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, <u>New Mexico</u> 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



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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 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

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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 PBTD 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 potentialed 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 6/5 psi*	
	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

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Lease H.T. Mattern (NCT-C) Well No. 7 Pool Drinkard Un + 5 Location 2130 FSL \$ 1980 FEL Sec 18-215-37 Ecounty Lea State NM CLE: 3502 NDB: 35/4.2 10-20-75 Initial Comp. Date: H = 12.2 Drk Producing Formation: Zone Comp. Date Date Aband 6520-6707 10-20-75 Treatment History: (Current Zone) (10-3-75) Spot 200acl 15% HCLanos Set @ 1295' W/ 500 sxs perfs 6520-6767. Straddle each set drk perts w/ 400gal 15% HCL (Totalouil 3.00 Top of Cmt @ ·by: Frac w/ 60,000 gal 9.2 #gel bring + Cmt-circulated 52 BO, 90BL 1-2# 20-00 SPC in frac (POT 52 BC (2-4-77) Dump 1,000ard and -Drk Refore 9BO, 20BIN After 10BO, 17BW 2 4.70 " EUE BRd J-55+bg . . 5556-58 Proposed 5294-95 Rincory 16+8-50 Perforations ۲ 5033-25 5733-77 Producing History: : = >>> - 72 5847 - 50 Formation: Baker Mod. B' Tbg. Anchor Se+@ 64 53 w/ 9,000 #-T Month or Year Oil Wtr Gas SN@ 6578' 4' perfsub@ 6579' 1j+2"8 BP0B ____ . BTM TOG 6613' Last Test Dated: 2-10-78 6520-22 Delia C BODD 19 DRK. 6554-56 FL: __ Calc. Ppg. Eff: 117 6586-88 4-5" JHPF 6656-58 6673-75 Cum. 011 2 587 BBL Cum. Gas13281 M 6-91-93 10705-07 Remarks and Recommendation: 52"0D 15.50# Grade K-55 Set @ 10773 ' W/ 650 SXS-3,712 6.7.22 Tep of Cmt @ 2350 by TS ent w/ 300 5x Ch C + 15% TD 5785 Gel + 2% NACL + 2% SFR2 Thild in wy 350 SX Ch H + . 5 %. CFR-2 Prepared By: 23 Action Ke

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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 PBTD 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 potentialed 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

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Lease H.T. Mattern (NCT-C). Well No. 9 Pool Drinkard Location 660 FSL & 710 FEL Sec7-215-37E County Lea State NM CLE: 3489 KDB: 3500.60 Initial Comp. Date: <u>4-28-76</u> H = 11.60Producing Formation: Drk Zone Comp. Date Date Aband 6524-6710 4-28-76 DV Tool @ 1289' Treatment History: (Current Zone) (4-5-76) Spat 300gal 15% HCL from 6710-6475 8= "00 24 # Grade <u>K-55</u> Set @ 1320 ' w/ 500 sxs Partid Ort. Tr+d perfs 6524-6710 w/ 2500 and 15% HCC. Frac w/ 10,000 gal 8.64 geldwith Top of Cmt @ by: part + 25,000gal frac (1) + - 2#20-4050C. Circ 100 SX (POT 2380, 178W) auprot to pump 4-15-76. - 2 3 4.70 # EUE and J-55+bg 3730-32 Proposed 5586-33 Blinsbry 5632-34 performany 5702.04 Producing History: 5744-46 Formation: 5808-10 5894-95 Month or Year Oil Wtr Gas Ecilerson Tbg Anchor Set@ 6428 W/12,000#-T SN@ 6641 41 perfsul 6642 1j+ 2³¹9 Mud Anchor BPOB Last Test Dated: 7-12-78 BTA The 6677 . 6 BOPD <u>3</u> BWPD 3/ 1 FL:_____ Calc. Ppg. Eff:_____ 6524-26 Drk. 6582-34 (2.76" JHPF Cum. 011 (-545 BBL Cum. Gas 35298 A) 6625-27 6673-80 6703-10 Remarks and Recommendation: 52 "00 15-50 # Grade K-55 Set @ 10785 ' W/ 1000 SXS =: 6777'-B Top of Cmt @_____ by TD 6785' O 400 SX CL C 16% jet 400 SX CL C ent didnet circ B 2003X CL Circ 255×@ Surfact Prepared By: S.B. Surmhie

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- (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 potentialed 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.

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Actess P. O. Box 670, Hobbs, NM	M 88240	õ					TYPE	- 0 - 1 X	- Sche	Scheduled		Compl	Completion	د ۲	Spet	Special X
-	WELL		Loc,	LOCATION		DATEOF	rvs	CHOX F	TBG.			υ	PROD. DURING		TEST	
LEASE NAME	NO.	c	5	-	פל	TEST	STA	SIZE	P.RESS.		TCST HOURS	WATER Bals.	OIL	Bers	0.75 M.C.F.	CU.FT/BBL
H. T. Mattern (NCT-C)	11	М	œ	21	37	7-13-78	ਸ	2"w/o	25	لت ا	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. Duirg gasail 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. Can volumes must be reported in MCF measured at a pressure base of 15.025 psig and a temperature of 60° F. Specific gravity base	weble grea well shall wfor is enc y the Comπ n MCF me:	ter the be pr ouruge ulssion	n the em d to tak	in a rate a advant s sure ba	bil produ not exc age of th	ced on the offici eeding the top t ils 25 percent to 025 pela and 4 i	lal te unit a olera	erature of a	or the poo r that wes 50° F. Spe	pool in which well is well can be assigned Specific gravity base	all is igned	I h is tru ledge	I hereby certify is true and comp ledge and belief.	ertify th complete clief.	at the abo	I hereby certify that the above information is true and complete to the best of my know- ledge and belief.
Report casing pressure in lieu of tubing pressure for any well producing through casing. Kall original and one copy of this report to the district office of the New Mexico Oli Conservation Commis Rule 301 and appropriate pool rules.	d tubing pr this report	to the	for any v district	vell prod office o	ucing the	ough casing. w Nexico Oll Co	onter	vation Con		flon in accordance with	• with		R	21	(Signature)	
												July	July 26, 19	1978 (7:4.0)	(Tide)	

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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

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JUL 2 6 1978 CIL CONSERVATION COMM. HODDS, N. M.

Location 410FSL 4660 FWL 5 8-215-37E County Lea State NM CLE: 3495 KOB: 3511.55 Initial Comp. Date: 4-27-77 H = 16.55Producing Formation: Drte Comp. Date Date Aba Zone 4-27-77 5-9-77 6690.6738 6566-6719 7-8-77 85/8"OD 24 # Grade K-55 (4-27-77) 200 gal 15% HCL spotted aver. Set @ 13/2 1 1/ 350 sxs 6742-6542 . Tr+d perfs 6690-67.38 w/ 3000 COCIS LOHCE (5-10-77) Tr+d 1,566-6714 w/ 8000 yal 15%, HC Fracul 36, oregul relate 1-3#5PG DV@ 3296' POT POSBO 12BW June 9197 Eauport to puno -2³¹8"4.70# EUE RRd J-55+69 SN@ 6653 4' perfsul @ 6654 11+ 2 318 if mud archor + BPOB BTM+69 6689 5042.44 Proposed 5578-00 Blindbry وللانيجتيجيني المصارم المسارات Producing History: Formation: 6566-68 Month or Year Oil Ntr Ga SHPF 6600-02 6690-92 6712-14 Last Test Dated: 7-13-78 9 BOPD 9 BWPD 22 FL:_____ Calc. Ppg_ Eff:____ Drk £6690-92 . 2-.75" JHPFszdw/ 2505x chy Cum. OIL 1235 BBL Cum. Gas 36/11 6712-14) + 10% Halad 3+5" sait 15x 6726-38 Remarks and Recommendation: 5 2 "OD 15.50 # Grade J-55 Set @ 6800 ' w/2135 sxs Set @ <u>10/10</u> Circ 20 5x Top of Cmt @ 9 3005x ChC + 6 1/2 gef + 420 5x ChC + 6 1/2 gef + circ 35 5x cht at or 1 365 5x ChC + 161/2 gef + 1005 x ChC + 6 surface Ъу: TO 6200 . Prepared By: J. B. J. Tar hoe

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JUL **2 6** 1978

CIL CONSERVATION OF THE HOBBS. N. M.