

Gulf Oil Exploration and Production Company

June 21, 1979

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670
Hobbs, NM 88240

Re: H. T. Mattern (NCT-D) Wells No.
12 and 16, Section 6-22S-37E,
Lea County, New Mexico

DHC - 284
Due 7/12/79

Mr. Joe D. Ramey
State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Dear Sir:

We request your administrative approval for an exception to Rule 303-A to permit downhole commingling of production from the Tubb and Drinkard Pools in the subject wells. Present production from these two pools on the subject lease is being commingled in surface storage facilities under Commingling Order PLC-52 dated September 26, 1978. There has been no evidence of fluid incompatibility and we do not expect any reservoir damage due to downhole commingling in the subject wells. Ownership of the Tubb and Drinkard Pools on the subject lease is common, therefore, correlative rights will not be violated.

At the present time, the Drinkard zone is temporarily abandoned and the Tubb zone is being pumped in the subject wells. If this application is approved, the existing pumping equipment will be used to produce both of the commingled zones. We propose to run tubing through the Drinkard zone. Also, upon approval of this application, we will consult with the Supervisor in the Division's Hobbs District Office to determine a suitable allocation formula.

Additional information concerning this application as required by Rule 303-C is attached for your consideration. If you have any questions or comments concerning these matters, please contact this office.

Yours very truly,

RECEIVED
JUN 22 1979
OIL CONSERVATION DIVISION
SANTA FE

R. C. Anderson
R. C. ANDERSON

Attachments
MDW/dch

cc: Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Tubb	10 BO 26%	46 mcf	22%
DH	2880 74%	163 mcf	78%
	38	209	

All Offset Operators
Address List Attached

Bottom of 6657' max = 40 BOPD



OFFSET OPERATORS

H. T. MATTERN (NCT-D) WELLS NO. 12 AND 16

Rowan Companies, Inc.
1900 Post Oak Tower Building
5051 Westheimer
Houston, TX 77027

Amerada Hess Corporation
P. O. Drawer 817
Seminole, TX 79360

Continental Oil Company
P. O. Box 460
Hobbs, NM 88240

Texas Pacific Oil Company, Inc.
P. O. Box 4067
Midland, TX 79701

Getty Oil Company
P. O. Box 249
Hobbs, NM 88240

Sohio Petroleum Company
P. O. Box 3000
Midland, TX 79701

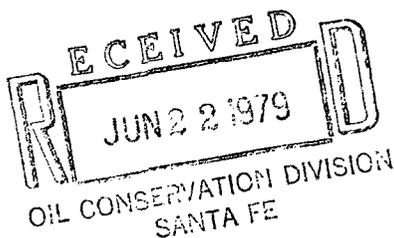
Yarborough Oil Company
P. O. Box 1001
Eunice, NM 88231

Shell Oil Company
P. O. Box 1509
Midland, TX 79701

Petro Lewis
P. O. Box 509
Levelland, TX 79336

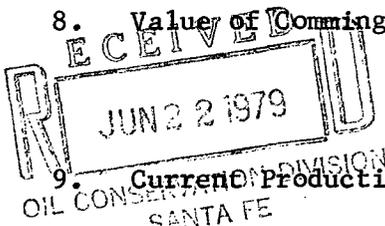
El Paso Natural Gas Company
600 Building of the Southwest
Midland, TX 79701

Atlantic Richfield Company
P. O. Box 1610
Midland, TX 79701



H. T. MATTERN (NCT-D) NO. 12

1. Operator: Gulf Oil Corporation, P.O. Box 670, Hobbs, NM 88240
2. Lease, Well and Location: H. T. Mattern (NCT-D) No. 12, Unit K,
2130'FSL & 1860'FWL Section 6-22S-37E,
Lea County, New Mexico
3. Producing Zones: Currently producing the Tubb Pool, which is to be commingled with the temporarily abandoned Drinkard Pool, if approved. Drinkard zone was temporarily abandoned on November 6, 1978.
4. Decline Curve: See attached sheets.
5. Bottom Hole Pressures: Both zones require artificial lift in order to be produced. Drinkard BHP 462 psi; Tubb BHP 672 psi. (Estimated from offset production.)
6. Fluid Characteristics: Tubb and Drinkard are presently being commingled in surface facilities on the H. T. Mattern (NCT-D) Lease. To date, there has been no evidence of fluid incompatibility.
7. Well History: Well was spudded 6-23-75 and drilled to a total depth of 6800'. Five and one-half inch production casing was set at 6800' with top of cement at 2440'. Present plug back depth for the well is 6759'. Initial completion was in the Drinkard zone through perforations at 6548-50', 6566-68', 6585-87', 6617-19', 6639-41', 6655-57'. Casing was perforated in each zone with four (4) 1/2" JHPF. Well was stimulated with 2,000 gallons 15% HCl and fracture treated with 35,000 gallons gelled water containing 1-2# 20-40 SPG. Initial production from the Drinkard zone was 110 BOPD and 140 BWP, pumping. Approximately 15 months after completion, the well was acidized with 3,000 gallons 15% HCl. Prior to abandoning the Drinkard zone a production test showed 6 BOPD, 6 BWP and 44 MCFGPD, pumping. In November 1978, a cast iron bridge plug was set at 6450', temporarily abandoning the Drinkard perforations 6548'-6657'. Tubb production in the subject well was established by perforating the intervals 6229-33', 6256-60', 6295-99', and 6340-44' with two (2) 1/2" JHPF. These perforations were then acidized with 1,200 gallons 15% HCl and fractured with 32,000 gallons of gelled water containing 45,000# 20-40 mesh sand. Initial production test for the Tubb indicated the well pumped 81 BOPD, 81 BWP and 68 MCFGPD.
8. Value of Commingled Fluids: Drinkard and Tubb production is being commingled in surface storage facilities on the subject lease per Administrative Order PLC-52, therefore, down-hole commingling will not affect the price.
9. Current Production: See Attached C-116.
10. All offset operators are being notified by copy of this application.

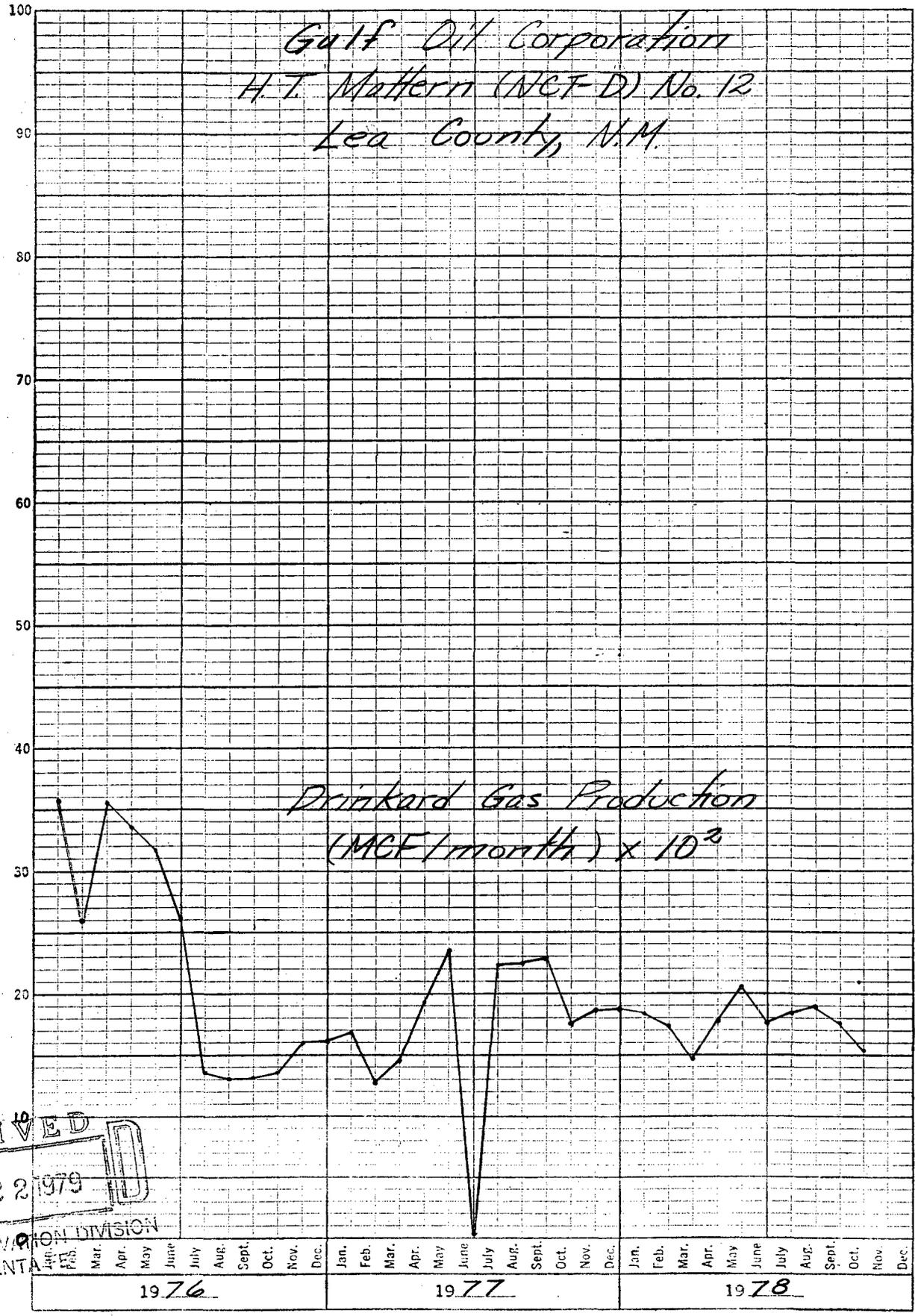


K&E 3 YEARS BY MONTHS 350-180
 X 100 DIVISIONS
 KEUFFEL & ESSER CO. MADE IN U.S.A.

Monthly Gas Production - MCF x 10²

Gulf Oil Corporation
 H. T. Mattern (NEF-D) No. 12
 Lea County, N.M.

Drinkard Gas Production
 (MCF/month) x 10²



RECEIVED
 JUN 22 1979
 OIL CONSERVATION DIVISION
 SANTA FE

Monthly Oil Production - BBL

1000
 800
 600
 400
 200
 0

Gulf Oil Corporation
 H T Mattern (ACT-D) No. 12
 Lea County, N. M.

Drinkard Oil Production
 BBL / Month

1976	1977	1978
Jan. 920	Jan. 540	Jan. 430
Feb. 800	Feb. 540	Feb. 410
Mar. 950	Mar. 460	Mar. 350
Apr. 900	Apr. 460	Apr. 350
May 920	Apr. 470	May 340
June 920	May 520	June 330
July 880	June 470	July 320
Aug. 430	July 460	Aug. 360
Sept. 420	Aug. 450	Sept. 300
Oct. 490	Sept. 450	Oct. 330
Nov. 480	Oct. 370	Nov. 320
Dec. 530	Nov. 400	Dec. 320
	Dec. 430	

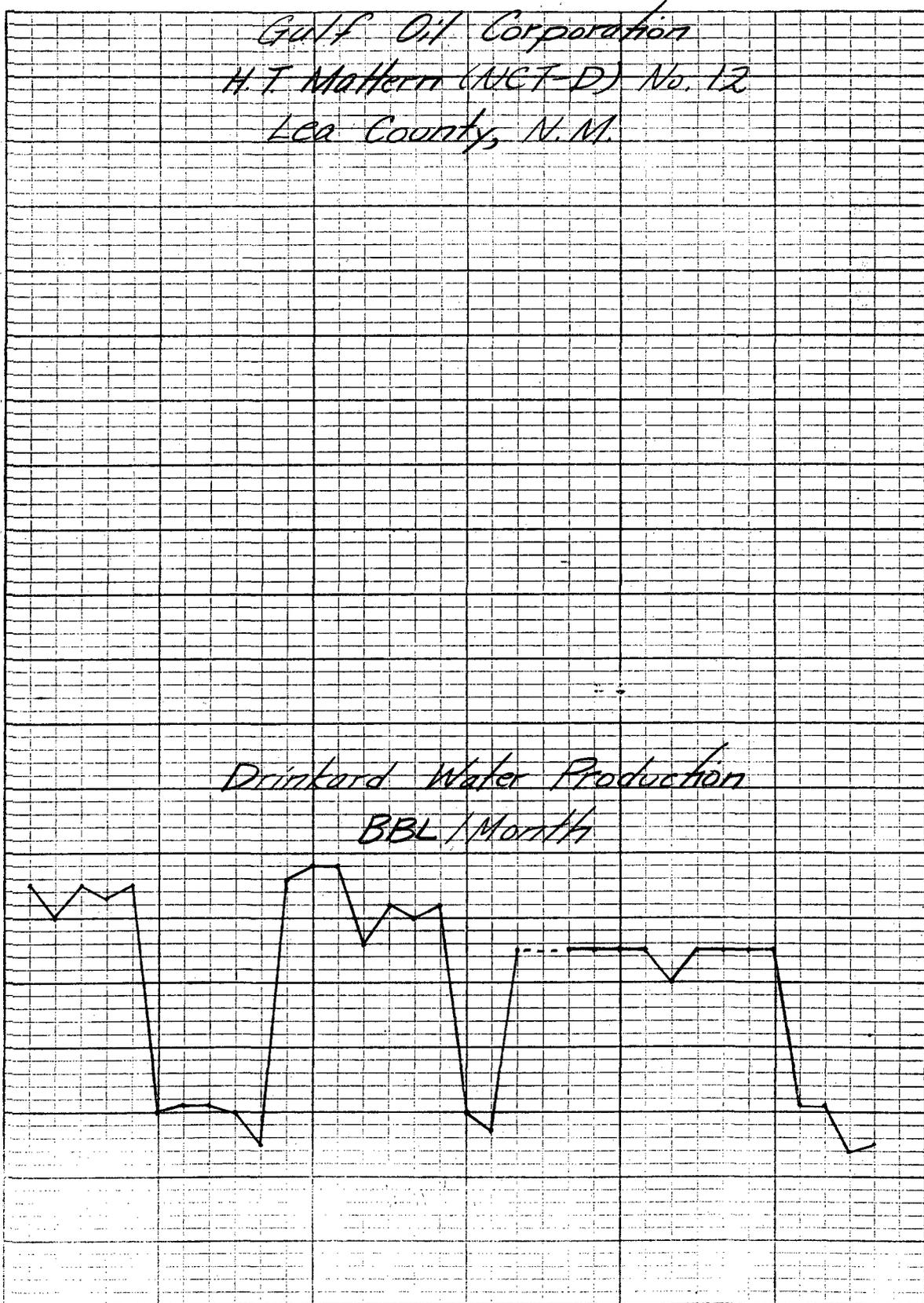
Monthly Water Production - BBL

1000
 800
 600
 400
 200
 0

Gulf Oil Corporation
 H.T. Mattern (NCT-D) No. 12
 Lea County, N.M.

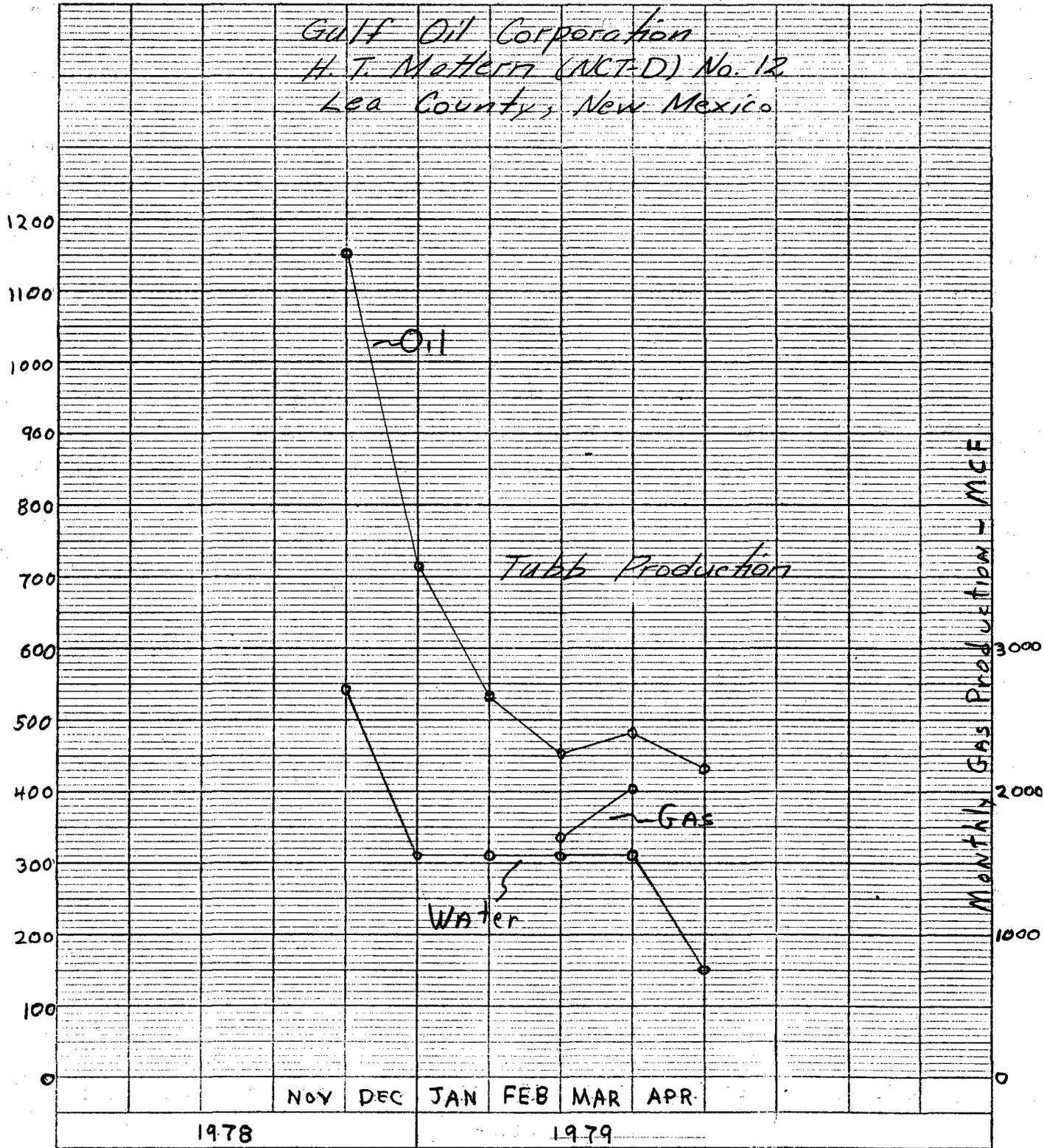
Drinkard Water Production
 BBL/Month

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												
1976												1977												1978											

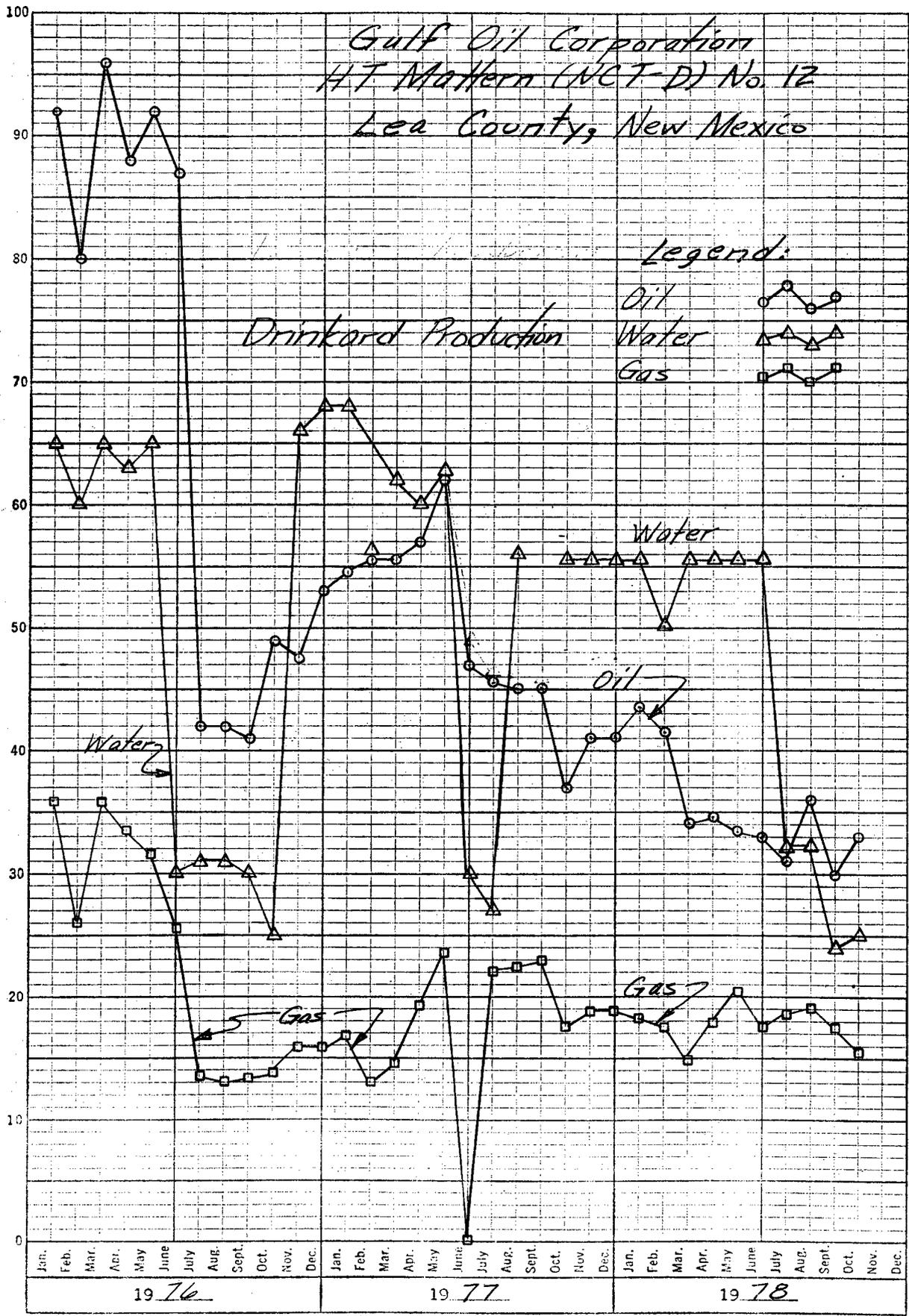


Monthly Oil & Water Production - 661

Gulf Oil Corporation
 H. T. Mattern (ACT-D) No. 12
 Lea County, New Mexico



Monthly Oil & Water Production (BBLs x 10)



Monthly Gas Production - MCF

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-118
Revised 1-1-65

Operator
Gulf Oil Corporation

Pool
Tubb Oil

County
Lea

Address
P. O. Box 670, Hobbs, NM 88240

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	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 BLS.	GRAV. OIL	OIL BLS.	GAS M.C.F.	
H. T. Mattern (NCT-D)	$\frac{12}{16}$	K	6	22	37	5-31-79	E	2 1/2" W.O.	40	16	24	1	32.1	$\frac{10}{1}$	46.0	4,600
		E	7	22	37											

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 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.

D. E. Graham
(Signature)
Well Tester

June 19, 1979

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)		Scheduled <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABL. E	LENGTH OF TEST HOURS	Completion <input type="checkbox"/>			GAS - OIL RATIO CU. FT./BBL		
		U	S	T						R	WATER BBL.S.	PROD. DURING TEST GRAV. OIL		OIL BBL.S.	GAS M.C.F.
H. T. Mattern (NCT-D)	12	K	6	22	37	2-8-78	P 2" WO	40	18	24	15	37.7	28	163.0	5,821
	16	E	7	22	37	1-6-78	P 2" WO	35	20	24	10	37.7	11	51.0	4,636

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 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.

Original Signed by

N. G. Hallmark

Well Tester (Signature)

May 8, 1978 (Date)