### Gulf Oil Exploration and Production Company

June 21, 1979

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670 Hobbs, NM 88240

Re: H. T. Mattern (NCT-D) Wells No. 12 and 16, Section 49-22S-37E, Lea County, New Mexico

DHC - 283 Due - 7/12/79

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

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 wells. 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 wells. 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 wells. 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,

JUNE 2 1979

OU CONSERVATION DIVISION

OIL CANSERVATION DIVISION MOWY ACLA FE

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

> All Offset Operators Address List Attached

P. C. Queleson

Tubb 180 87. 56mcf 52%.

Dr 1130 927. 51mcf 489.

Bottom of 6670' max = 40 8000



#### H. T. MATTERN (NCT-D) NO. 16

- 1. Operator: Gulf Oil Corporation, P.O. Box 670, Hobbs, NM 88240
- 2. Lease, Well and Location: H. T. Mattern (NCT-D) No. 16, Unit E, 1650'FNL & 610'FWL, Section 7-22S-37E, Lea County, New Mexico
- 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 November 16, 1978.
- 4. Decline Curves: See attached sheets.
- 5. Bottom Hole Pressures: Both zones require artificial lift in order to be produced. Drinkard BHP 462 psi; Tubb BHP 672 psi. (Estimated from offset production.)
- 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 8-28-75 and drilled to a total depth of 6760'. Five and one-half inch production casing was set at 6760' with top of cement at 2275'. Present plug back depth for the well is 6725'. Initial completion was in the Drinkard zone through perforations at 6510-12', 6533-35', 6563-65', 6596-98', 6623-25', 6646-48', 6668-70'. Casing was perforated in each zone with four (4) 1/2" JHPF. Well was stimulated with 3,200 gallons 15% HCl and fracture treated with 49,000 gallons gelled water containing 1-2# 20-40 SPG. Initial production from the Drinkard zone was 108 BOPD and 49 BWPD, flowing on 18/64" choke with a flowing tubing pressure of 200 psi. Approximately 14 days after completion, the well was acidized with 2,000 gallons 15% HCl and pumping equipment was installed on 10-17-79. Acidized on 2-13-76 with 5,000 gallons 15% HCl. Prior to abandoning Drinkard zone a production test shows 13 BOPD, 20 BWPD and 100 MCFGPD, pumping. In November 1978, a cast iron bridge plug was set at 6425', temporarily abandoning the Drinkard perforations. Tubb production on the subject lease was established by perforating the intervals 6212-16', 6270-74', and 6312-16' with two (2) JHPF. These perforations were then acidized with 900 gallons 15% HCl and fractured with 30,000 gallons of gelled water containing 38,250# 20-40 sand. Initial production test for the Tubb indicated the well pumped 8 BOPD, 14 BWPD and 23 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.

#### OFFSET OPERATORS

#### H. T. MATTERN (NCT-D) WELLS NO. 12 AND 16

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

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

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

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

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

Atlantic Richfield Company P. O. Box 1610 Midland, TX 79701 Amerada Hess Corporation P. O. Drawer 817 Seminole, TX 79360

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

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

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

El Paso Natural Gas Company 600 Building of the Southwest Midland, TX 79701

# NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

513 1371674 1-1-85

|   |      |         |                           | H. T. Mattern (NGT-D)      |                | T MACH NAVI  | P. O. Box 670, Hobbs, | Gulf Oil Corporation |
|---|------|---------|---------------------------|----------------------------|----------------|--------------|-----------------------|----------------------|
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|   |      |         |                           | 12                         | Z<br>O         | אברר         | 88240                 |                      |
|   |      |         |                           | Ħ Ħ                        | c              |              |                       |                      |
|   | · .  |         |                           | 6                          | ı              | Loc,         |                       | 1004                 |
|   |      |         |                           | 22                         | н              | LOCATION     |                       |                      |
| ٠ |      |         |                           | 37<br>37                   | מ              |              | • •                   | Tubb 011             |
|   | •. " | 100,000 |                           | 5-31-79<br>6 <b>=</b> 6-79 | TEST           | DATEOF       |                       |                      |
|   |      |         |                           | ㅂㅂ                         | STA            |              | 1831<br>3dai          |                      |
|   | ٠    | ·· ··   |                           | 2"wo<br>2"wo               | SIZE           | CHOKE        | 0 X                   |                      |
|   |      |         |                           | 40<br>30                   | 70             | TEG.         |                       |                      |
|   |      |         | er en der Province och en | 16<br>7                    | ALLOW-         | סאורא        | Scheduled [           | C <sub>0</sub>       |
|   | ·    |         |                           | 24<br>24                   | MOURS          | LENGTH       |                       | County Lea           |
|   |      |         |                           | 4                          | WATER<br>BBLS. | TO           | Contr                 | φ.                   |
|   |      |         | •                         | 32.1<br>35.6               | GRAV.          | ROD. D       | Completion            |                      |
|   |      |         |                           | 1<br>01                    | 9512°          | PROD. DURING |                       |                      |
|   |      |         | S-Statement C             | 46.0                       | CAS<br>M.C.F.  | TEST         | 25.00                 |                      |
|   |      |         |                           | 4,600<br>56.000            | CU.FT/BB       | GAS - 0:L    | Special [X]           |                      |

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

increased allewables when authorized by the Commission. 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.

₩111 be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15,025 psia and a temporature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through easing.

Rule 301 and appropriate pool rules. Kall original and one copy of this report to the district office of the New Mexics Oil Conservation Commission in accordance with

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

(Signoture)

Well Tester

June 19, 1979-0

Arvised 1-1-65

| Operator Gulf Oil Corporation  |        |       | Pool     |           | Dr       | Drinkard          |             |       |     | Cog           | County | Lea            |              | •              |           |   |
|--|--------|-------|----------|-----------|----------|-------------------|-------------|-------|-----|---------------|--------|----------------|--------------|----------------|-----------|---|
| Address P. O. Box 670, Hobbs, NM 81  | 88240  |       |          |           |          | 1-                | TYPE        | - (X) | Sci | Scheduled [X] | .      |                | Completion [ | u              | Special   |   |
|  | אפרר   |       | רסכי     | LOCATION  | ·        | PATEOF            |             | CHOKE | ТВС | - 1           | HED OF |                | ROD.         | PROD. DURING 1 | TEST      | GAS - OIL                                   |
| LEASE NAME   | v<br>O | c     | s        | 4         | מ        | TEST              | STAT        | SIZE  | ~   | ALLOW-        | TEST   | WATER<br>BBLS. | GRAV.        | 98LS.          | M.C.F.    | RATIO<br>CU.FT/BBI                          |
|  |        |       |          | ٠         |          |                   |             |       |     |               |        |                |              |                |           |   |
| H. T. Mattern (NCT-D)  | 12     | *     | 6        | 22        | 37       | 2-8-78            | ਰ           | 2" wo | 40  | 18            | 24     | 15             | 37.7         | 28             | 163.0     | 5,821                                       |
|  | 16     | ĮTI   | 7        | 22        | 37       | 1-6-78            | ਚ           | 2" wo | 35  | 20            | 24     | 10             | 37.7         | \E             | 51.0      | 4,636                                       |
|  |        |       |          |           |          |                   | <del></del> |       | • . |               |        | •              |              |                |           |   |
|  |        | · ——— |          | · ·       |          |                   |             |       |     |               |        |                |              |                |           |   |
|  |        |       |          | •         |          |                   |             |       | æ.  |               |        |                |              |                |           |   |
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|  |        |       |          | •         |          |                   |             |       |     |               |        |                | ;            |                |           |   |
| No well will be assigned on ollowable greater than the amount of oil produced on the official test |        | 7 5   | the amou | int of oi | 1 moduce | A on the official |             |       |     |               |        | 7              |              | if ob a        | the above | I haraby confife that the above information |

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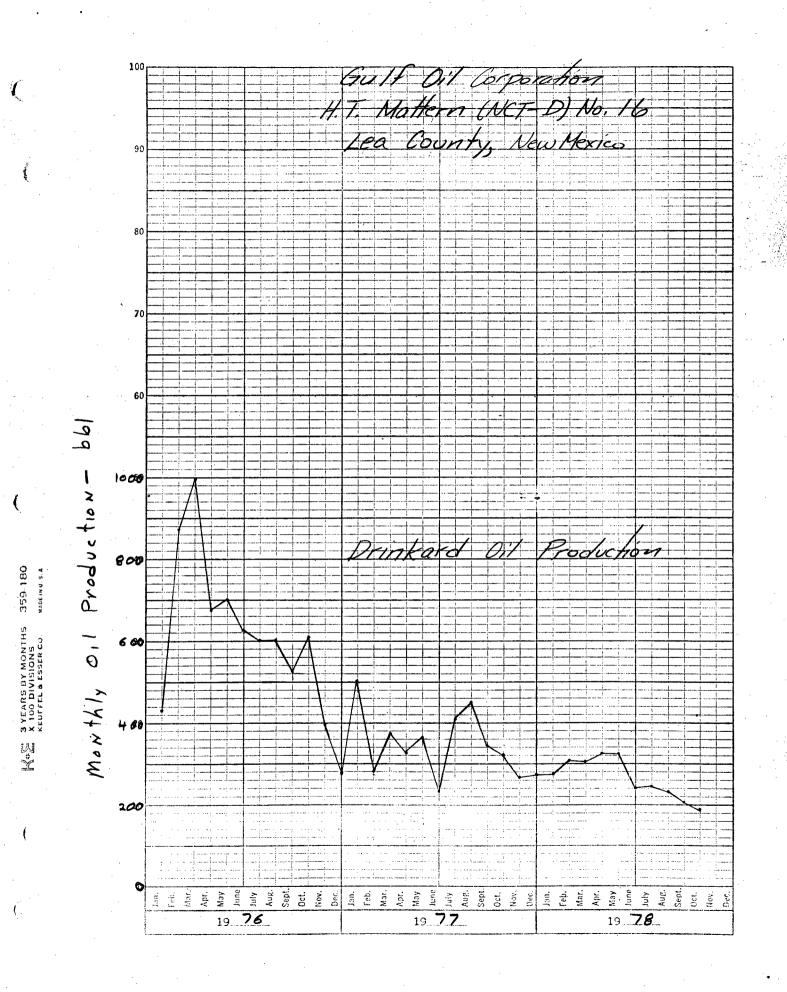
Cas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base

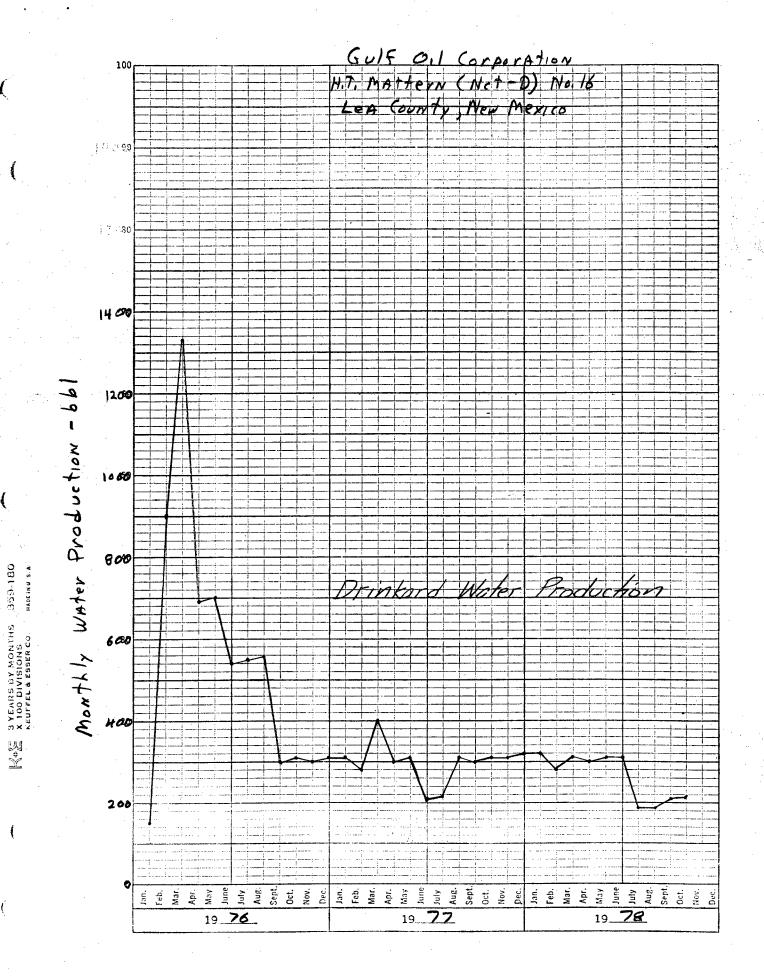
Report casing pressure in lieu of tubing pressure for any well producing through casing.

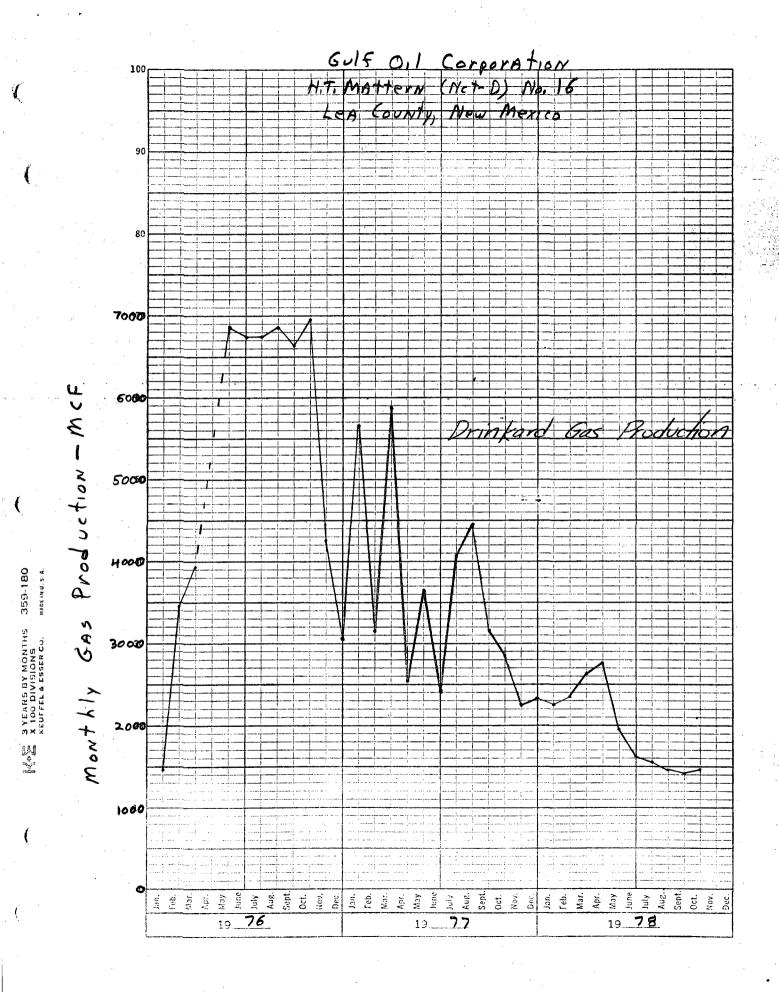
Meil original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

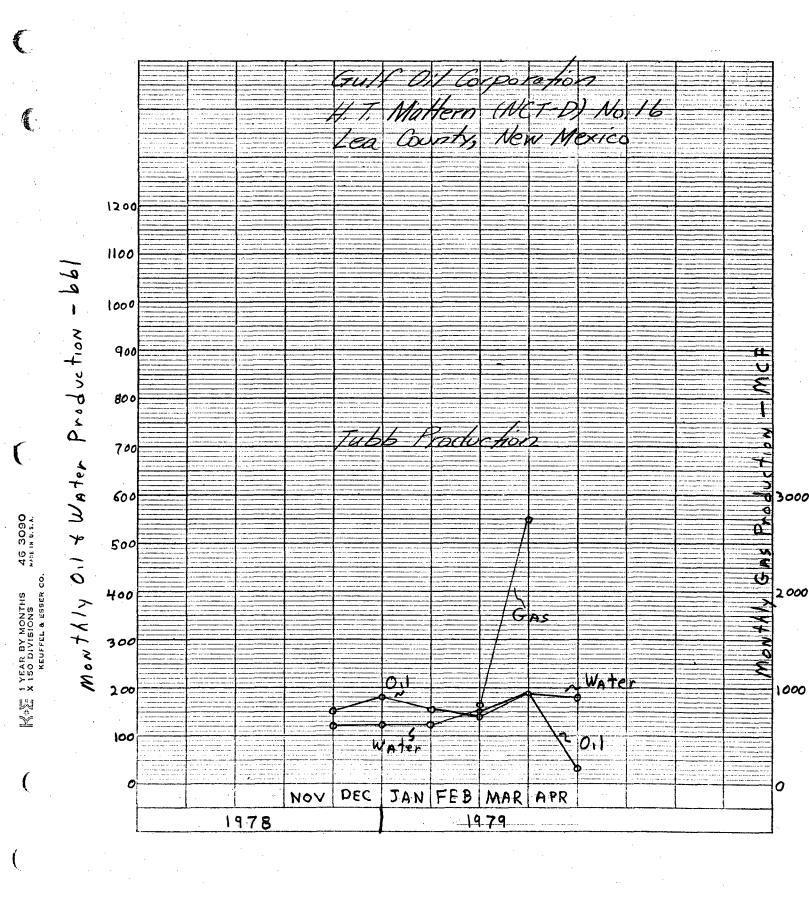
ledge and belief. is true and complete to the best of my know i nereby certify that the above information Original Signed by

May 8, 19787714e) Well Tester (Signature) N. G. Hallmark









## OIL CONSERVATION COMMISSION Hobbs DISTRICT

| OIL CONSERVATION COMMISSION<br>BOX 2088        | DATE            | June                 | 22, 1979       |                      |
|--|-----------------|----------------------|----------------|----------------------|
| SANTA FE, NEW MEXICO                           | RE:             | Proposed             | MC DHC NSL SWD |                      |
|  |                 | Proposed<br>Proposed | WFX            |                      |
| Gentlemen:  I have examined the application da | DIVISION        |                      |                |                      |
| for the Gulf Oil Corp. OH. T. Mattern          | - (NCT D) #12 # | · 6 22 27            | 0 416 5        | 7 22 27              |
|  | e and Well No.  |                      | nit, S-T-      |                      |
| and my recommendations are as follows:         |                 | -                    | ,              | -                    |
| 0.KJ.S.  |                 |                      |                | <del></del>          |
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|  |                 |                      |                | <del>. 71 - 11</del> |
|  |                 |                      |                |                      |
|  | Your            | s very tr            | uly,           |                      |

10drs very truly,