

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

March 7, 1980

P. O. Box 670
Hobbs, NM 88240

DHC-312
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.

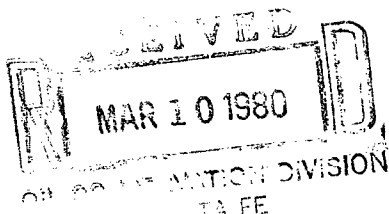
Also attached are other pertinent data regarding this Application as outlined in Rule 303-C-2.

Yours very truly,

R. C. Anderson
R. C. ANDERSON

KML/jr

Attachments



Tubb Oil & Gas Pool 2000
Drinkard Pool 6000



A DIVISION OF GULF OIL CORPORATION

- (1) Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, New Mexico 88240
- (2) Lease: H. T. Mattern (NCT-D) No. 17, Section 7-T22S-R37E, Unit F, Lea County, New Mexico
- (3) Well History, Production History, Decline Curve and Latest Tests:
The H. T. Mattern (NCT-D) No. 17 was drilled and completed as a Drinkard Oil well in 1975 by perforating, acidizing and fracturing the interval 6488'-6654'. The subject well was then recompleted as a Tubb Oil well by perforating, acidizing and fracturing the interval 6194'-6296' 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 of 6654' max prod = 40 BOPD

Tubb	:	480	36	57mcf	55
Drinkard	:	7	64	47	45
		11		104	

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	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO			
			U	S	T	R				WATER BEGS.	GRAV. OIL BEGS.	GAS M.C.F.	CU. FT/BEGL		
H. T. Matlern (NCT-D)	17	C	7	22	37	2-20-80	P 2" W.O.	40	13	24	10	37.44	4	57.0	14250
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 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.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Well checked 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. E. Graham
(Signature)
Well Tester

Operator		Pool		County											
Gulf Oil Corporation		Drinkard		Lea											
Address				Type of Test - (X)											
P. O. Box 670, Hobbs, NM 88240				Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TEST PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.	
		U	S	T	R						WATER BBL.	GRAV. OIL BBL.	GAS M.C.F.		
H. T. Matern (NCT-D)	17	F	7	22	37	1-13-79	P 2" W.O.	30	15	24	3	37.2	7	47.0	6714
<p>Last GOR test prior to temporarily abandoning Drinkard zone and recompleting in the tubb. This test for downhole commingling application.</p>															

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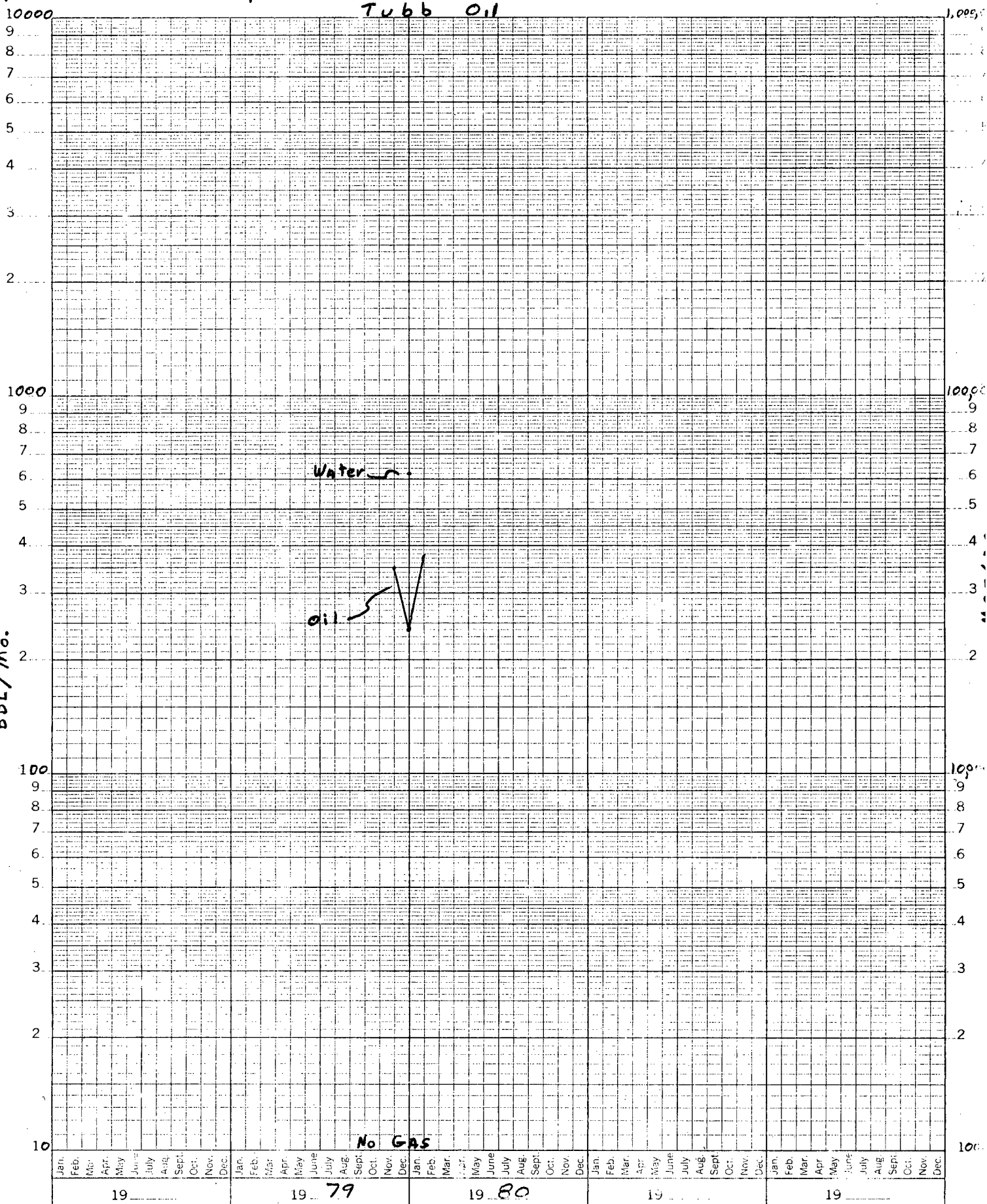
A. E. Graham
(Signed)
Well Tester

H.T. Mattern NCT-D #17 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 ———

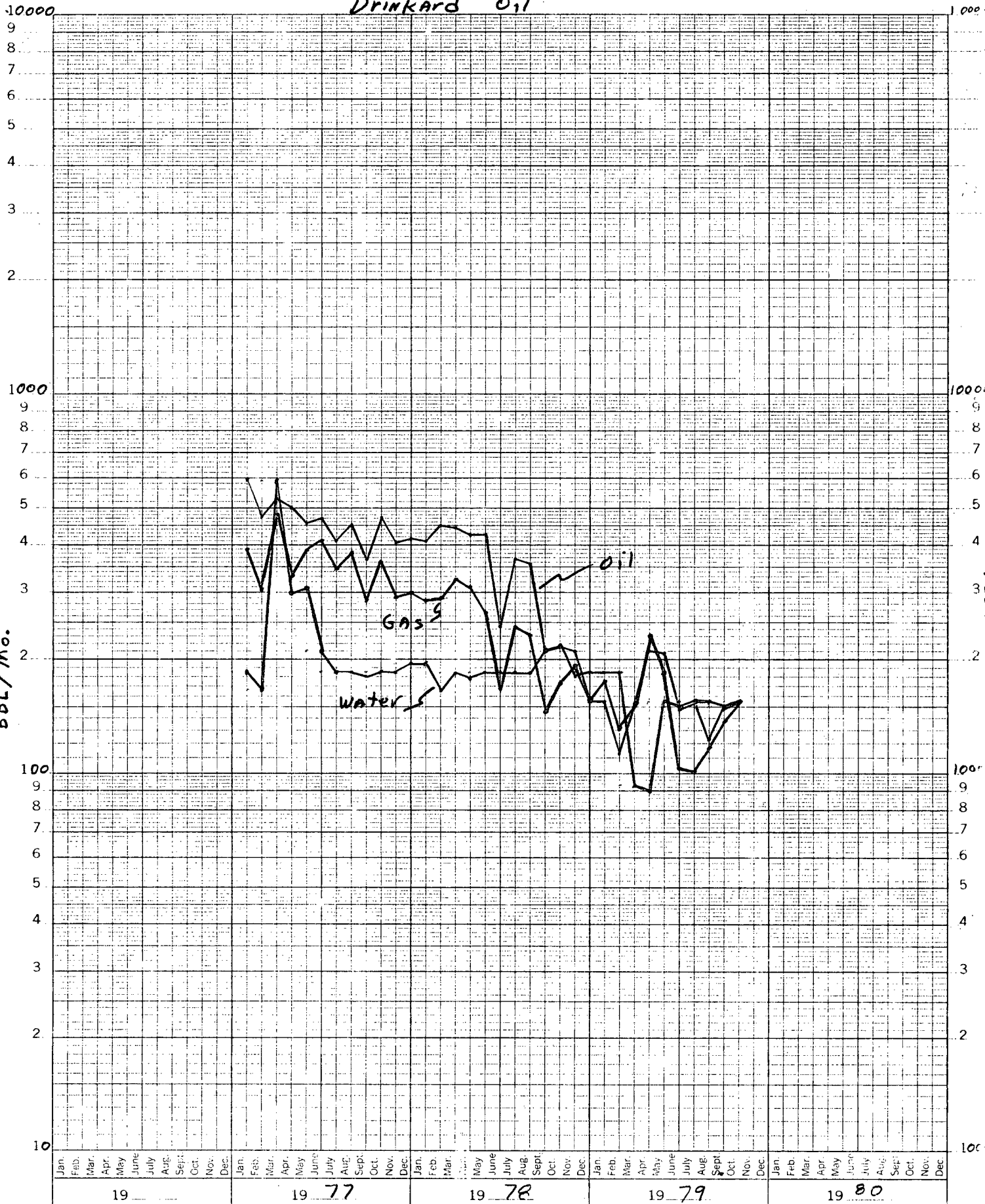
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KEUFFEL & ESSER CO. MADE IN U.S.A.

BBL/mo.



Oil —
Water —
Gas —

LEASE Mattern NFD

LEASE _____

POOL TubbPOOL DrinkardWELL NO: #17WELL NO: #17

	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 77					19 77				
Jan.					Jan.	599	3918	186	
Feb.					Feb.	477	3055	168	
Mar.					Mar.	531	4811	509	
Apr.					Apr.	503	3351	300	
May					May	457	3891	310	
June					June	469	4108	210	
July					July	412	3480	186	
Aug.					Aug.	450	3807	186	
Sep.					Sep.	367	2867	180	
Oct.					Oct.	474	3604	186	
Nov.					Nov.	405	2938	186	
Dec.					Dec.	415	2999	196	
Year					Year	5559	42829	2883	
Cum.					Cum.	20684			
	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 78					19 78				
Jan.					Jan.	412	2883	196	
Feb.					Feb.	449	2915	168	
Mar.					Mar.	445	3257	186	
Apr.					Apr.	427	3120	180	
May					May	424	2666	186	
June					June	242	1695	186	
July					July	367	2432	186	
Aug.					Aug.	357	2320	186	
Sep.					Sep.	209	1466	210	
Oct.					Oct.	215	1736	217	
Nov.					Nov.	210	1914	180	
Dec.					Dec.	155	1580	186	
Year					Year	3912	27984	2267	
Cum.					Cum.	24596			
	OIL	GAS	WATER	DAYS		OIL	GAS	WATER	DAYS
19 79					19 79				
Jan.					Jan.	156	1751	186	
Feb.					Feb.	112	1316	186	
Mar.					Mar.	150	1531	93	
Apr.					Apr.	210	2310	90	
May					May	208	1846	155	
June					June	748	1038	150	
July					July	153	1015	155	
Aug.					Aug.	122	1172	155	
Sep.					Sep.	149	1374	150	
Oct.					Oct.	154	2059	155	
Nov.	349	—	—		Nov.				
Dec.	240	—	620		Dec.				
Year					Year				
Cum.					Cum.				
1980									
Jan.	373	3870	877						