

DHC - 189

Due - 3/4/76

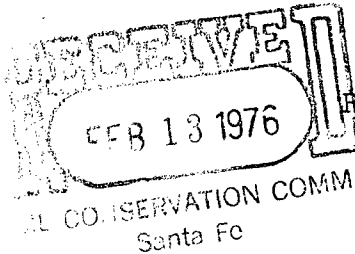
Gulf Energy and Minerals Company-U. S.

PRODUCTION DEPARTMENT
HOBBS AREA

C. D. Borland
AREA PRODUCTION MANAGER

February 9, 1976

P. O. Box 670
Hobbs, New Mexico 88240



Re: Naomi Keenum No. 1,
Unit J, Sec. 14-21S-37E,
Lea County, N. M.

Mr. Joe D. Ramey
N. M. Oil Conservation Commission
P. O. Box 2088
Santa Fe, N. M. 87501

Dear Sir:

Your administrative approval is requested for an exception to Rule 303-A to permit down-hole commingling of marginal production in the subject well. The Drinkard and Blinebry oil production on this lease is presently commingled in storage on the surface under Amended Administrative Order No. PC-115. Surface commingling indicates that the fluids are compatible, 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 the well. Should secondary recovery operations become practical in the future, the two zones could be separated at that time without damaging either reservoir.

The Drinkard zone is presently being produced by rod pump. The Blinebry zone is a weak flowing well. If down-hole commingling is permitted, the existing pumping equipment will be utilized to lift the fluids from the two commingled zones.

Pertinent data regarding this application, as outlined in Rule 303-C, are attached for your consideration.

Yours very truly,

C. D. BORLAND

CRK:ec
Att'd.

cc: N. M. Oil Conservation Commission, Hobbs
C. F. Kalteyer, Midland
Offset Operators: Continental, Mobil, Atlantic Richfield, Getty, Shell, J. R. Cone



Naomi Keenum No. 1

1. Operator: Gulf Oil Corporation
P. O. Box 670
Hobbs, N. M. 88240
2. Lease and Well Number: Naomi Keenum No. 1
1980' FSL & 1980' FEL
Sec. 14-21S-37E
Lea County, New Mexico
3. Pools Dualled: Blinebry Oil and Gas, Drinkard Oil ✓
OCC Order No. MC-1244, November 5, 1962
4. Decline Curves: Attached.

5. Bottom Hole Pressure Data:

	<u>Datum</u>	<u>Pressure at Datum</u>
Blinebry Oil and Gas	-2400'	415 psi
Drinkard Oil	-3050'	500 psi (est.) *

* Drinkard estimate based on most recent available average BHP data within vicinity of this well.

6. Fluid Characteristics: Drinkard and Blinebry production is presently being commingled on this lease (Amended Commingling Order No. PC-115 dated Nov. 25, 1975). There is no evidence of incompatibility.
7. Value of Commingled Fluids:

	<u>BOPD</u>	<u>API Gvty. @ 60° F.</u>	<u>\$/Bbl.</u>	<u>Rev./Day</u>
Blinebry Oil and Gas	8	36.4	\$11.92	\$ 95.36
Drinkard Oil	9	40.6	12.00	<u>108.00</u>
				\$203.36
Commingled	17	38.6	\$11.96	\$203.32
Difference				-\$ 0.04

8. Current Tests: Blinebry Oil and Gas (1-14-76) flowed 8 BOPD, 1 BWP, GOR 3375. Drinkard Oil (1-13-76) pumped 9 BOPD, 2 BWP, Gor 2444.
9. All offset operators have been notified by copy of attached letter: Continental Oil Company, Mobil Oil Corporation, Atlantic Richfield Company, Getty Oil Company, J. R. Cone, Shell Oil Company.

bottom of 6634

Bl oil 8 BOP 47%
Dr " 9 53% gas 27 55%
17 49

Form C-124
Revised 1-1-65

TYPE OF REPORT - (X)	
Initial Completion	
Special	
General Survey	X

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. SEE RULE 302.

1-22-76

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-124
Revised 1-1-65

RESERVOIR PRESSURE REPORT

TYPE OF REPORT - (X)																			
Initial Completion																			
Special																			
General Survey										X									
Operator Gulf Oil Company										Pool Blinebry									
Address P.O. Box 670, Hobbs, New Mexico										Producing Formation Blinebry									
										Oil Gradient									
										Water Gradient									
										Gas Gravity									
										Datum Plane									
										Date 1-22-76									
										County Lea									
										psf/ft.									
										psf/ft.									
										SONIC INSTRUMENT TEST DATA*									
										BOMB TEST DATA									
										SHUT-IN									
										DATE TESTED									
										ELEV. OR GAS (G)									
										LOCATION									
										WELL NO.									
										LEASE									
										Keenum									
										1									
										J 14									
										21									
										37									
										3413									
										1-22-76									
										48									
										5813									
										75°									
										415									
										PROD. TEST									
										LIQUID LEVEL									
										LIQUID GRAD-IENT									
										WT. OF LIQUID COL. PSI									
										WT. OF GAS COL. PSI									
										CSG. PRESS.									
										PRESS. AT DATUM									
										415									

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. SEE RULE 302.

* Well shall be produced at least 24 hours prior to shutting in for sonic test.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Well Tester-Jarrel Services, Inc.

1-22-76

Signature

(Title)

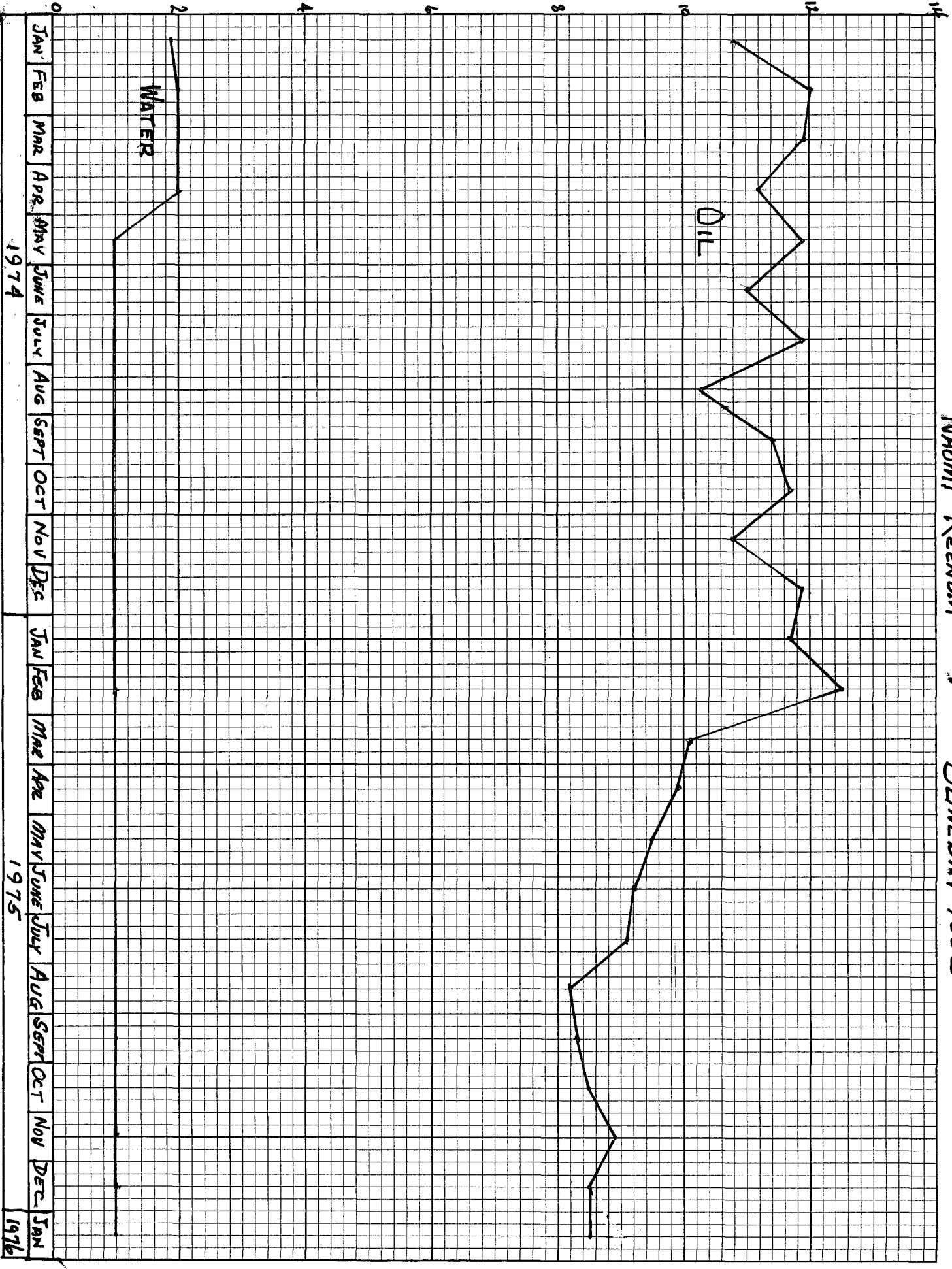
(Date)

GULF OIL CORPORATION

PRODUCTION DECLINE CURVE

NAOMI KEENUM #1 BLUNEBRY POOL

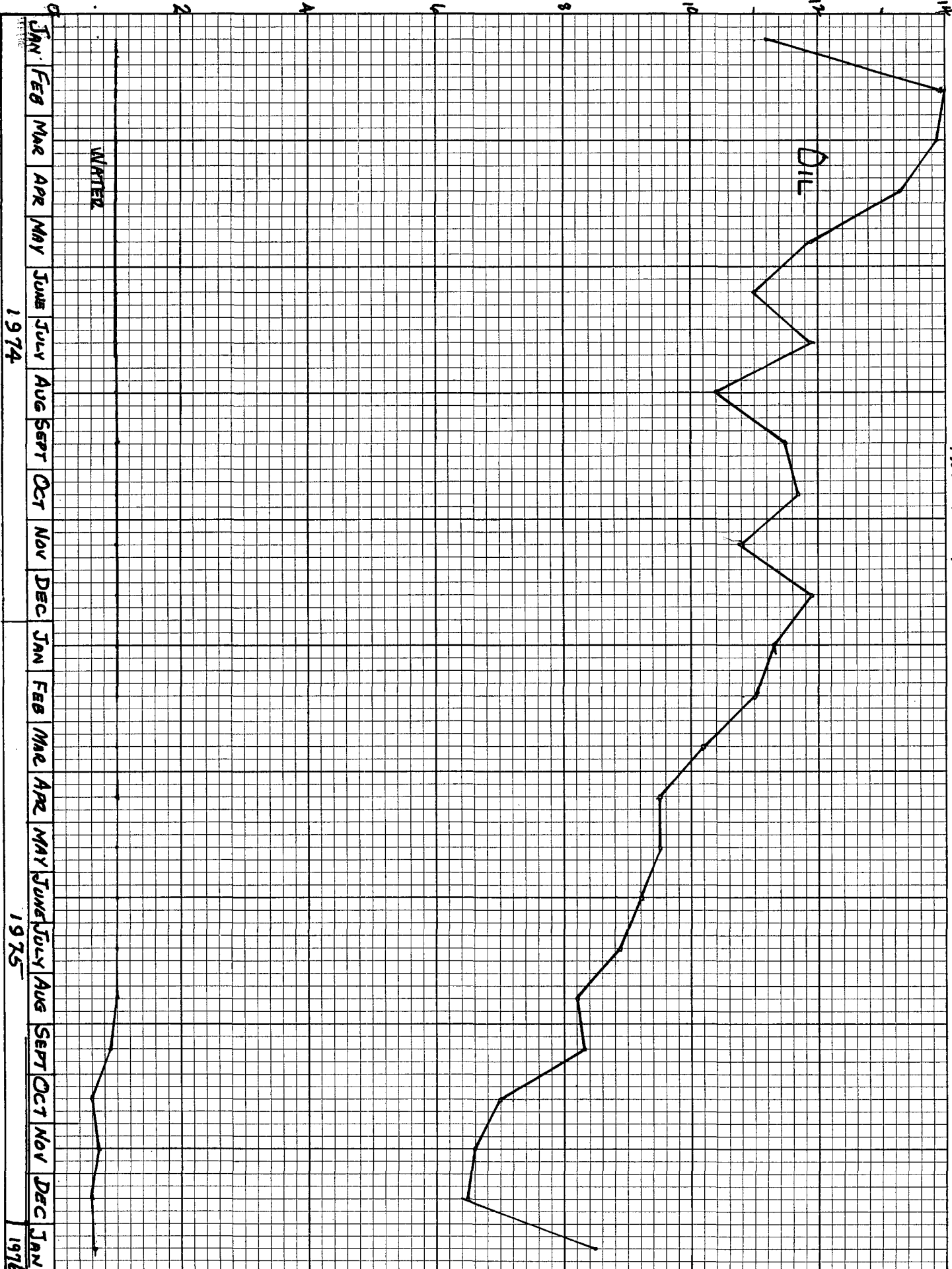
AVERAGE BPD

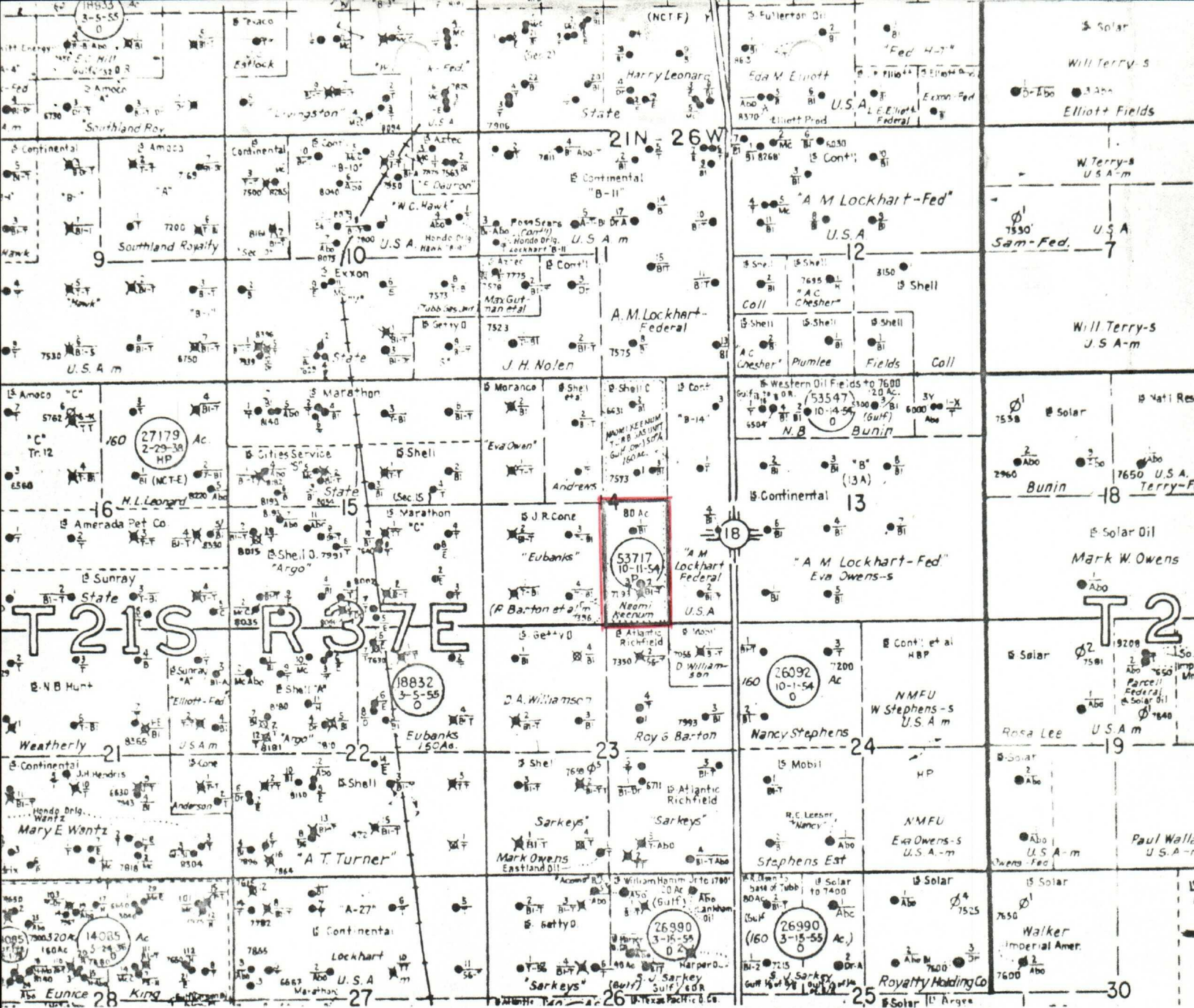


PRODUCTION DECLINE CURVE

NAOMI KEENUM #1
GULF OIL CORPORATION
DRINKARD POOL

AVERAGE BPD





NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Drinkard		County Lea											
Address		TYPE OF TEST - (X)		Completion ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL			
		U	S						T	R	WATER BBL'S		GRAV. OIL	OIL BBL'S	GAS M.C.F.
Naomi Keenum	1	J	L4	21	37	1-14-76	P 2" WO	30	11	24	2	40.6	9	22.0	2444
Nancy Stephens	2	E	24	21	37	1-19-76	P 2" WO	35	14	24	0	39.0	3	6.0	2000
Test To Apply for Down-Hole Comingling															

No well will be assigned an allowable greater than the amount of oil produced on the official test.

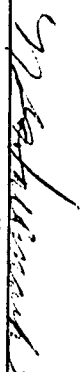
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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.

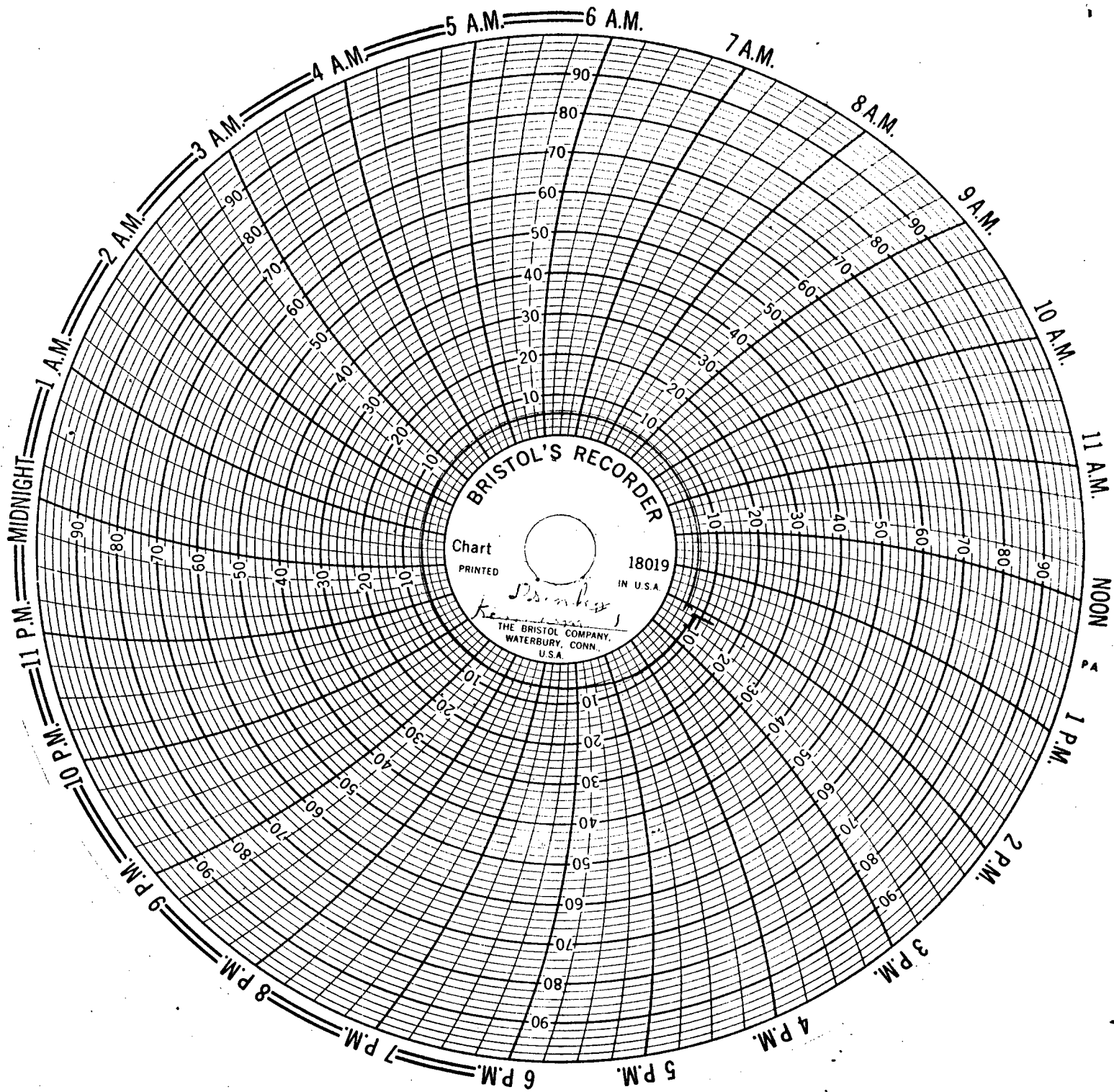
Report casing pressure in lieu of tubing pressure for any well producing through casing.

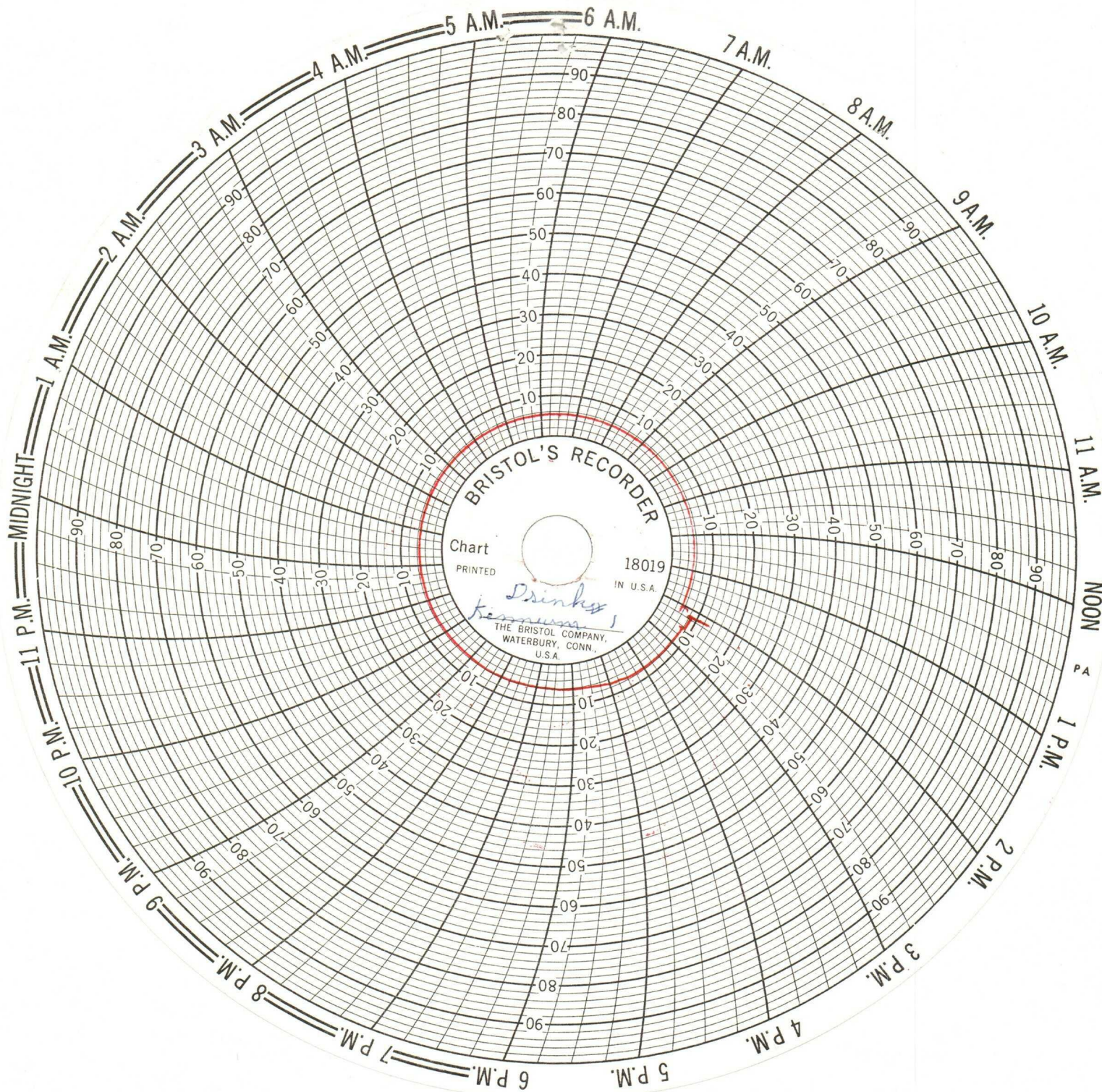
Well original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.


(Signature)
Well Tester

February 10, 1976
(Date)





✓
Pool *Dak*
Lease *N. Keenum*
Well *1*
Date *1-13-76*
Oil *9*
Water *2*

Total Liq. *11*
G.O.R. *2.1111*
G.L.R.

Tub. Pres *30*

C.S.G. Pres

Allo Mo. test

Choke *2" w/o*

Gate Size *1/4*

Avg Oil 24 hr. *6.7*

24 hr. M. CF *22.0*

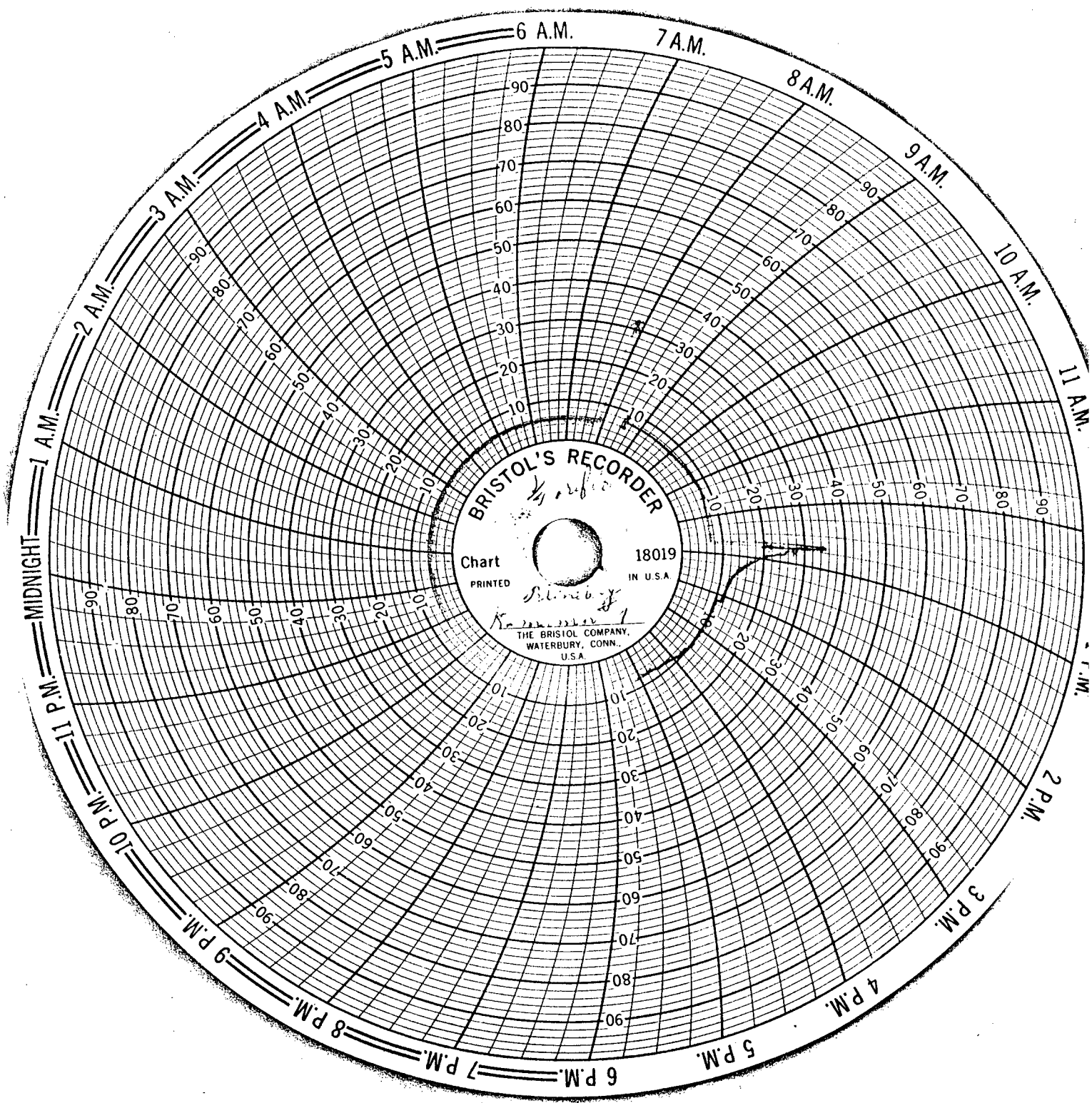
Prev. G.O.R.

Max. G.O.R.

Corr. Guty. *40.6*
9 x 72 SPN

C-116
Revised 1-1-65

I hereby certify that the above information is true and complete to the best of my knowledge and belief.



NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Blinebry Oil and Gas		County Lea											
Address Box 670, Hobbs, N. M. 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
Naomi Keenum	1	J	14	21	37	1-14-76	F 30/64"	80	10	24	1	36.4	8	27.0	3375
Nancy Stephens	2	E	24	21	37	2-5-76	F 29/64"	40	5	24	0	37.2	9	46.0	5111
Test To Apply for Down-Hole Comingling															

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.

Mail 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.

M. K. Stephens

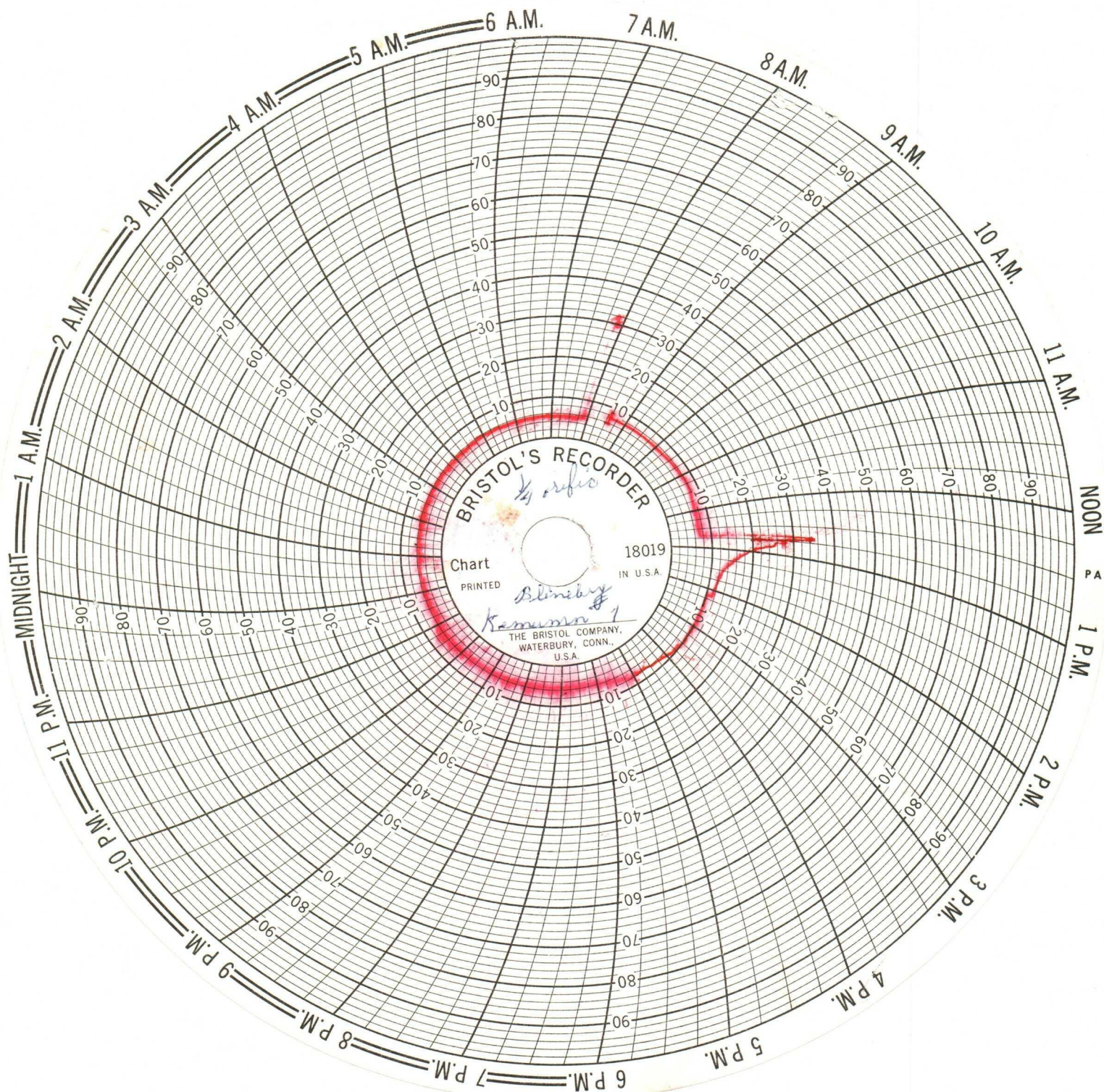
(Signature)

Well Tester

(Title)

February 10, 1976

(Date)



Pool *Blinbury Rd*
Lease *N. Keenum*
Well *1*
Date *1-14-76*
Oil *8*
Water *1*
Total Liq. *9*
G.O.R. *3375*
G.L.R.
Tub. Pres *80*
CSC. Pres *Plur.*
Allo Mo. test
Choke *30/64*
Plate Size *1/4*
Aug Diff 24 hr. *9#*
24 hr. M. CF *27.0*
Prev. G.O.R.
Max. G.O.R.

Corr. Guty *36.4*

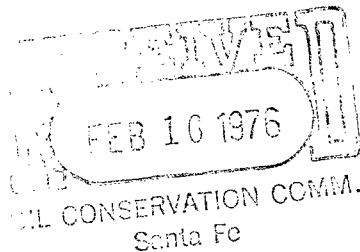
Flow.

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE February 12, 1976

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



Gentlemen:

I have examined the application dated _____
for the Gulf Oil Corp. Naomi Keenum #1-J 14-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

Larry Lorton