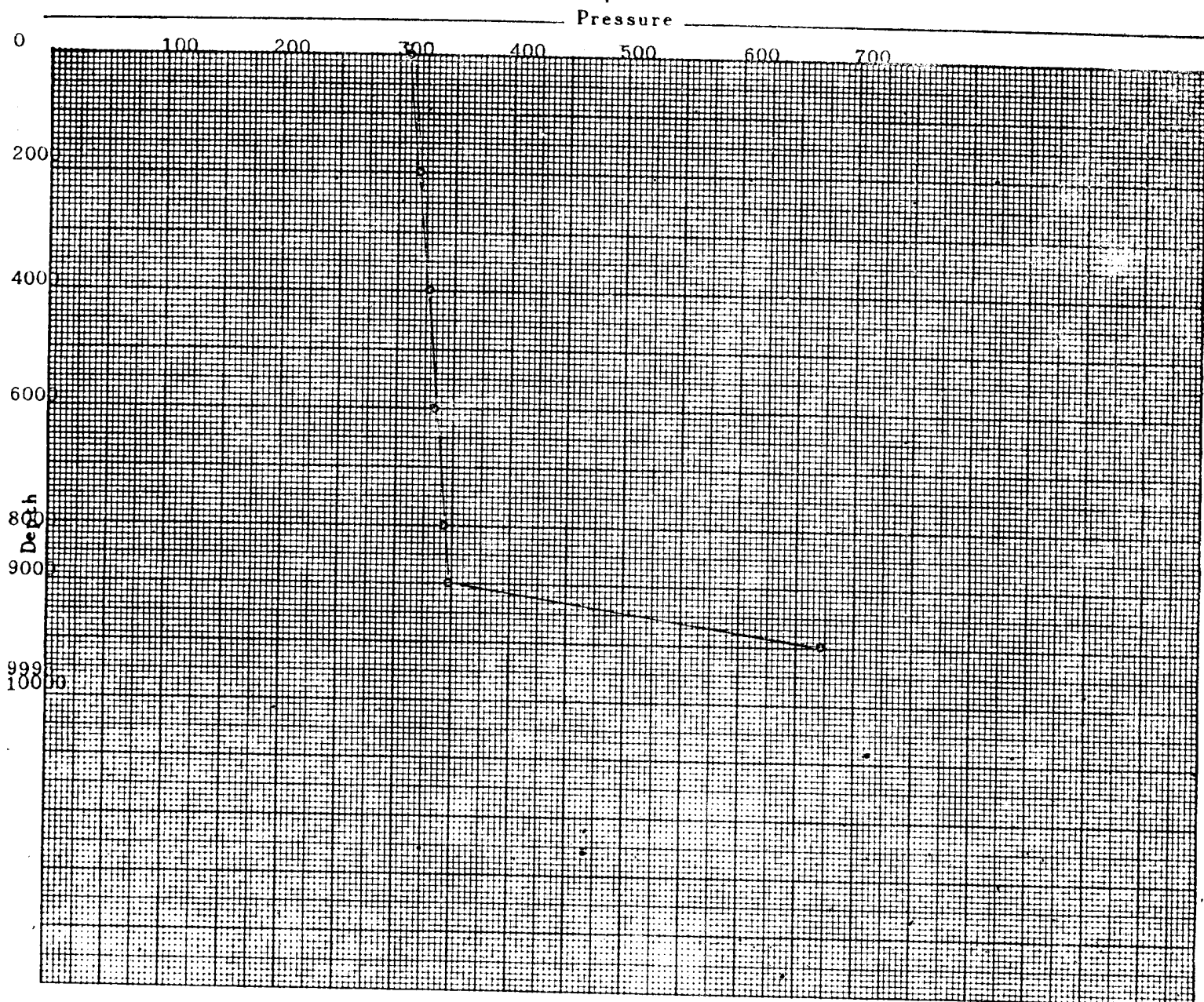
Instrument Service

## BOTTOM HOLE PRESSURE RECORD

OPERATOR Texaco Incorporated  
FIELD Vacuum FORMATION WELL CAMP  
LEASE New Mexico 0 State NCT-WELL 14  
COUNTY Lea STATE New Mexico  
DATE 3-19-77 TIME 2:00PM  
Status Shut in Test depth 9995'  
Time S. 124.0 hours Last test date -  
Tub Pres. 310 BHP last test -  
Cas. Pres. Triple BHP change -  
Elev. 4008'DF-17 Fluid top 9000'  
Datum (-5987) \*\* Water top -  
Temp. @ - Run by Weaver  
Cal. No. A2410N Chart No. 2

| Depth       | Pressure | Gradient |
|-------------|----------|----------|
| 0           | 310      | -        |
| 2000        | 318      | .004     |
| 4000        | 326      | .004     |
| 6000        | 334      | .004     |
| 8000        | 342      | .004     |
| 9000        | 347      | .005     |
| 9995(-5987) | 672      | .327     |

\*\* Midpoint of Casing Perforations





OFFSET OPERATORS

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

Phillips Petroleum Co.  
P. O. Box 2130  
Hobbs, New Mexico 88240

Mobil Oil Corp.  
P. O. Box 633  
Midland, Texas 79701

Amerada Hess Corp.  
P. O. Box 2040  
Tulsa, Oklahoma 74102

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

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

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

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

| Operator<br>TEXACO INC.                  |          | Pool<br>See Below |    | County<br>Lea |              | TYPE OF TEST - (X)                 |             | Completion <input type="checkbox"/> |                      | Special <input checked="" type="checkbox"/> |           |           |            |                           |
|------------------------------------------|----------|-------------------|----|---------------|--------------|------------------------------------|-------------|-------------------------------------|----------------------|---------------------------------------------|-----------|-----------|------------|---------------------------|
| P. O. Box 728 .. Hobbs, New Mexico 88240 |          |                   |    |               |              | SCHEDULED <input type="checkbox"/> |             | PROD. DURING TEST                   |                      | GAS - OIL RATIO                             |           |           |            |                           |
| LEASE NAME                               | WELL NO. | LOCATION          |    |               | DATE OF TEST | CHOKE SIZE                         | TBG. PRESS. | DAILY ALLOW-ABLE                    | LENGTH OF TEST HOURS | WATER BBLs.                                 | GRAV. OIL | OIL BBLs. | GAS M.C.F. | GAS - OIL RATIO CU.FT./BB |
|                                          |          | U                 | S  | T             |              |                                    |             |                                     |                      |                                             |           |           |            |                           |
| Vacuum Abo North                         |          |                   |    |               |              |                                    |             |                                     |                      |                                             |           |           |            |                           |
| N. M. "O" State (NCT-1)                  | 14       | J                 | 36 | 17-S          | 34-E         | 2-22-77                            | P           | 38                                  | 24                   | 5                                           | 38.2      | 34        | 61.2       | 1800                      |
| Vacuum Wolfcamp                          |          |                   |    |               |              |                                    |             |                                     |                      |                                             |           |           |            |                           |
| N. M. "O" State (NCT-1)                  | 14       | J                 | 36 | 17-S          | 34-E         | 2-24-77                            | P           | 26                                  | 24                   | 2                                           | 38.2      | 19        | 79.8       | 4200                      |

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

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 allowable 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.

  
(Signature)  
Assistant District Superintendent  
(Title)  
February 28, 1977  
(Date)

