Gulf Energy and Minerals Company-U.S.

PRODUCTION DEPARTMENT HOBBS AREA

C. D. Borland AREA PRODUCTION MANAGER

October 12, 1976

P. O. Box 670 Hobbs, New Mexico 88240

Re: H. T. Mattern (NCT-B) No. 18 Unit O, Section 30-21S-37E, Lea County, New Mexico

Mr. Joe D. Ramey New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501

Dear Sir:

.

Your administrative approval is requested for an exception to Rule No. 303-C-2 as provided for under Order No. R-5273 to permit down-hole commingling of marginal Blinebry and Drinkard production in the subject well. The Blinebry and Drinkard production on this lease is currently down-hole commingled in the well bore of Well No. 16 under Order No. R-5273.

There is no evidence of fluid incompatibility and we do not expect any waste or reservoir damage due to down-hole commingling in the well bore. Ownership in the two pools is common, and correlative rights will not be violated. Down-hole commingling will allow the recovery of additional hydrocarbons from this well. Both zones will have to be pumped.

The subject well was deepened and completed in the Drinkard zone early in 1976. Attached is the completion history of the Drinkard zone, as well as the latest well test. (Also attached is the last recorded well test on the Blinebry zone as well as a three year decline curve.)

Upon completion of the subject well and as provided for under Order No. R-5273, Gulf will consult with the Supervisor of the Hobbs District Office of the Commission to determine an allocation formula.

Should secondary recovery operations become practical in the future, the two zones could be separated at that time without damaging either reservoir.

Also attached are other pertinent data regarding this application as outlined in Rule 303-C-2.

Yours very truly,

C. D. BORLAND

Attachments ROWo/dch



- (1) Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, NM 88240
- (2) Lease: H. T. Mattern (NCT-B) No. 18, Section 30, T-21-S, R-37-E, Unit 0, Lea County, New Mexico
- (3) Well History, Production History, Decline Curve and Latest Tests:

The H. T. Mattern (NCT-B) No. 18 was deepened to the Drinkard zone between March, 1976 to May, 1976 and a 4" liner set. The well was perforated in 6 - 3' zones between 6487' and 6722' with 4-1/2" JHPF, acidized and frac stimulated. The well was equipped to pump and initial production 5-6-76 was 50 BOPD and 55 BWPD. Last Well test 9-23-76 was 16 BOPD and 31 BWPD.

Decline curves and production history for both zones, along with the latest C-ll6 are attached.

(4) Bottom Hole Pressure Data:

Blinebry: Datum - 1991 Pressure @ Datum 800 PSI* Drinkard: Datum - 2975 Pressure @ Datum 1060 PSI*

*Estimates based on most recent available average BHP data within _vicinity of well.

(5) Fluid Characteristics:

Blinebry and Drinkard production are currently being commingled in the well bore of the H. T. Mattern (NCT-B) No. 16 (Order No. R-5273). There is no evidence of incompatibility.

(6) Value of Commingled Fluids:

*Blinebry Oil .Drinkard Oil	BOPD 15 16	API Gravity 36.4 38.3	<u>\$/Bb1</u> \$ 12.29 11.28	Revenue/Day \$ 184.35 180.48
Total	31			\$ 364.83
Commingled	31	37.4	\$ 11.77	\$ 364.87
			Difference	(\$ / 0.04)

*Projected Blinebry production from decline curve and last fluid test 2-18-76.

(7) All offset operators have been notified by copy of the attached letters: Adobe Oil Company, Hanson Oil Company, J. Hiram Moore and Amerada Hess Oil Company.

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 temporature of 60° F. Specific gravity base will be 0.60. Report casing pressure in lieu of tubing pressure far any well producing through casing. Mail original and one copy of this report to the district office of the New Maxico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.	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 located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order the 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° will be 0.60.		H. T. Mattern (NCT-B)	L E ASE Z AKE	P. 0. Box 670, Hobbs,	Gulf Oil Corporation		
	ing press	e greate shall b s encou Commisi F measu		18	NO. NO.	NM		
	the di	r than t c produ ruzed t slon. ured at		0	с.	88240		
	any we strict of	he amou iced at o toke a press	.'	30	s roc	0	1006	
	ll produc [[le= of	unt of oi a rate i advantag ure base		13	LOCATION			₹ 21.
	ing thro the New	l produc not exce ze of thi ze of 15.0		37	70		Blinebry	··· • ••
	ugh casing. Mexico Oli Con	ed on the officia eding the top ur = 25 preent tol = 25 pela and a te	Last GOR Blinebry	7/8/75	DATE OF TEST		τγ	GAS-OIL RATIO TESTS
	servation Comm	l test. It allowable for erance in order mperature of 60	test pri	P 2"w/o	STATUS OHOX N M M	TYPE OF TEST - (X)		TIO TESTS
	lesion ir	the pool that well F. Spe	bis to	ы С С	TBG. PRESS	 గ్ర		
		• the pool in which well is that well can be assigned • F. Specific gravity base	deepeni st for	43	0 ALLOW- ABLE	Scheduled	County	
	117		ng well downhole	24	HEST NOURS		nty	
Wel	2	I he is tru ledge	ole c	H H	שאירה טפרגי טפרגי	Con	Lea	
Well Tester	AN I	I hereby certify is true and comp ledge and belief.		34•7	GRAV	Completion [
	Char	ertify that omplete t lief.	Slina ing a	4 ₃	OIL BOLS			C-116 Rovind 1-1-55
(Signature)	and	t the above o the best	and temporarily abandoning commingling application.	270.	CAS M.C.F.	Spec		1-65
		I hereby certify that the above information is true and complete to the best of my know- ledge and belief.	oning • g	6279	GAS - 01L 24710 CU.FT/881	Special X		

NEW MEXICO OIL CONSERVATION COMMISSION

*

	Rute	locat Incre		н (- э			>:0; e 3 3		Operator
	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 Oil Conservation Commission in accordance with Rule j01 and appropriate pool rules.	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 slicwables when suthorized by the Commission. 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 will be 0.60.		Mattern (NCT-B)		LEASE NAME	P. O. Box 670, Hobbs,	Gulf Oil Corporation	
	of tubing pres	owable great well shall ator is enco y the Commi in MCF mean			vo.	WELL	NM		
	o the d	er then be prod uruzed ssion. sured at		0	с		88240		
	r any wo latrict o	the amo to take to pres:		30	s	гос		12001	
	il produ líice of	unt of o a rate advanta sure bas		۲ ۲	-1	LOCATION			-
	cing throi the New	il produce not exce ze of thi e of 15.0	٠ بې تو	37	<u>م</u>	-		Drinkard	
	uzh casing. Mexico Oil Con	ed on the officlu eding the top un a 25 percent tol 25 pala and a te	Special test	9/23/76	TEST	DATEOF		lard	GAS-OIL RATIO TESTS
	servation (l test. It allowabi erance in c	ror down.	₽ 2"w/o	SIN	CHOKE	YPE O	÷	TIO TES
	Commission in	ie for the pool rder that well of 60° F. Spei	bole	/o 45		XM TBG.			TS
		or the pool in which well is ir that well can be assigned 60° F. Specific gravity base	commingling application.	- 65	ABLE	סאורץ	Scheduled	Cot	
	w ith	6 7 F	ng g aj	24	TEST	-ENCTH		County	
Well	I he is true ledge	plica	31	WATER Bals.	·	Сэлу	Lea		
Well Tester	The second	I hereby certify is true and compl ledge and belief.	Ĺ. Op •	3 ⁸ •3	ORAV.	PROD. D	Completion		
1	refin	rtify tha omplete t ief.		Б	3915 011	DURING			C-116 Prvtand 1-1-85
(Sifnature)	her	t the abov to the best		44	M.C.F.	TEST	Spec		1-65
		I hereby certify that the above information is true and complete to the best of my know- ledge and belief.		2,750	RATIO	3×3 - 010	Special X		

NEW MEXICO OIL CONSERVATION COMMISSION





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

