

Gulf Oil Exploration and Production Company

October 11, 1978

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670
Hobbs, NM 88240

OCT 12 1978

Re: H. T. Mattern (NCT-C) No. 12,
Section 8-21S-37E, Lea County,
New Mexico - Request for Approval
to Downhole Commingle Blinebry
and Drinkard Pools

DHC - 263

Due - 11/1/78

Mr. Joe D. Ramey
State of New Mexico
Energy & Minerals Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 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 well bore. Ownership of the two pools in the subject well is common and correlative rights will not be violated.

Currently Well No. 12 is temporarily abandoned in the Drinkard Pool by a cast iron bridge plug at 6500' and temporarily abandoned in the Tubb Pool by a cast iron bridge plug at 6100'. A single pumping unit installation is used to produce fluids from the Blinebry Pool. Upon approval to downhole commingle, we will drill out the abandonment plug at 6100', squeeze cement the Tubb perforations, drill out the cement retainer and cement, test squeeze work, drill out the abandonment plug at 6500' and downhole commingle the Drinkard and Blinebry Pools.

We propose to tube the well to the Drinkard and utilize the existing pumping equipment to lift the fluids of the commingled zones.

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

Yours very truly,

R. C. Anderson
R. C. ANDERSON

LBI:ptg
Att'd.

cc: See attached sheet



A DIVISION OF GULF OIL CORPORATION

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

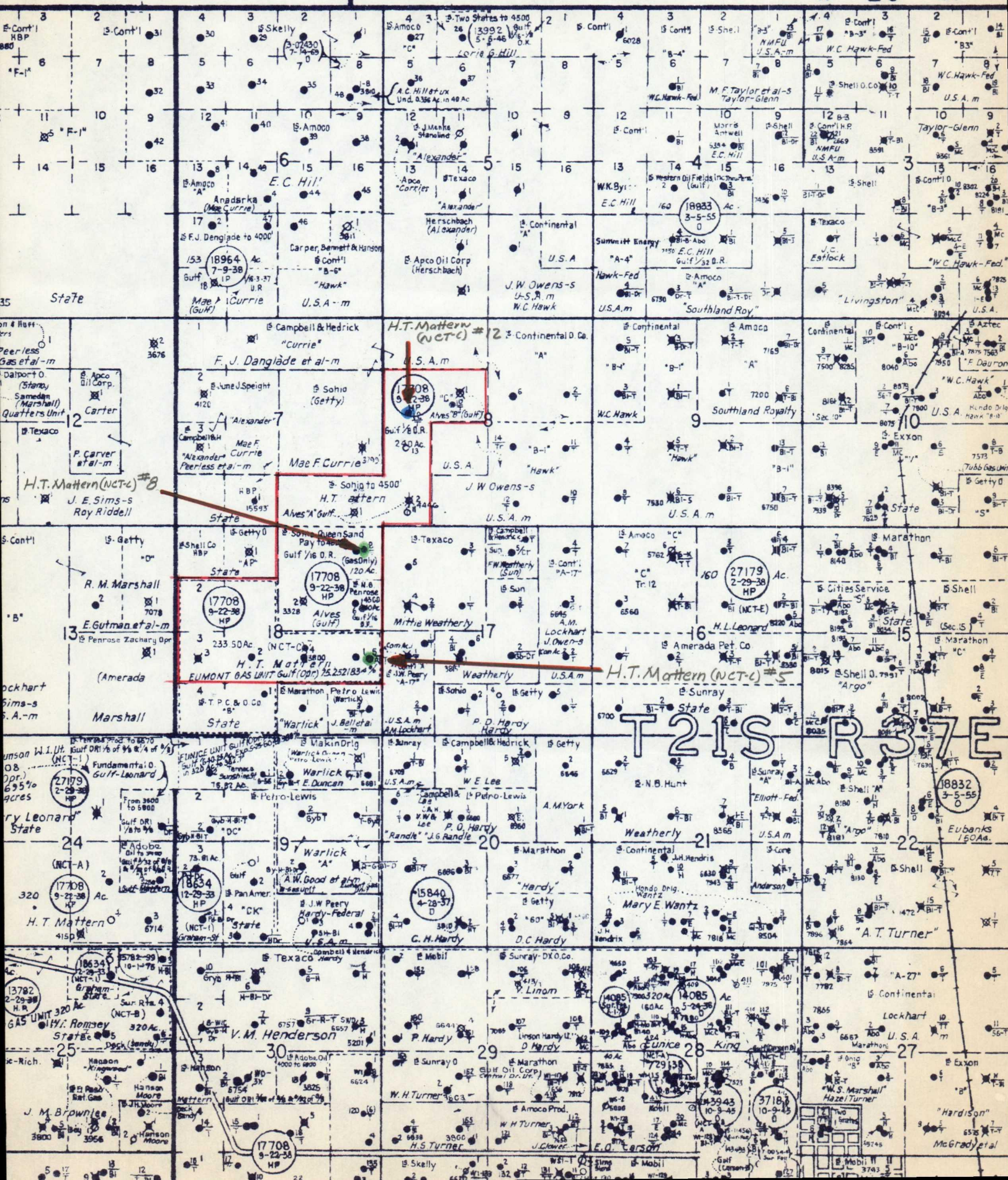
bcc: C. F. Kalteyer - Midland
Gene Cox - Midland
Proration Unit - Midland

- Gulf well proposed dnc in Ork. + B.C. Pools

T. 20 S. -

EUMONT HARDY UNIT
Continental Oil (Oper.)
Gulf 0.89942 % 3.02445-00

Below SA



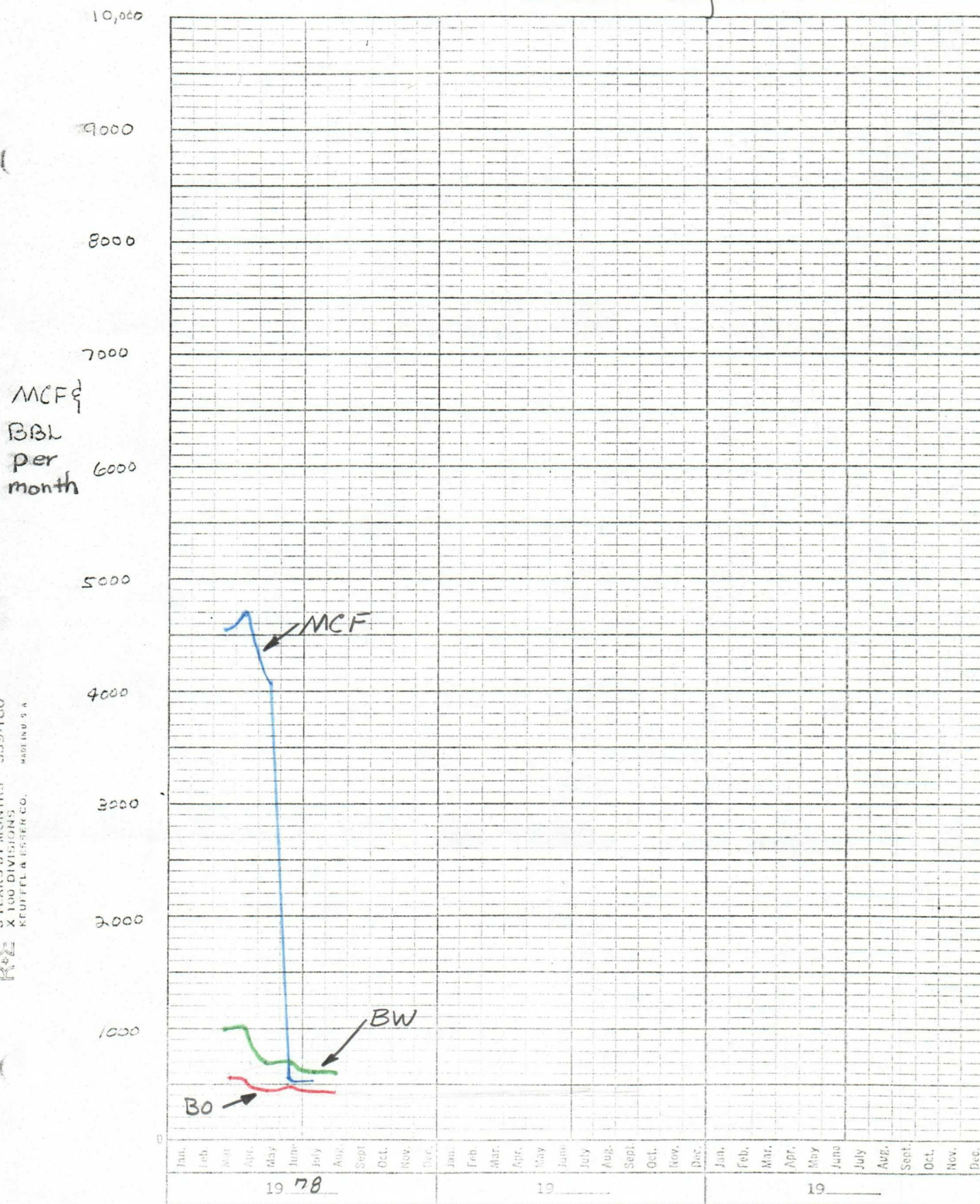
1. Operator: Gulf Oil Corporation, Box 670, Hobbs, N.M. 88240
2. Lease and Well No.: H. T. Mattern (NCT-C) Well No. 12, Unit E, Section 8-21S-37E, Lea County, New Mexico
3. Well History: Well No. 12 was drilled to a total depth of 6800' with 5½" production casing set at 6800'. On June 21, 1977, the 5½" casing was perforated with 2, ½" JHPF in the Drinkard interval 6738-40'. The interval 6738-40' was then treated with 250 gallons 15% NEHCL acid. On June 27, 1977 additional Drinkard zones were added by perforating the 5½" casing with 2, ½" JHPF in the interval 6567-6720. The interval 6567-6720' was then acidized with 2,084 gallons 15% HCL acid and fraced with 20,000 gallons 8/6#/gal gelled water plus 1-21/3# 20-40 SPG. The well was equipped to pump on July 12, 1977, and the Drinkard potentialed on August 24, 1977 for 15 bopd and 12 bwpd, pumping. The Drinkard was abandoned on January 4, 1978 by setting a CIBP at 6500' and the production casing was then perforated with 2, ½" JHPF in the Tubb interval 6170-6424'. The Tubb was acidized with 4,000 gallons 15% NEHCL acid. Production was non-commercial. The Tubb was abandoned on January 31, 1978 by setting a CIBP at 6100' and the production casing was again perforated with 2, ½" JHPF in the Blinebry zone 5570-5862'. The Blinebry was acidized on February 2, 1978 with 5,000 gallons 15% NEHCL acid and fraced on February 6, 1978 with 60,000 gallons gelled water, 57,000# 20-40 sand and 27,000# 100 mesh sand. The Blinebry potentialed on March 13, 1978 for 32 bopd, 120 MCFGPD and 59 bwpd, pumping.
4. Decline Curves: Drinkard Oil and Blinebry Oil (attached).
5. Bottom Hole Pressure Data:
Blinebry: Datum -2184; pressure at datum 675 psi*
Drinkard: Datum -3132; pressure at 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) Nos. 5 and 8 wells, Order No. R-5274 dated August 31, 1976. There is 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 effect the price.
8. Production Tests: See attached C-116
9. All offset operators have been notified by a copy of this application.

LBI:ptg
10-3-78

Bottom of 6740 = 40 BOPD max

*Bl Oil 57% Gas 18%
Dr Oil 43% Gas 82%*

Lease/well Mattern (NET-C) #12
 Pool Blinberry



3 YEARS BY MONTHS 359-180
 X 100 DIVISIONS
 KEUFFEL & ESSER CO. MADE IN U.S.A.

500 mcf
 400 BBL
 1250 GOR

Lease/well
Pool

Mattern (NCT-C) #12
Drinkard

13,691

MCF

MCF
BBL
per
month

3 YEARS BY MONTHS 359-180
X 100 DIVISIONS
KEUFFEL & ESSER CO. NADIR, S.A.

10,000

9000

8000

7000

6000

5000

4000

3000

2000

1000

0

BW

BO

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												
10 77												10 78												10											

2300 MCF
300 BO

7667 GOR

Lease H.T. Mattern (NCTC) Well No. 12 Pool Blinebry
Location 2310 FNL + 660 FWL 8-21S-37E County Lea State NM

GLE: 3522

KDB: 3532.4
H = 10.40

Initial Comp. Date: June 23, 1977
Producing Formation: Drinkard

Zone	Comp. Date	Date Aband
6738-40	6-23-77	1-4-78
6567-720	6-28-77	1-4-78
6170-424	1-4-78	1-31-78

8 5/8" OD 24 # Grade K-55 ST+C

Treatment History: (Current Zone)
(6-21-77) Perf'd 6738-40.

Set @ 1354' w/ 550 sxs

15% NEHCL. Pumped 250 gal. acid

Top of Cmt @ Surface, circ. by: 40 sxs

(6-27-77) Perf'd 6718-6569. Acidize w/
2084 gal 15% NEHCL

2 3/8" 4.70" EUE 8RD J-55
Guiberson Anchor @ 5541'
Set w/ 8,000#-T
11 Jts ditto +bg
SN @ 5887
3' perf nipple @ 5888
1jt. ditto +bg mud arch
BPOB. BTM Tbg @ 5922

(6-29-77) Est IRW/4,000 gal 8.6 #/gal frac
16,000 gal gels wtr. w/ 1-2 3/4" 20-40 s PG

(7-12-77) Equip to pump

(8-24-77) POT pad 15 BOPD + 12 BWPD

(1-4-77) Perf'd 6170-6424. Ppd 4,000 gal acid

(2-1-78) Perf'd B1.5570-5862

(2-2-78) Trd Bl. w/ 5000 gal 15% NEHCL

(2-6-78) Frac Bl. w/ 57,000# 20-40 sand,

27,000# 100 mesh + 60,000 gal gels wtr.

(3-13-78) POT 32 BOPD + 59 BWPD + 120 MCFD

DV TOOL
@ 3094

5570-72
5596-98
5626-28
5658-60
5686-88
5728-30
5760-62
5790-92
5830-32
5860-62

Blinebry

2-1/2" JHPF

CIBP @ 6100'

6170-72
6296-98
6330-32
6359-61
6422-24

Tubb

2-1/2" JHPF

CIBP set @ 6500'

6567-69
6695-97
6718-20
6738-40

Drinkard

2-1/2" JHPF

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

Set @ 6800' w/ 2125 sxs

Top of Cmt @ Surface, circ. by: ?

① 400sx CL"C" + 6% Gel
425sx CL"C"

② 1200sx CL"C" + 6% Gulfmix
100sx CL"C" neat

Producing History:

Formation: _____

Month or Year	Oil	Wtr	Gas
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Last Test Dated: _____

BOPD

BWPD

FL: _____ Calc. Ppg. Eff: _____

Cum. Oil _____ Cum. Gas _____

Remarks and Recommendation:

Recommend to squeeze full
perforations DHC Blinebry w/ Drinkard

Prepared By: L.B. Ivanhoe

Date: 10-1-78

C-116
Revised 1-1-65

(Pace)

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 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.

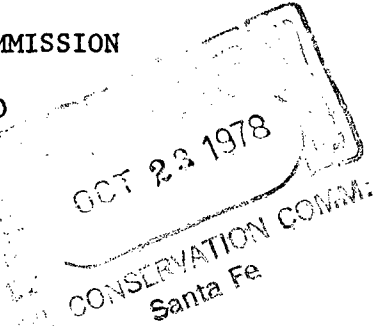
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

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.

10-3-78 (Tue)

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO



DATE Oct. 20, 1978

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Gulf Oil Corp. H. T. Mattern NCT-C #12-E 8-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

Jerry Sexton
me