

Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

July 26, 1978

DHC # 256

P. O. Box 670
Hobbs, NM 88240

Due: 8/16/78

JUL 27 1978

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

#9 is adjacent
to both the
Blinebry oil & gas
and Drinkard Pools

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



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in Wells No. 7, 9 and 11 will need to be artificially lifted. Upon approval of this application and in the event that the Blinbry 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

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 PBD 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*

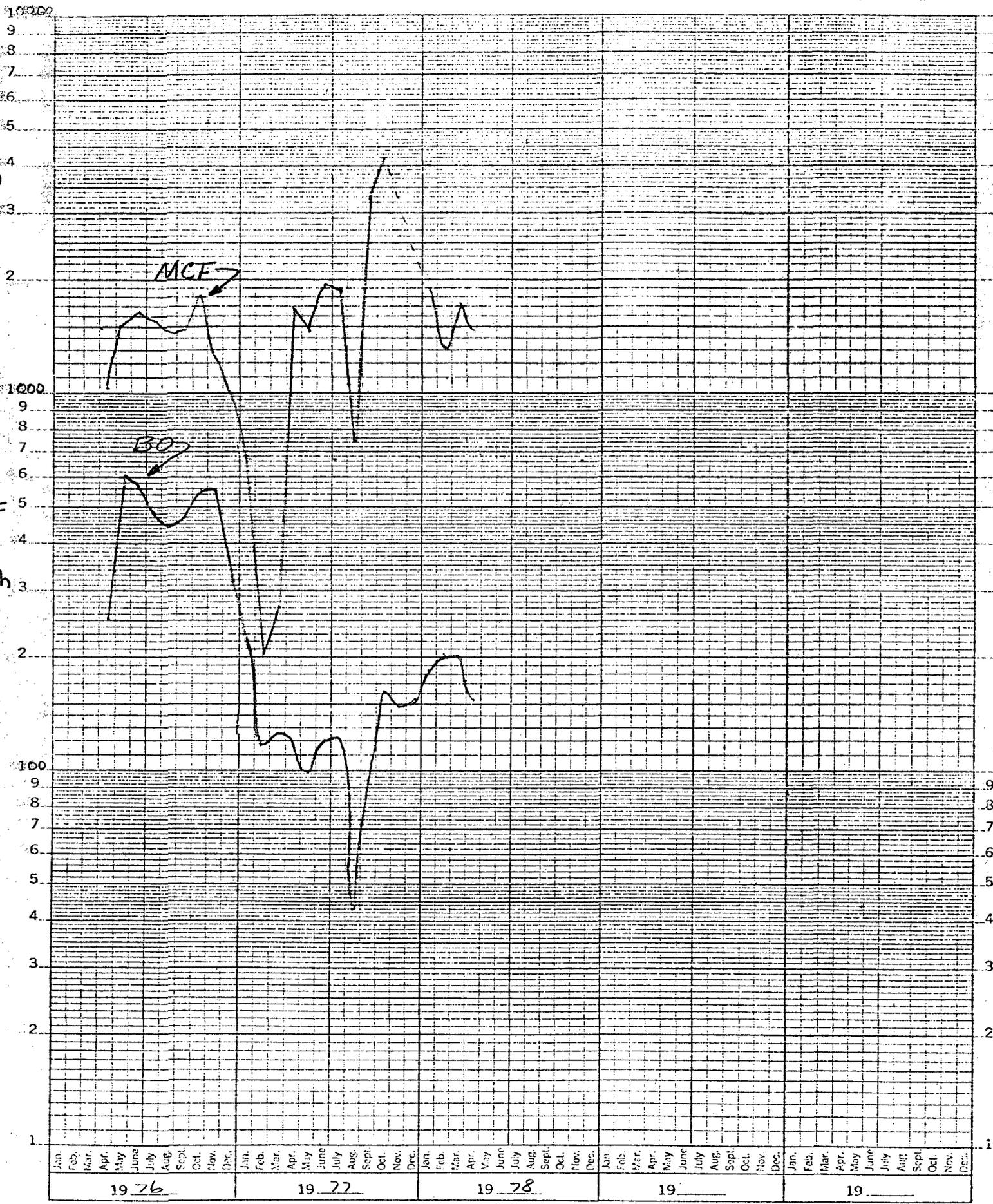
*Estimates based on most recent available BHP data within vicinity of well and fluid level test.
- (6) Fluid Characteristics: Blinebry and Drinkard are presently being commingled down hole in Gulf's H. T. Mattern (NCT-C) Wells No. 5 and 8, Order No. R-5274, dated August 31, 1976. There has been no evidence 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

46 6693

MCF
BO
per month

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



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) <input checked="" type="checkbox"/> TEST - (X)		Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
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 BBLs.	GRAV. OIL BBLs.	GAS M.C.F.		
H. T. Mattern (NCT-C)	9	P	7	21	37	7-12-78	P 2 1/2" 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 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.
 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.

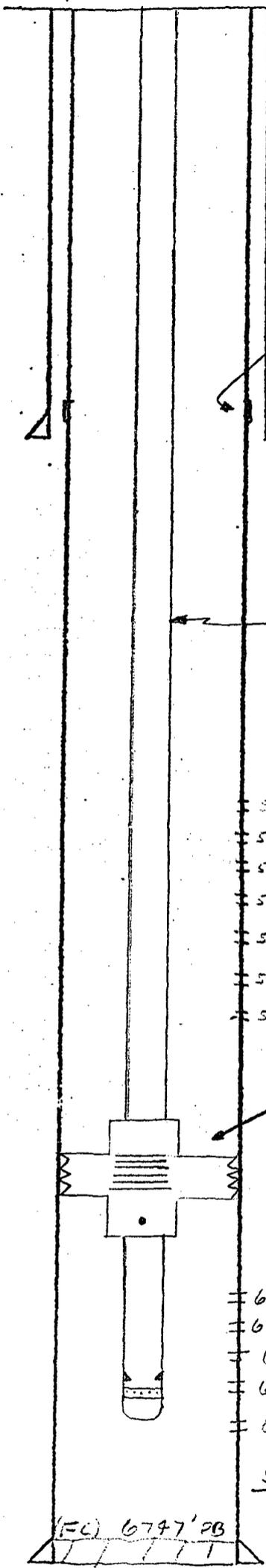
[Signature]
 Well Tester
 July 26, 1978 (Tud)

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>	



PV Tool @ 1289'

8 5/8" OD 24 # Grade K-55
 Set @ 1320' w/ 500 sxs
 Top of Cmt @ _____ by:
 Circ 100 SX

← 2 3/8" 4.70 # EUE BRD J-55 +bg

- = 5530-32 Proposed
- = 5586-89 Blinedry
- = 5632-34 perforations
- = 5702-04
- = 5744-46
- = 5808-10
- = 5894-96

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

- = 6524-26 } Drk.
- = 6582-84 } 2.76" IHPF
- = 6625-27 }
- = 6678-80 }
- = 6708-10 }

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

Set @ 6785' w/ 1000 sxs
 Circ 25 SX
 Top of Cmt @ _____ by
 ① 400SX CLC 16% gel
 400SX CLC cnt didn't circ.
 ② 200SX CLC
 Circ 25SX @ surface

(FC) 6747' PB
 TD 6785'

Treatment History: (Current Zone)
(4-5-76) Spot 300gal 15% HCL from 6710-6925
Perf'd Drk. Trtd perfs 6524-6710 w/ 2500
gal 15% HCL. Frac w/ 10,000gal 8.6# gel/dwt
per + 25,000gal frac w/ 1/2-2# 20-90 SPC.
(POT 2386, 17BW)
Equipped to pump 4-15-76.

Producing History:

Formation: _____

Month or Year	Oil	Wtr	Gas

Last Test Dated: 7-12-78
6 BOED 3 BWPD 31
 FL: _____ Calc. Ppg. EFF: _____

Cum. Oil 10545 BBL Cum. Gas 35298

Remarks and Recommendation:

