

# Gulf Oil Exploration and Production Company

C. D. Borland  
PRODUCTION MANAGER, HOBBS AREA

July 26, 1978

P. O. Box 670  
Hobbs, NM 88240

Re: H. T. Mattern (NCT-C) No. 7,  
Section 18-21S-37E; H. T. Mattern  
(NCT-C) No. 9, Section 7-21S-37E;  
H. T. Mattern (NCT-C) No. 11,  
Section 8-21S-37E; Lea County,  
New Mexico  
Request for Approval to Downhole  
Commingle the Blinebry and  
Drinkard Pools

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

Dear Sir:

Your administrative approval is requested for an exception to Rule 303-A to permit downhole commingling of production in the subject well from the Blinebry and Drinkard Pools (commingled in surface storage by Administrative Order PC-517, dated 9-8-75). Production from the same two pools is presently being commingled downhole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8 per Order No. R-5274, dated August 31, 1976. There is no evidence of fluid incompatibility, and we do not expect any reservoir damage due to downhole commingling in the wellbore. Ownership of the two pools in each of the subject wells is common and correlative rights will not be violated.

Currently, Wells No. 7, 9 and 11 each utilize a single pumping unit installation producing from the Drinkard pool. Upon approval to downhole commingle, we will isolate the Drinkard and perforate and stimulate the Blinebry zone. The Blinebry will then be tested separately. At that time, Gulf will submit to the District Supervisor of the Energy and Minerals Department of the Oil Conservation Division, separate stabilized well tests from the Blinebry pool for computing an allocation formula as provided under the guidelines of Order No. R-5274.

We propose to tube the wells to the Drinkard zone and utilize equipment on the Drinkard in each of the wells to lift the fluids from the commingled zone. Based upon offsets on the H. T. Mattern (NCT-C) Lease, it is our expectation that produced fluids from the Blinebry zone



100-100000-100000

JUL 26 1978

FEDERAL BUREAU OF INVESTIGATION  
COMMUNICATIONS SECTION  
FBI - MEMPHIS

in Wells No. 7, 9 and 11 will need to be artificially lifted. Upon approval of this application and in the event that the Blinebry does not require artificial lift, Gulf will postpone downhole commingling until such a time both zones require artificial lift and the total daily production from both zones, before commingling, does not exceed 40 barrels per day.

Additional information concerning this application as outlined in Rule 303-C is attached for your consideration.

Yours very truly,



C. D. BORLAND

Attachments  
LBI/dch

✓ cc: Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 1980  
Hobbs, NM 88240

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

Campbell & Hendrick  
P. O. Box 401  
Midland, TX 79701

Texaco Inc.  
P. O. Box 728  
Hobbs, NM 88240

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

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

Apco Oil Company  
P. O. Box 1027  
Odessa, TX 79760

Sun Oil Company  
P. O. Box 1205  
Hobbs, NM 88240

Marathon Oil Company  
P. O. Box 2409  
Hobbs, NM 88240

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

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

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

Amerada Hess Corporation  
P. O. Box 840  
Seminole, TX 79360

---

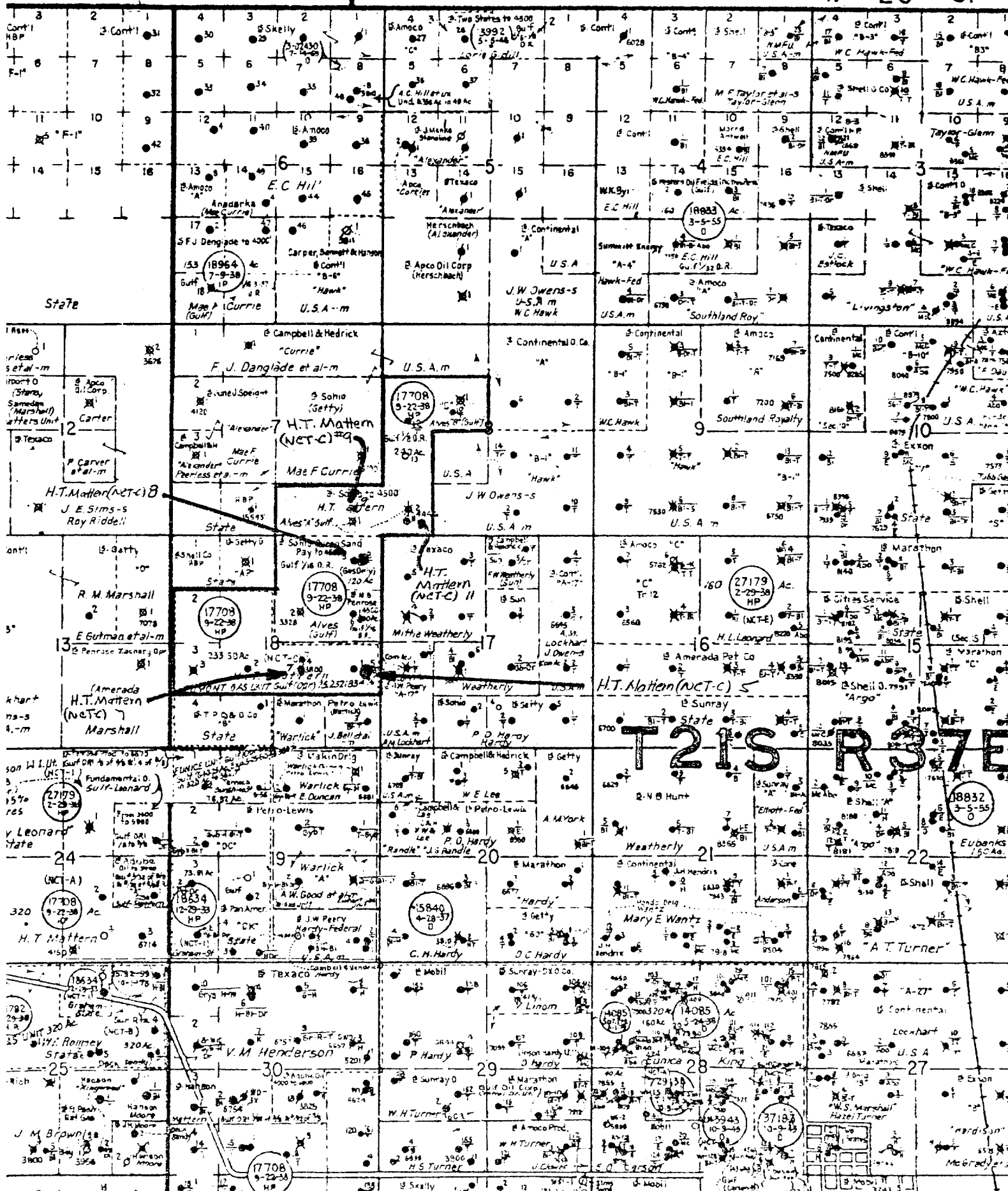
RECEIVED

JUL 26 1978

EN. REGISTRATION COMM.  
BOSS, P. M.

EUMONT HARDY UNIT  
 Continental Oil (oper.)  
 Gulf 0.89942% 3-445-00

Gulf wells proposed downhole commingled  
 Gulf wells downhole commingled T. 20 S. -



RECEIVED

JUL 26 1978

OIL CONSERVATION COMM.  
HOUSTON, TEXAS

H. T. MATTERN (NCT-C) NO. 7

- (1) Gulf Oil Corporation  
P. O. Box 670  
Hobbs, NM 88240
- (2) Lease and Well No.: H. T. Mattern (NCT-C) No. 7  
Unit J, 2130'FSL & 1980'FEL  
Section 18-21S-37E, Lea County, New Mexico
- (3) Well History: Well No. 7 was drilled to a total depth of 6785' with 5-1/2" OD production casing set at 6773'. Current PBTID is 6732'. On October 3, 1975 the 5-1/2" casing was perforated w/4 1/2" JHPF in the Drinkard interval 6520-6707'. The drinkard was then treated with 3000 gal 15% NE HCL inhibited HCL and frac treated with 60,000 gal 9.2#/gal gelled brine and 1 - 2# 20-40 SPG. Well was equipped to pump on October 15, 1975 and potentialied for 52 BOPD and 90 BWPD. The Drinkard was again stimulated on February 4, 1977 with 1000 gal 15% NE HCL inhibited HCL.
- (4) Decline Curves: Drinkard Oil (Attached)
- (5) Bottom Hole Pressure Data:

|                       |                           |
|-----------------------|---------------------------|
| Blinebry: Datum -2400 | Pressure @ Datum 675 psi* |
| Drinkard: Datum -2975 | Pressure @ Datum 850 psi* |

\*Estimates based on most recent available BHP data within vicinity of well and fluid level test.
- (6) Fluid Characteristics: Blinebry and Drinkard are presently being commingled downhole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8, Order No. R-5274, dated August 31, 1976. There has been no evidence of fluid incompatibility.
- (7) Value of Commingled Fluids: Blinebry and Drinkard production are presently being surface commingled on this lease per Administrative Order PC-517, dated September 8, 1975. Since production is already being commingled on the surface, downhole commingling will not affect the price.
- (8) Current Production Tests: See attached C-116.
- (9) All offset Operators have been notified by a copy of this application.

Continental Oil Company, P. O. Box 460, Hobbs, NM 88240  
Campbell & Hendrick, P.O. Box 401, Midland, TX 79701  
Texaco Inc. P. O. Box 728, Hobbs, NM 88240  
Sohio Petroleum Company, P. O. Box 3000, Midland, TX 79701  
Getty Oil Company, P. O. Box 249, Hobbs, NM 88240  
Apco Oil Company, P.O. Box 1027, Odessa, TX 79760  
Sun Oil Company, P. O. Box 1205, Hobbs, NM 88240  
Amerada Hess Corporation, P.O. Box 840, Seminole, TX 79360  
Marathon Oil Company, P. O. Box 2409, Hobbs, NM 88240  
Petro-Lewis Corporation, P. O. Box 509, Levelland, TX 79336  
Shell Oil Company, P. O. Box 1509, Midland, TX 79702  
Texas Pacific Oil Company, P.O. Box 4067, Midland, TX 79701

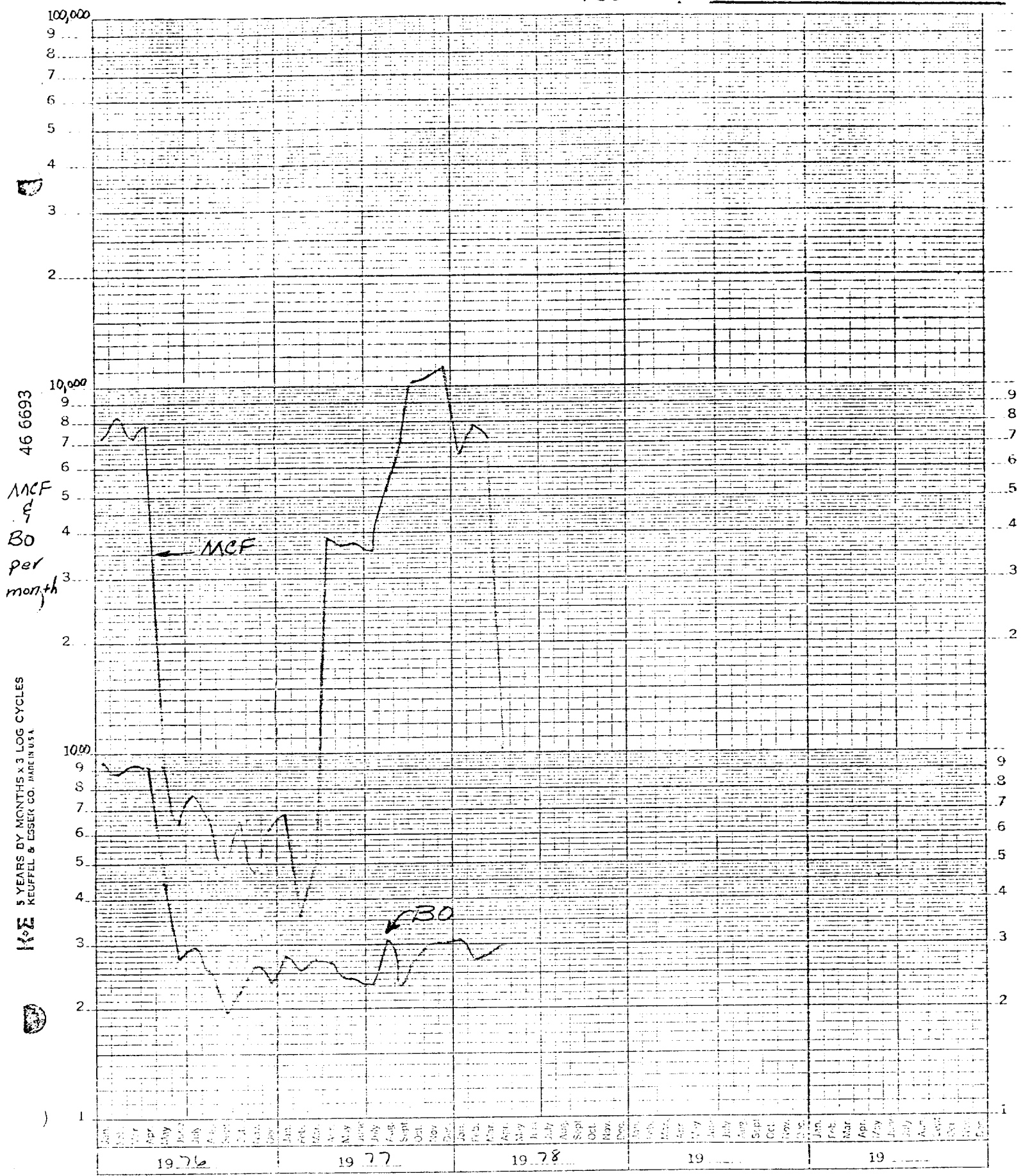
RECEIVED

JUL 26 1978

OH. CONSERVATION COMM.  
COLUMBUS, N. M.



Lease # 46693 P.O. # 1011111111111111  
 Pool: Drinkard



46 6693  
 MCF  
 &  
 BO  
 per  
 month

5 YEARS BY MONTHS x 3 LOG CYCLES  
 KEUFFEL & ESSER CO. JAREMUSA

RECEIVED

JUL 26 1978

FIL CONSERVATION COMM.  
ROSEMONT, ILL.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator **Gulf Oil Corporation**

Pool **Drinkard**

County **Lea**

Dress **P. O. Box 670, Hobbs, NM 88240**

TYPE OF TEST - (X)

Scheduled

Completion

Special

| 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/BSL |      |
|-----------------------|----------|----------|----|----|----|--------------|--------------|-------------|------------------|----------------------|-------------------|----------------|------------|---------------------------|------|
|                       |          | U        | S  | T  | R  |              |              |             |                  |                      | WATER BSL.        | GRAV. OIL BSL. | GAS M.C.F. |                           |      |
| L. T. Mattern (NCT-C) | 7        | J        | 18 | 21 | 37 | 7-10-78      | P 2 1/2" w/o | 25          | 10               | 24                   | 15                | 38.9           | 5          | 26.0                      | 5200 |

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

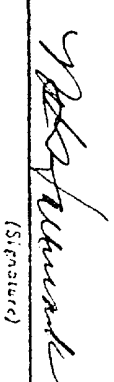
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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 303 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

July 26, 1978 (TUE)

RECEIVED

JUL 26 1978

WILDLIFE CONSERVATION COMM.  
HOBBS, N. M.

GLF: 3502  
 KDB: 3514.2  
 H = 12.2

Initial Comp. Date: 10-20-75  
 Producing Formation: Drk

| Zone             | Comp. Date      | Date Aband |
|------------------|-----------------|------------|
| <u>6520-6707</u> | <u>10-20-75</u> |            |
|                  |                 |            |
|                  |                 |            |
|                  |                 |            |

8 5/8" OD 24 # Grade K-55  
 Set @ 1295' w/ 500 sxs  
 Top of Cmt @ \_\_\_\_\_ by:  
 Cmt. circulated

Treatment History: (Current Zone)  
(10-3-75) Spot 200 gal 15% HCL across  
perfs 6520-6707. Straddle each set  
Drk perfs w/ 400 gal 15% HCL (Total cost 3.00)  
Frac w/ 60,000 gal 9.2 # gel brine +  
1-2 # 20-40 SPC in frac (Pot 52 B0, 90 B0)  
(2-4-77) Dump 1,000 gal mil-Drk  
Before 9B0, 20B0 After 10B0, 17B0

2 3/8" 4.70 # EUE BRD J-55 +bg

- = 5556-58 Proposed
- = 5574-96 Rincory
- = 5678-50 perforations
- = 5683-85
- = 5733-75
- = 5773-72
- = 5842-50

Producing History:  
 Formation: \_\_\_\_\_

| Month or Year | Oil | Wtr | Gas |
|---------------|-----|-----|-----|
|               |     |     |     |
|               |     |     |     |
|               |     |     |     |
|               |     |     |     |

Baker Mod. B' Tbg. Anchor  
 Set @ 6453 w/ 9,000 # -T  
 SN @ 6578'  
4' perf sub @ 6574'  
1 1/2" 2 3/8 BPOB  
 BTM Tbg 6613'

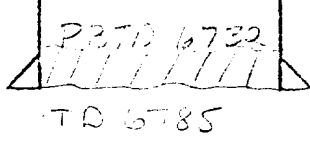
Last Test Dated: 2-10-78  
7 BOPD 17 BWPD 19  
 FL: \_\_\_\_\_ Calc. Ppg. Eff: \_\_\_\_\_

- = 6520-22
- = 6554-56 } DRK.
- = 6586-88 } 4-1/2" JHPF
- = 6656-58 }
- = 6673-75
- = 6691-93
- = 6705-07

Cum. Oil 12,587 BBL Cum. Gas 132,231 M

5 1/2" OD 15.50 # Grade K-55  
 Set @ 6773' w/ 650 sxs  
 Top of Cmt @ 4350 by TS  
 Cmt w/ 300 sxs CK C + 1%  
Gel + 2% NaCl + 2% CFR  
 Third in w/ 350 sxs CK H +  
1.5% CFR-2

Remarks and Recommendation:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



H. T. MATTERN (NCT-C) NO. 9

- (1) Gulf Oil Corporation  
P. O. Box 670  
Hobbs, NM 88240
- (2) Lease and Well No: H. T. Mattern (NCT-C) No. 9  
Unit P, 660'FSL & 710'FEL  
Section 7-21S-37E, Lea County, New Mexico
- (3) Well History: Well No. 9 was drilled to a total depth of 6785', with 5-1/2" OD production casing set at 6785'. Current PBTB is 6747'. On April 5, 1976 300 gal of 15% NE HCL inhibited acid was spotted from 6710-6425' and the 5-1/2" casing was then perforated w/2 .76" JHPF in the Drinkard interval 6524-6710'. Drinkard perforations were then treated with 2500 gal 15% NE HCL inhibited acid and frac treated with 10,000 gal 8.6#/gal gelled water pad plus 25,000 gal frac pad with 1/2 - 2# 20-40 SPG. Pumping equipment was installed on April 15, 1976 and the well potentialized for 23 BOPD and 17 BWPD on April 28, 1976.
- (4) Decline Curves: Drinkard Oil (Attached)
- (5) Bottom Hole Pressure Data:  

|                       |                           |
|-----------------------|---------------------------|
| Blinebry: Datum -2400 | Pressure @ Datum 675 psi* |
| Drinkard: Datum -2975 | Pressure @ Datum 850 psi* |

\*Estimates based on most recent available BHP data within vicinity of well and fluid level test.
- (6) Fluid Characteristics: Blinebry and Drinkard are presently being commingled down hole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8, Order No. R-5274, dated August 31, 1976. There has been no evidence of fluid incompatibility.
- (7) Value of Commingled Fluids: Blinebry and Drinkard production are presently being surface commingled on this lease per Administrative Order PC-517, dated September 8, 1975. Since production is already being commingled on the surface, downhole commingling will not affect the price.
- (8) Current Production Tests: See attached C-116.
- (9) All offset operators have been notified by a copy of this application.

Continental Oil Company, P. O. Box 460, Hobbs, NM 88240  
Campbell & Hendrick, P. O. Box 401, Midland, TX 79701  
Texaco Inc., P. O. Box 728, Hobbs, NM 88240  
Sohio Petroleum Company, P. O. Box 3000, Midland, TX 79701  
Getty Oil Company, P. O. Box 249, Hobbs, NM 88240  
Apco Oil Company, P. O. Box 1027, Odessa, TX 79760  
Sun Oil Company, P. O. Box 1205, Hobbs, NM 88240  
Amerada Hess Corporation, P. O. Box 840, Seminole, TX 79360  
Marathon Oil Company, P. O. Box 2409, Hobbs, NM 88240  
Petro-Lewis Corporation, P. O. Box 509, Levelland, TX 79336  
Shell Oil Company, P. O. Box 1509, Midland, TX 79702  
Texas Pacific Oil Company, P. O. Box 4067, Midland, TX 79701

RECEIVED

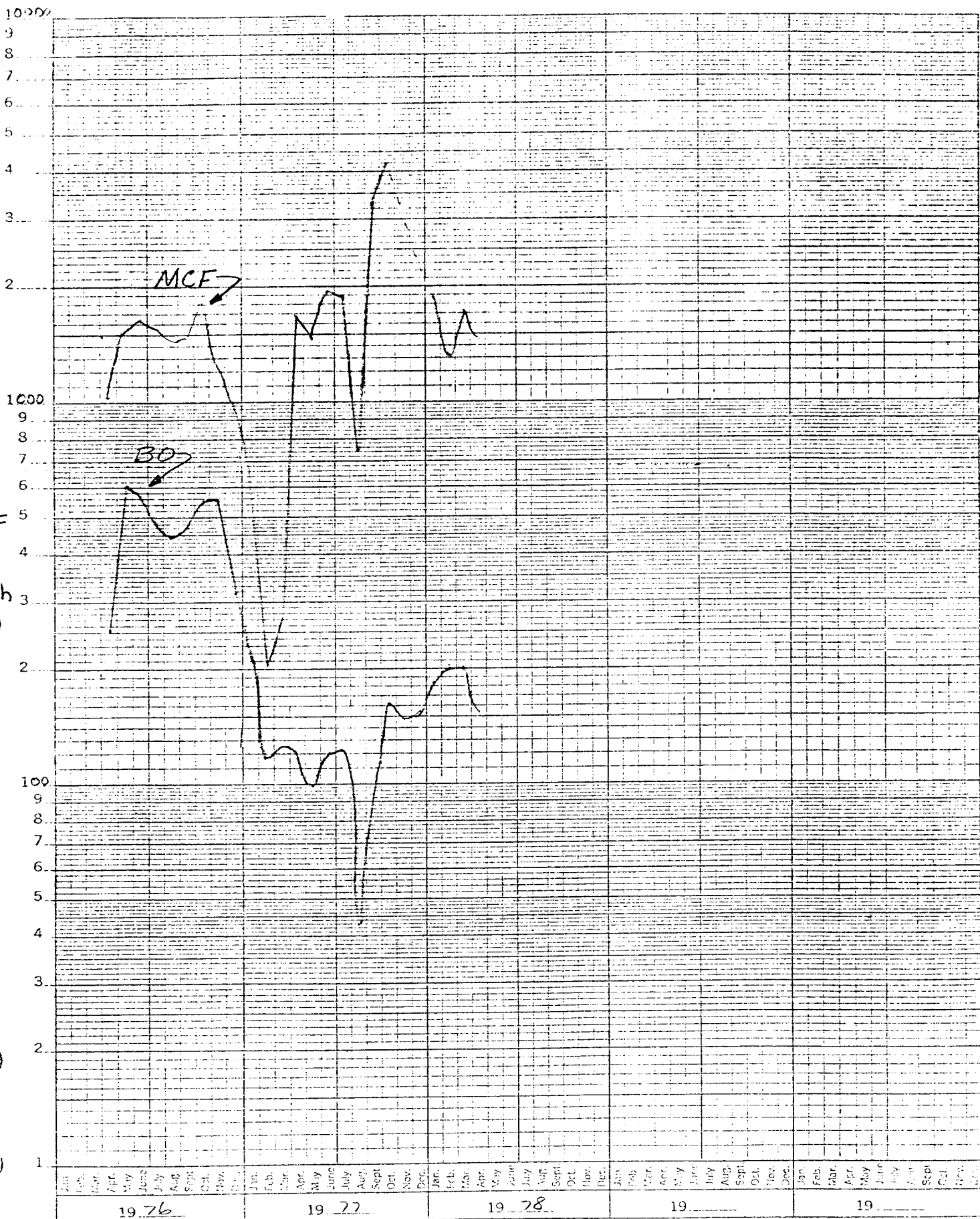
JUL 26 1978

OIL CONSERVATION COMM.  
HOBBS, N. M.

Pool Drinkard

46 6693  
MCF  
BO  
per  
month

5 YEARS BY MONTHS x 3 LOG CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.



19 76      19 77      19 78      19      19



RECEIVED

JUL 26 1978

CIL CONSERVATION COMM.  
HOBBS, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS - OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator Gulf Oil Corporation Pool Drinkard County Lea

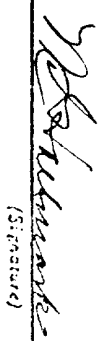
Address P. O. Box 670, Hobbs, NM 88240 TYPE OF TEST - (X)  Scheduled  Completion  Special

| 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/BSL |      |
|-----------------------|----------|----------|---|----|----|--------------|--------------|-------------|-----------------|----------------------|-------------------|----------------|------------|----------------------------|------|
|                       |          | U        | S | T  | R  |              |              |             |                 |                      | WATER BSL.        | GRAV. OIL BSL. | GAS M.C.F. |                            |      |
| H. T. Mattern (NCT-C) | 9        | P        | 7 | 21 | 37 | 7-12-78      | P 2 1/4" w/o | 25          | 10              | 24                   | 3                 | 37.2           | 6          | 31.0                       | 5167 |

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.

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

  
Well Tester  
July 26, 1978 (Tued)

RECEIVED

JUL 26 1978

OIL CONSERVATION COMM.  
HOBBS, N. M.

GLE: 3489

KDB: 3500.60  
 H = 11.60

Initial Comp. Date: 4-28-76  
 Producing Formation: Drk

| Zone             | Comp. Date     | Date Aband |
|------------------|----------------|------------|
| <u>6524-6710</u> | <u>4-28-76</u> |            |
|                  |                |            |
|                  |                |            |
|                  |                |            |

DV Tool @ 1289'

8 5/8" OD 24 # Grade K-55

Set @ 1320' w/ 500 sxs

Top of Cmt @ \_\_\_\_\_ by:  
 Circ 100SX

Treatment History: (Current Zone)  
(4-5-76) Spat 300gal 15% HCL from 6710-6975.  
Perf'd Drk. Trtd perf's 6524-6710 w/ 2500  
gal 15% HCL. Frac w/ 10,000gal 8.6# gel/dwt  
perd + 25,000gal frac w/ 1/2" - 2# 20-70 SPC.  
(POT 2366, 17BW)  
Equipped to pump 4-15-76.

2 3/8" 4.70# EUE BRD J-55 +bg

- = 5530-32 Proposed
- = 5586-33 Blinedry
- = 5632-34 perfor (1/2")
- = 5702-34
- = 5774-36
- = 5808-38
- = 5897-44

Producing History:

Formation: \_\_\_\_\_

| Month or Year | Oil   | Wtr   | Gas   |
|---------------|-------|-------|-------|
| _____         | _____ | _____ | _____ |
| _____         | _____ | _____ | _____ |
| _____         | _____ | _____ | _____ |

Last Test Dated: 7-12-78

6 BOPD 3 BWPD 31  
 FL: \_\_\_\_\_ Calc. Ppg. EFF: \_\_\_\_\_

Cum. Oil 16545 BBL Cum. Gas 35293 M

Guiberson Tbg Anchor Set @ 6428  
 w/ 12,000#-T  
 SN @ 6641  
 4' perf sub @ 6642  
 1 1/2" 2 3/8" Mud Anchor BPSB  
 BTM Tbg 6677

- = 6524-26 } Drk.
- = 6582-27 } 2.76" JHPF
- = 6625-27 }
- = 6673-30 }
- = 6708-30 }

5 1/2" OD 15.50 # Grade K-55

Set @ 16785' w/ 1000 sxs  
 Circ 25 SX

Top of Cmt @ \_\_\_\_\_ by  
 ① 400SX CLC 15% gel  
 400SX CLC cnt did not circ  
 ② 200SX CLC  
 Circ 25SX @ surface

Remarks and Recommendation:

FC 6777'-B  
 TC 6785'

Prepared By: S.B. Dumble

RECEIVED

JUL 26 1978

CIL CONSERVATION COMM.  
HARRIS, N. H.

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

- (1) Gulf Oil Corporation  
P. O. Box 670  
Hobbs, NM 88240
- (2) Lease and Well No: H. T. Mattern (NCT-C) No. 11  
Unit M, 376'FSL & 660'FWL  
Section 8-21S-37E, Lea County, New Mexico
- (3) Well History: Well No. 11 was originally drilled to a total depth of 6800' with 5-1/2" OD production casing set at 6800' (PBTD 6773'). On April 27, 1977 200 gal 15% NE HCL inhibited acid was spotted from 6742-6542' and the 5-1/2" casing was perforated w/2 .75" JHPF in the Drinkard interval 6690-6738'. Perforations 6690-6738' were then treated with 3000 gal 15% NE HCL inhibited acid. Production was noncommercial. On May 9, 1977, Drinkard perforations 6690-6738' were abandoned by cement squeezing with 250 sx Class "H" + 5# salt/sx + 1% Halad-3 and the casing was cleaned out to a new PBTD of 6724'. The 5-1/2" casing was again perforated w/4 1/2" JHPF in the Drinkard interval 6566-6714'. Perforations 6566-6714 were treated with 8000 gal 15% NE HCL inhibited acid and frac treated with 36,000 gal gelled water with 1 - 3# 20-40 SPG. Well was equipped to pump on June 9, 1977 and potential for 8 BOPD and 14 BWPD on July 8, 1977.
- (4) Decline Curves: Attached Drinkard Oil.
- (5) Bottom Hole Pressure Data:

|                       |                           |
|-----------------------|---------------------------|
| Blinebry: Datum -2400 | Pressure @ Datum 675 psi* |
| Drinkard: Datum -2975 | Pressure @ Datum 850 psi* |

\*Estimates based on most recent available BHP data within vicinity of well and fluid level test.
- (6) Fluid Characteristics: Blinebry and Drinkard are presently being commingled downhole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8, Order No. R-5274, dated August 31, 1976. There has been no evidence of fluid incompatibility.
- (7) Value of Commingled Fluids: Blinebry and Drinkard production are presently being surface commingled on this lease, per Administrative Order PC-517, dated September 8, 1975. Since production is already being commingled on the surface, downhole commingling will not affect the price.
- (8) Current Production Tests: See attached C-116.
- (9) All offset operators have been notified by a copy of this application.

Continental Oil Company, P. O. Box 460, Hobbs, NM 88240  
Campbell & Hendrick, P. O. Box 401, Midland, TX 79701  
Texaco Inc., P. O. Box 728, Hobbs, NM 88240  
Sohio Petroleum Company, P. O. Box 3000, Midland, TX 79701  
Getty Oil Company, P. O. Box 249, Hobbs, NM 88240  
Apco Oil Company, P. O. Box 1027, Odess, TX 79760  
Sun Oil Company, P. O. Box 1205, Hobbs, NM 88240  
Amerada Hess Corporation, P. O. Box 840, Seminole, TX 79360  
Marathon Oil Company, P. O. Box 2409, Hobbs, NM 88240  
Petro-Lewis Corporation, P. O. Box 509, Levelland, TX 79336  
Shell Oil Company, P. O. Box 1509, Midland, TX 79702  
Texas Pacific Oil Company, P. O. Box 4067, Midland, TX 79701

RECEIVED

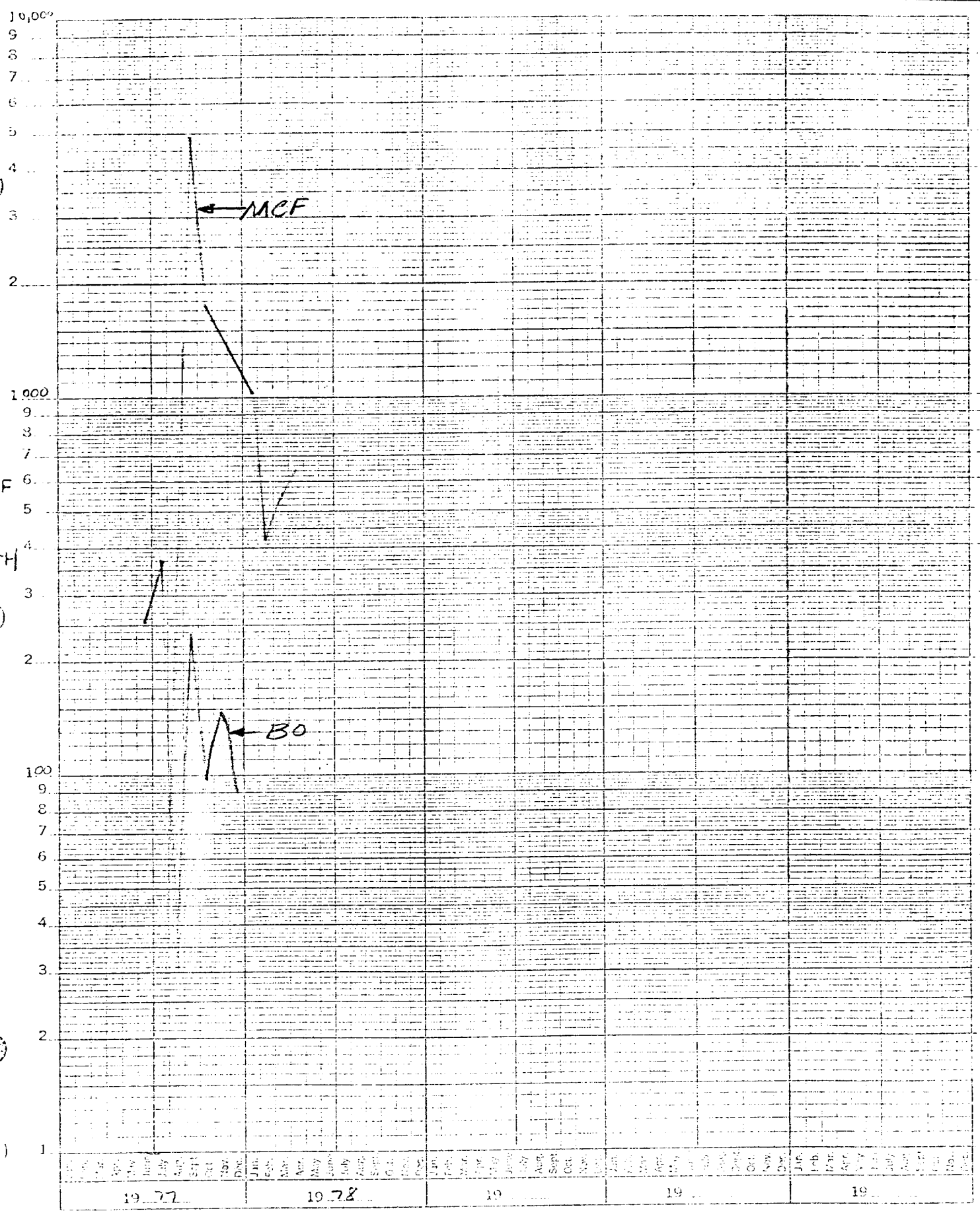
JUL 26 1978

FIL CONSERVATION COMM.  
HOBBS, N. M.

Pool: Drinkard

MCF  
BO  
per  
month

5 YEARS BY MONTHS x 3 LOG CYCLES  
KEUFFEL & ESSER CO. MADE IN U.S.A.





RECEIVED

JUL 26 1978

OIL CONSERVATION COMM  
HONOLULU, H. I.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

Call 116  
Revised 1-1-65

Operator: Gulf Oil Corporation  
Pool: Drinkard  
County: Lea  
Lea

Address: P. O. Box 670, Hobbs, NM 88240  
TYPE OF TEST - (X)  
Scheduled  Special

| 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./BSL. |            |      |
|-----------------------|----------|----------|---|----|--------------|------------|--------------|------------------|----------------------|-------------------|-----------|-----------|-----------------------------|------------|------|
|                       |          | U        | S | T  |              |            |              |                  |                      | WATER BALS.       | GRAV. OIL | OIL 9DLS. |                             | GAS M.C.F. |      |
| H. T. Mattern (NCT-C) | 11       | M        | 8 | 21 | 37           | 7-13-78    | P 2 1/2" w/o | 25               | 5                    | 24                | 9         | 37.2      | 9                           | 22.0       | 2444 |

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.  
Well original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 303 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  
July 26, 1978 (TUD)

RECEIVED

JUL 26 1978

OIL CONSERVATION COMM.  
HOBBBS, N. M.

GLE: 3495

KDB: 3511.55

H = 16.55

Initial Comp. Date: 4-27-77

Producing Formation: Drk

| Zone             | Comp. Date     | Date Rba      |
|------------------|----------------|---------------|
| <u>6690-6738</u> | <u>4-27-77</u> | <u>5-9-77</u> |
| <u>6566-6714</u> | <u>7-8-77</u>  |               |
|                  |                |               |
|                  |                |               |

8 5/8" OD 24 # Grade K-55

Set @ 1312' w/ 350 sxs

Top of Cmt @ \_\_\_\_\_ by:

OV @ 3296'

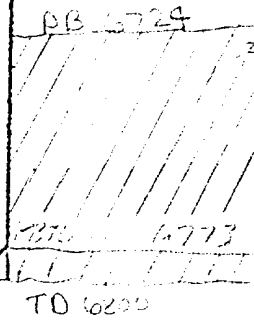
**Treatment History: (Current Zone)**

(4-27-77) 200 gal 15% HCL spotted over.  
 6792-6542 Trtd perf 6690-6738 w/ 3000 gal 15% HCL  
 (5-10-77) Trtd 6566-6714 w/ 8000 gal 15% HCL  
 Frac w/ .36, 000 gal gel water 1-3 #5 PG  
 POT Pp 8 Bbl 14 Bbl  
 Jan. 9 1977 Equipped to pump

← 2 3/8" 4.70# EUE BRD J-55 + b9

- SN @ 6653
- 4' perf sub @ 6654
- 1 1/2" 2 3/8" w/ mud anchor + BPOB
- BTM + b9 6689
- 5078-80
- 5092-84 Proposed
- 5378-80 Blinobry
- 5411-83 per treatment
- 5411-85

- 6566-68 } Drk
- 6600-02 } 4-1/2" JHPF
- 6690-92 }
- 6712-14 }



- 6690-92 } Drk
- 6712-14 } 2-75" JHPF
- 6736-38 } 832 w/ 2500x CLH + 1% Hald 3+5" salt 15x

5 1/2" OD 15.50 # Grade J-55

Set @ 6200' w/ 2135 sxs

Top of Cmt @ \_\_\_\_\_ by:

- 3000x CLC + 6 1/2" gel +
- 420 SX CLC neat
- circ 35 SX cut out ov
- 1367 SX CLC + 16" gel +
- 100 SX CLC
- circ 200x to surface

**Producing History:**

| Formation: | Month or Year | OIL | WTR | GA |
|------------|---------------|-----|-----|----|
|            |               |     |     |    |
|            |               |     |     |    |
|            |               |     |     |    |
|            |               |     |     |    |

Last Test Dated: 7-13-78  
9 BOPD 9 BOPD 22  
 FL: \_\_\_\_\_ Calc. Ppg- Eff: \_\_\_\_\_

Cum. Oil 1235 BBL Cum. Gas 9361 MCF

**Remarks and Recommendation:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prepared By: L.B. Dyerhoe  
7-16-78

RECEIVED

JUL 26 1978

OIL CONSERVATION COMMISSION  
HOBBBS, N. M.