

Gulf Oil Exploration and Production Company

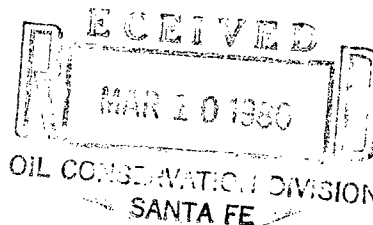
R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

March 7, 1980

P. O. Box 670
Hobbs, NM 88240

DHC -
Due - 3/31/80

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



RE: H. T. Mattern (NCT-D) Nos. 14 and 17
Unit Card F, Section 7-T22S-R37E
Lea County, New Mexico

Dear Sir:

Your administrative approval is requested for an exception to Rule No. 303-C-2 to permit down-hole commingling of marginal Tubb and Drinkard production in these subject wells. The Tubb and Drinkard production on this lease is currently down-hole commingled in the well bore of wells No. 11, 12 and 16 under Administrative Orders DHC-275, DNC-284 and DHC-283, respectively.

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 H. T. Mattern (NCT-D) No. 14 well was drilled and completed in the Drinkard in 1975 and recompleted in the Tubb in 1979, temporarily abandoning the Drinkard. The H. T. Mattern (NCT-D) No. 17 well was drilled and completed in Drinkard in 1975 and recompleted in the Tubb in 1979, temporarily abandoning the Drinkard. Attached are the completion histories, decline curves and latest well tests for both wells.

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,

R. C. Anderson
R. C. ANDERSON

KML/jr

Attachments

Tubb Oil & Gas Pool
Drinkard Pool



- (1) Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, New Mexico 88240
- (2) Lease: H. T. Mattern (NCT-D) No. 14, Section 7-T22S-R37E, Unit C, Lea County, New Mexico
- (3) Well History, Production History, Decline Curve and Latest Tests:
The H. T. Mattern (NCT-D) No. 14 was drilled and completed as a Drinkard Oil Well in 1975 by perforating, acidizing and fracturing the interval 6488'-6644'. The subject well was then recompleted as a Tubb Oil well by perforating, acidizing and fracturing the interval 6205'-6310' and by temporarily abandoning the Drinkard.

Decline curves and production history for both zones, along with latest C-116, are attached.
- (4) Bottom-Hole Pressure: Both zones require artificial lift in order to be produced. Drinkard BHP 475 psi, Tubb BHP 650 psi. (Estimated from offset production).
- (5) Fluid Characteristics:
Tubb and Drinkard production are currently down-hole commingled in the H. T. Mattern Well Nos. 11, 12 and 16. There is no evidence of fluid incompatibility.
- (6) Value of Commingled Fluids:
Tubb and Drinkard production is currently being commingled down-hole (under the above DHC Order) and the price will thus not be affected.
- (7) All offset operators have been notified by a copy of this Application:

Continental Oil Company, P.O. Box 460, Hobbs, NM 88240
 Getty Oil Company, P.O. Box 249, Hobbs, NM 88240
 Larry L. Yarborough, P.O. Box 1001, Eunice, NM 88231
 Sohio Petroleum Company, P.O. Box 3000, Midland, TX 79702
 Petro-Lewis Corporation, P.O. Box 509, Levelland, TX 79336
 Atlantic Richfield Company, P.O. Box 1610, Midland, TX 79701
 Texas Pacific Oil Company, Inc., P.O. Box 4067, Midland, TX 79701
 El Paso Natural Gas Company, 600 Building of the Southwest, Midland, TX 79701
 Amerada Hess Corporation, P. O. Box 840, Seminole, TX 79360
 Shell Oil Company, P.O. Box 1509, Midland, TX 79702

Bottom pf 6644', max prod = 40 BOPD

<i>Tubb - 980</i>	<i>14</i>	<i>88 mcf</i>	<i>40</i>
<i>Drinkard - 580</i>	<i>36</i>	<i>132</i>	<i>60</i>
	<i>14</i>	<i>220</i>	

Operator		Pool		County											
Gulf Oil Corporation		Tubb		Lea											
Address		P. O. Box 670, Hobbs, NM 88240		TYPE OF TEST - (X)											
				Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO CU. FT./BBL.				
		U	S	T	R				WATER OIL BBL.	GAS OIL BBL.					
H. T. Mattern (NCT-D)	14	C	7	22	37	2-13-80	P 2" W.O.	40	26	24	7	35.6	9	88.0	9778
Special test for downhole commingling application.															

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 certified 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.

A. C. Graham
(Signature)
Well Tester

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-113
Revised 11-65

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 H. T. Mattern (NCT-D)	WELL NO. 14	LOCATION U S T R C 7 22 37		DATE OF TEST 1-11-79	CHOKE SIZE P 2" W.O.
				TEST PRESS. 30	DAILY ALLOW-ABLE 15
				LENGTH OF TEST 24	PROD. DURING TEST WATER OIL GAS BBL. OIL BBL. M.C.F.
					5 37.2 5 132.0
					26400

Last GOR test prior to temporarily abandoning Drinkard zone and recompleting in the Tubb. This test for downhole commingling application.

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.

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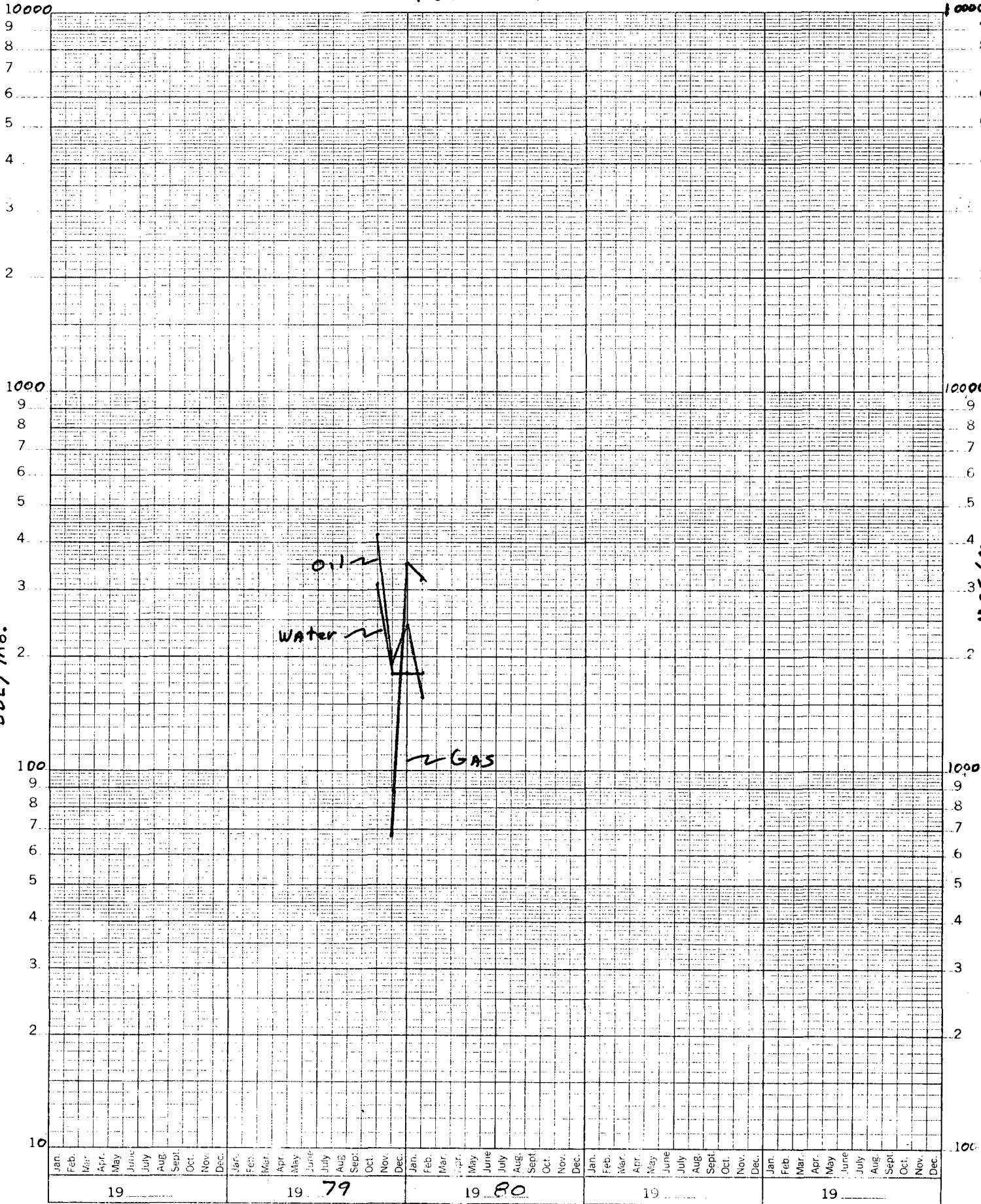
A. E. Shabman
(Signature)
Well Tester

Tubb Oil

46 6690

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

BBL/mo.



Oil ———
Water ———
Gas ———

H. T. Mattern NCT-D # 14

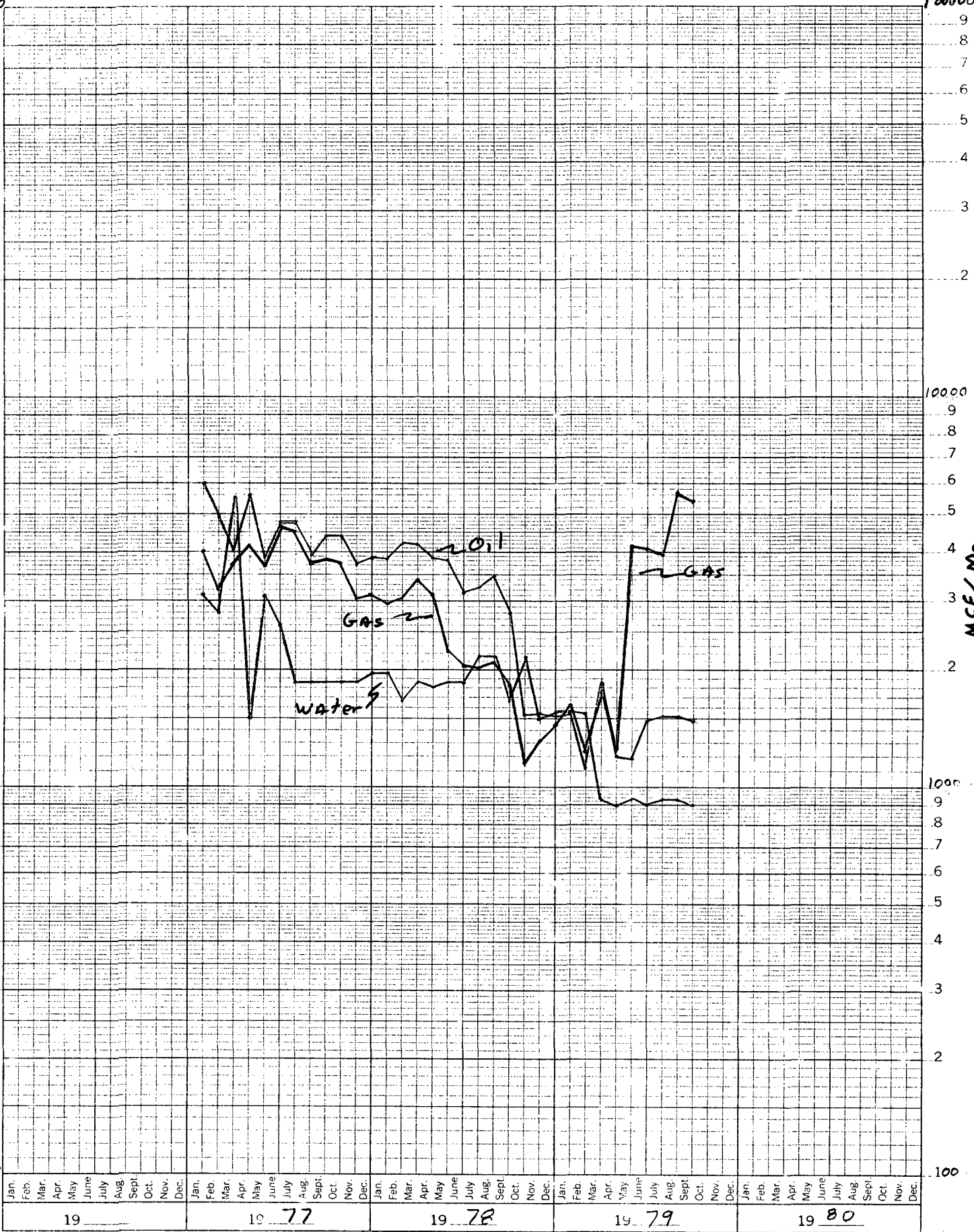
Drinkard Oil

46 6690

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

BBL/mo.

MCF/Mo



Oil —
Water —
Gas —

LEASE Mattern NCT-D

LEASE _____

POOL TubbPOOL DrinkardWELL NO: # 14WELL NO: #14

	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 77					19 77				
Jan.					Jan.	606	4021	310	
Feb.					Feb.	494	3211	280	
Mar.					Mar.	407	3751	558	
Apr.					Apr.	561	4175	150	
May					May	389	3704	310	
June					June	478	4676	260	
July					July	478	4508	186	
Aug.					Aug.	396	3738	186	
Sep.					Sep.	438	3821	186	
Oct.					Oct.	442	3752	186	
Nov.					Nov.	376	3041	186	
Dec.					Dec.	385	3102	197	
Year					Year	5450	45500	2995	
Cum.					Cum.	23796			
	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 78					19 78				
Jan.					Jan.	384	2996	197	
Feb.					Feb.	420	3040	168	
Mar.					Mar.	417	3403	186	
Apr.					Apr.	384	3128	180	
May					May	382	2235	186	
June					June	315	2054	186	
July					July	326	2011	217	
Aug.					Aug.	347	2098	217	
Sep.					Sep.	279	1821	168	
Oct.					Oct.	153	1149	217	
Nov.					Nov.	155	1315	150	
Dec.					Dec.	153	1452	155	
Year					Year	3715	26702	2227	
Cum					Cum	27511			
	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 79					19 79				
Jan.					Jan.	155	1619	155	
Feb.					Feb.	112	1225	155	
Mar.					Mar.	186	1767	93	
Apr.					Apr.	120	1229	90	
May					May	119	4152	93	
June					June	148	4082	90	
July					July	152	3965	93	
Aug.					Aug.	152	5744	93	
Sep.					Sep.	149	5404	90	
Oct.	420	—	310		Oct.				
Nov.	192	683	180		Nov.				
Dec.	241	3534	180		Dec.				
Year					Year				
Cum					Cum				
1980									
JAN	157	3232	180						

OIL CONSERVATION DIVISION
DISTRICT I

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

DATE March 17, 1980

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

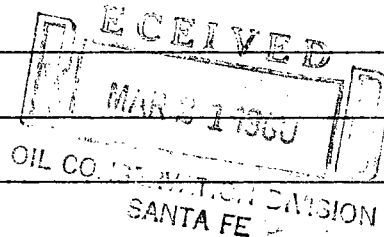
Gentlemen:

I have examined the application for the:

Gulf Oil Corp. H. T. Mattern (NCT-D) No. 14-C & #17-F 7-22-37
Operator _____ Lease and Well No. _____ Unit, S - T - R

and my recommendations are as follows:

O.K.---J.S.



Yours very truly,

A handwritten signature in cursive script, appearing to read "J. S. Mattern", written over a horizontal line.

/mc