

# Gulf Oil Exploration and Production Company

February 5, 1979

R. C. Anderson  
PRODUCTION MANAGER, HOBBS AREA

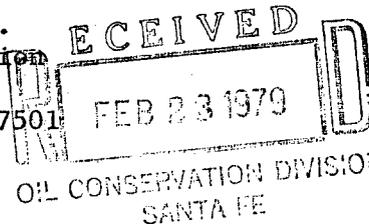
P. O. Box 670  
Hobbs, NM 88240

Re: H. T. Mattern (NCT-D) No. 11  
Section 6-22S-37E, Lea County, NM

DHC # 275

DUC - 3/15/79

Mr. Joe D. Ramey  
State of New Mexico  
Energy & Minerals Dept.  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501



Tubb Gas Pool  
Drinkard Pool

Dear Sir:

We request your administrative approval for an exception to Rule 303-A to permit downhole commingling of production from the Tubb and Drinkard Pools in the subject well. Present production from these two pools on the subject lease is being commingled in surface storage facilities under Commingling Order PLC-52 dated September 26, 1978. There has been no evidence of fluid incompatibility and we do not expect any reservoir damage due to downhole commingling in the subject well. Ownership of the Tubb and Drinkard pools on the subject lease is common; therefore, correlative rights will not be violated.

At the present time, the Drinkard zone is temporarily abandoned and the Tubb zone is being pumped in the subject well. If this application is approved, the existing pumping equipment will be used to produce both of the commingled zones. We propose to run tubing through the Drinkard zone. Also, upon approval of this application, we will consult with the supervisor in the Division's Hobbs District Office to determine a suitable allocation formula.

Additional information concerning this application as required by Rule 303-C is attached for your consideration. If you have any questions or comments concerning these matters, please contact this office.

Yours very truly,

*R. C. Anderson*  
R. C. ANDERSON

MDW:ptg  
Att'd.

cc: Oil Conservation Division  
P. O. Box 1980  
Hobbs, NM 88240

Continental Oil Company  
P. O. Box 460  
Hobbs, NM 88240

Rowan Companies, Inc.  
1900 Post Oak Tower Bldg.  
5051 Westheimer  
Houston, TX 77027

Getty Oil Company  
P. O. Box 249  
Hobbs, NM 88240

|            |            |        |
|------------|------------|--------|
| Duc - 1180 | 179 mcf    | 6000/1 |
| Tubb 27    | 67         | 2000/1 |
| <u>38</u>  | <u>246</u> |        |

Offset operators continued on page 2



Bottom of 6643, max allow = 40 BOPD

# Gulf Oil Exploration and Production Company

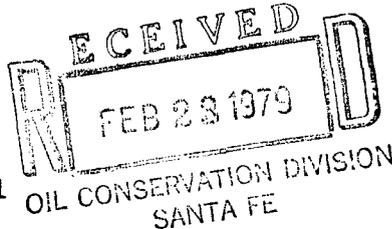
February 5, 1979

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P. O. Box 249  
Hobbs, NM 88240



Offset operators continued on page 2

Offset Operators - H. T. Mattern (NCT-D) No. 11

Yarborough Oil Company  
P. O. Box 1001  
Eunice, NM 88231

Petro Lewis  
P. O. Box 509  
Levelland, TX 79336

Atlantic Richfield  
P. O. Box 1610  
Midland, TX 79701

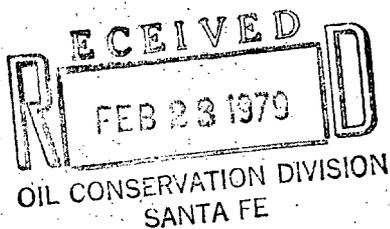
El Paso Natural Gas Co.  
600 Bldg. of the Southwest  
Midland, TX 79701

Amerada Hess Corporation  
Drawer 817  
Seminole, TX 79360

Texas Pacific Oil Co., Inc.  
P. O. Box 4067  
Midland, TX 79701

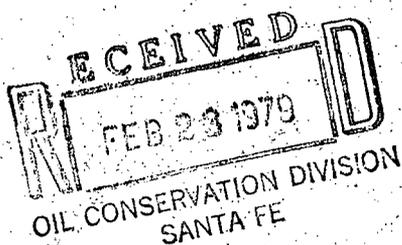
Sohio Petroleum Co.  
P. O. Box 3000  
Midland, TX 79701

Shell Oil Company  
P. O. Box 1509  
Midland, TX 79701



H. T. MATTERN (NCT-D) NO. 11

1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, NM 88240
2. Lease, Well & Location: H. T. Mattern (NCT-D) No. 11, Unit F, 1980' FNL & 1650' FWL Section 6-22S-37E, Lea County, NM
3. Producing Zones: Currently producing the Tubb pool which is to be commingled with the temporarily abandoned Drinkard pool if approved. Drinkard zone was temporarily abandoned on 8-11-78.
4. Decline Curves: See attached sheets.
5. Bottom hole pressure: Both zones require artificial lift in order to be produced. Drinkard BHP 462 psi; Tubb BHP 670 psi
6. Fluid Characteristics: Tubb and Drinkard are presently being commingled in surface facilities on the H. T. Mattern (NCT-D) Lease. To date there has been no evidence of fluid incompatibility.
7. Well History: Well was spudded 5-15-75 and drilled to a total depth of 6800'. 5-1/2" production casing was set at 6744' with top of cement at 2444'. Present plug back depth for the well is 6436'. Initial completion was in the Drinkard zone through perforations at 6506-08', 6529-31', 6561-63', 6594-96', 6620-22' and 6641-43'. Casing was perforated in each zone with 4, 1/2" JHPF. Well was stimulated with 5000 gallons 15% HCl and fracture treated with 42,000 gallons gelled water containing 45,000# 20-40 mesh sand. Initial production from the Drinkard zone was 136 bopd and 25 bwpd flowing on 20/64" choke with a flowing tubing pressure of 150 psi. Prior to abandoning Drinkard GOR test showed 15 bopd 1 bwpd and 125 MCFGPD, pumping. Approximately one year after completion, the well was acidized with 3000 gallons 15% HCl and pumping equipment was installed. In July, 1978 a cast iron bridge plug was set at 6450' temporarily abandoning the Drinkard perforations (6506-6643'). Tubb production on the subject lease was established by perforating the intervals 6192-96', 6224-28', 6273-77', 6310-14' and 6334-38' with 2, 1/2" JHPF. These perforations were then acidized with 3000 gallons 15% HCl and fractured with 36,600 gallons of gelled water containing 3/4 to 3# of 20-40 mesh sand per gallon. Initial production test for the Tubb indicated the well pumped 40 bopd, 10 bwpd and 61 MCFGPD.
8. Value of Commingled Fluids: Drinkard and Tubb production is being commingled in surface storage facilities on the subject lease per Administrative Order PLC-52, therefore, downhole commingling will not affect the price.
9. Current Production: See attached C-116.
10. All Offset Operators are being notified by copy of this application.



NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

| Operator<br>Gulf Oil Corporation    |          | Pool<br>Drinkard   |   | County<br>Lea  |              |            |             |                 |                      |                   |            |           |                           |          |            |
|-------------------------------------|----------|--------------------|---|--|--------------|------------|-------------|-----------------|----------------------|-------------------|------------|-----------|---------------------------|----------|------------|
| Address<br>Box 670, Hobbs, NM 88240 |          | TYPE OF TEST - (X) |   | Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/> |              |            |             |                 |                      |                   |            |           |                           |          |            |
| LEASE NAME                          | WELL NO. | LOCATION           |   |  | DATE OF TEST | CHOKE SIZE | TBG. PRESS. | DAILY ALLOWABLE | LENGTH OF TEST HOURS | PROD. DURING TEST |            |           | GAS - OIL RATIO CU.FT/SBL |          |            |
|                                     |          | U                  | S | T  |              |            |             |                 |                      | R                 | WATER BLS. | GRAV. OIL |                           | OIL BLS. | GAS M.C.F. |
| H. T. Mattem (NCT-D)                | 11       | F                  | 6 | 22   | 37           | 6-22-78    | P 2" WO     | 40              | 21                   | 24                | 3          | 37.0      | 11                        | 179.0    | 16,273     |

RECEIVED  
FEB 23 1978  
OIL CONSERVATION DIVISION  
SANTA FE

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.  
Well 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]*  
Well Tester  
(Signature)

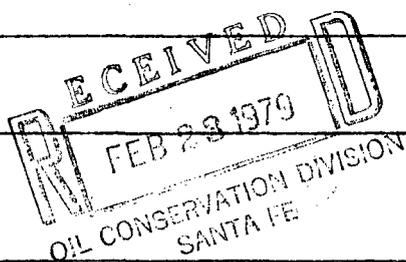
June 25, 1978  
(Title)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

|                                     |                |                    |   |  |                        |                       |                   |                        |                               |  |              |                                       |            |            |
|-------------------------------------|----------------|--------------------|---|--|------------------------|-----------------------|-------------------|------------------------|-------------------------------|--|--------------|---------------------------------------|------------|------------|
| Operator<br>Gulf Oil Corporation    |                | Pool<br>Tubb Oil   |   | County<br>Lea  |                        |                       |                   |                        |                               |  |              |                                       |            |            |
| Address<br>Box 670, Hobbs, NM 88240 |                | TYPE OF TEST - (X) |   | Scheduled <input checked="" type="checkbox"/> Special <input type="checkbox"/> |                        |                       |                   |                        |                               |  |              |                                       |            |            |
| LEASE NAME<br>H. T. Mattern (NCT-D) | WELL NO.<br>11 | LOCATION           |   |  | DATE OF TEST<br>9-6-78 | CHOKE SIZE<br>2" W.O. | TBG. PRESS.<br>40 | DAILY ALLOW-ABLE<br>94 | LENGTH OF TEST IN HOURS<br>24 | Completion <input type="checkbox"/> Special <input type="checkbox"/> |              |                                       |            |            |
|                                     |                | U                  | S | T  |                        |                       |                   |                        |                               | R  | WATER BBL'S. | PROD. DURING TEST<br>GRAV. OIL BBL'S. | OIL BBL'S. | GAS M.C.F. |
|                                     |                |                    |   |  |                        |                       |                   |                        |                               | 10   | 34.9         | 27                                    | 67.0       | 2,481      |

COPY



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Original signed by N. G. Hallmark

Well Tester (Signature)

2-16-79 (Title)

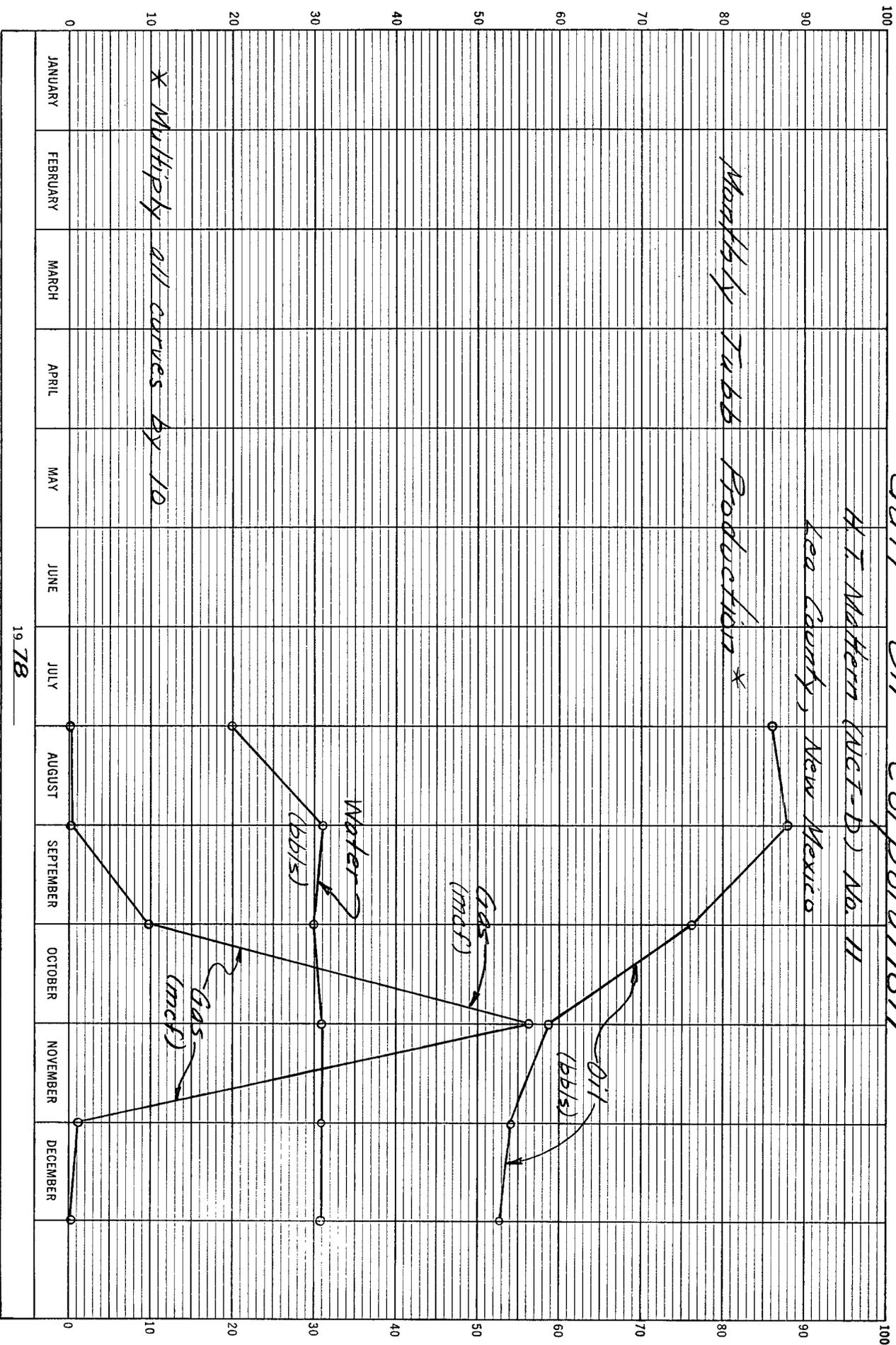
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# Gulf Oil Corporation

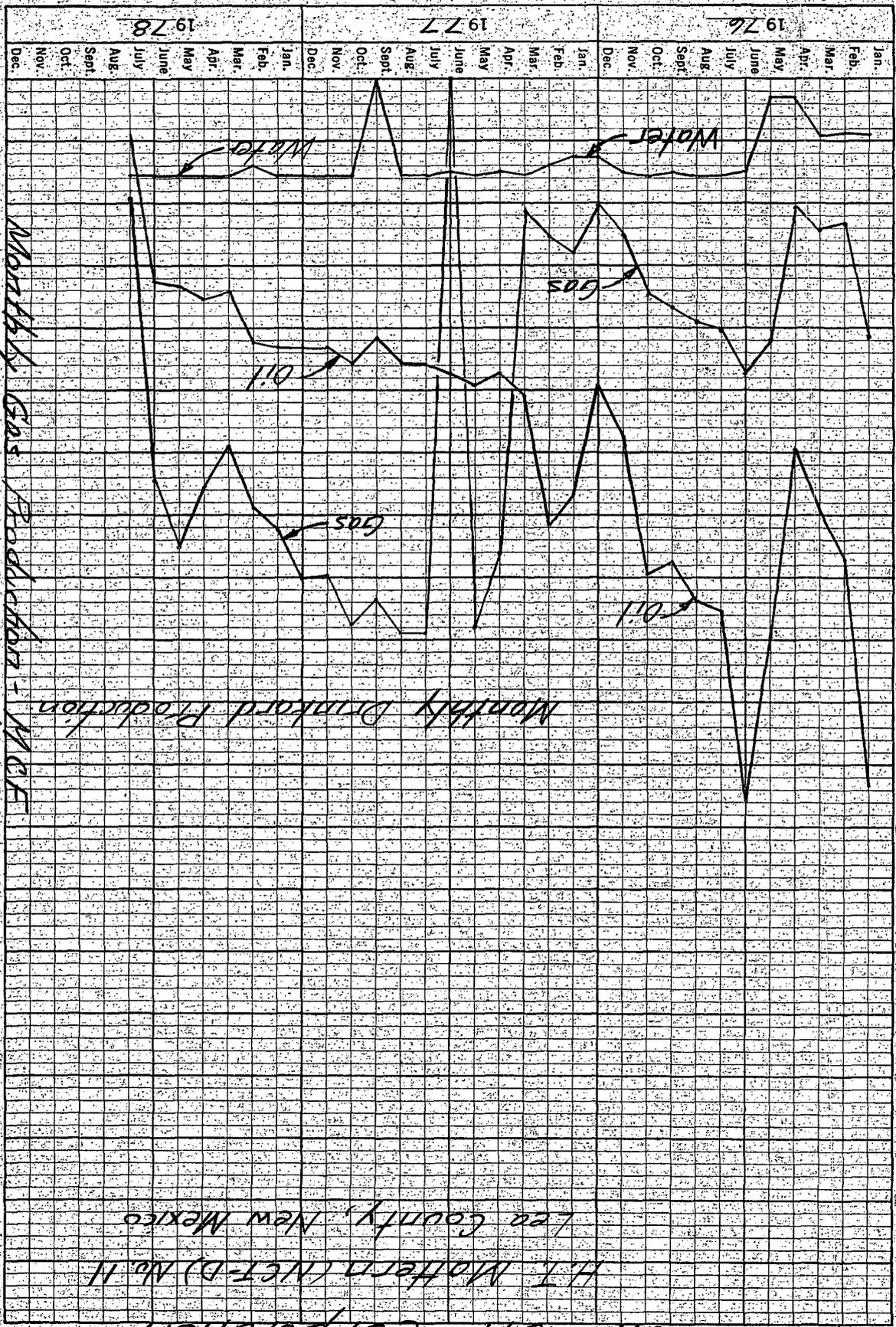
A. T. Mather (A.M.E.T.-D.) No. 11  
Lea County, New Mexico

Monthly Tubbs Production \*

\* Multiply all curves by 10



Monthly Oil & Water Production - bbls



Gulf Oil Corporation  
 H.T. Mottern (NCT-D) No. 11  
 Lea County, New Mexico