

11 0 1

$$\begin{array}{l} \text{BL } 33025 = 46\% \\ \text{Dr } 38152 = 54\% \quad \text{gas} \\ \hline 71177 \end{array}$$

1976

	BL		Dr	G
	O	G	O	
M	204	861	104	5635
A	214	1125	109	2341
M	222	1187	127	2774
F	210	1017	116	2288
J	228	1066	253	4773
	1078	5259	709	17811

$$\begin{array}{l} \text{BL } 1078 = 60\% \\ \text{Dr } 709 = 40\% \quad \text{oil} \\ \hline 1787 \end{array}$$

$$\begin{array}{l} \text{BL } 5259 = 23\% \\ \text{Dr } 17811 = 77\% \quad \text{gas} \\ \hline 23070 \end{array}$$

Gulf #3 Hardy
DHC

CL Hardy #3
BI Dr

J	40	461	300	2094
F	369	201	324	2196
M	118	35	360	3217
A	0	273	199	2163
U	475	4776	199	2884
J	237	6392	189	3391
J	103	3775	190	5277
A	394	8411	173	3835
S	208	5859	131	3635
O	179	893	144	2922
N	180	883	144	2970
D	126	766	204	3568
			2557	38152
2430	33025			

Gulf Energy and Minerals Company - U. S.

PRODUCTION DEPARTMENT
HOBBS AREA

C. D. Borland
AREA PRODUCTION MANAGER

September 7, 1976

RECEIVED
SEP - 8 1976
L. CONSERVATION COMM.
Santa Fe

P. O. Box 670
Hobbs, New Mexico 88240

DHC - 202
Due - 9/28/76

C. L. Hardy No. 3,
Unit "K", Sec. 20-T21S-R37E,
Lea County, New Mexico

Mr. Joe D. Ramey
N.M. Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 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 are presently commingled in surface storage under Orders R-1678, PC-357 and PC-357 Amended. The same two pools are also presently down-hole commingled in the wellbore in other wells (closest well is Harry Leonard "C" No. 17, Order No. R-5114). There is no evidence of fluid incompatibility, and we do not expect any waste or reservoir damage due to down-hole commingling in the wellbore. 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 due to decreased operating expenses and a lower economic limit. Should secondary recovery operations become practical in the future, the two zones could be separated at that time without damaging either reservoir.

Both zones are presently being produced by rod pump; however, the Blinebry zone is presently off production due to a leak in the Blinebry tubing string. 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: NMOCC, Hobbs
C. F. Kalteyer, Midland
Offset Operators: Marathon Oil Co., Getty Oil Co., Petro-Lewis



C. L. Hardy No. 3

1. Operator: Gulf Oil Corporation
P. O. Box 670
Hobbs, NM 88240
2. Lease and Well Number: C. L. Hardy No. 3
1980' FSL & 1980' FWL *unit K*
Section 20-T21S-R37E
Lea County, New Mexico
3. Pools Dualled: Blinebry Oil and Gas, Drinkard ✓
OCC Order No. MC-2162, November 13, 1974
4. Decline Curves: Attached
5. Estimated BHP (based on most recent average BHP data within vicinity of this well):

<u>Pool</u>	<u>Datum</u>	<u>Pressure at Datum</u>
Blinebry	-2400'	605
Drinkard	-3050'	613

6. Fluid Characteristics: Drinkard and Blinebry production are presently being surface-commingled on this lease, Order No. R-1678, Order No. PC-357 and Order No. PC-357 Amended. There has been no evidence of incompatibility.
7. Value of Commingled Fluids: Since production is already surface commingled (see Item No. 6 above), down-hole commingling will not affect price.
8. Current Tests: Drinkard (9-1-76) pumped 4 BOPD, 0 BWP, gas volume TSTM.
Blinebry (7-10-76) pumped 1 BOPD, 1 BWP, GOR 28,000.
NOTE: This well is presently off production with a leak in Blinebry tubing string. We estimate stabilized pumping production from this zone to be approximately 5 BOPD. Economics are not favorable for repairing tubing leak in this dually-completed well.
9. All offset operators have been notified by copy of this letter: Marathon Oil Company, Getty Oil Company, and Petro-Lewis.

Bottom pf: 6615' max allow - 40 BOPD

Prod: Be

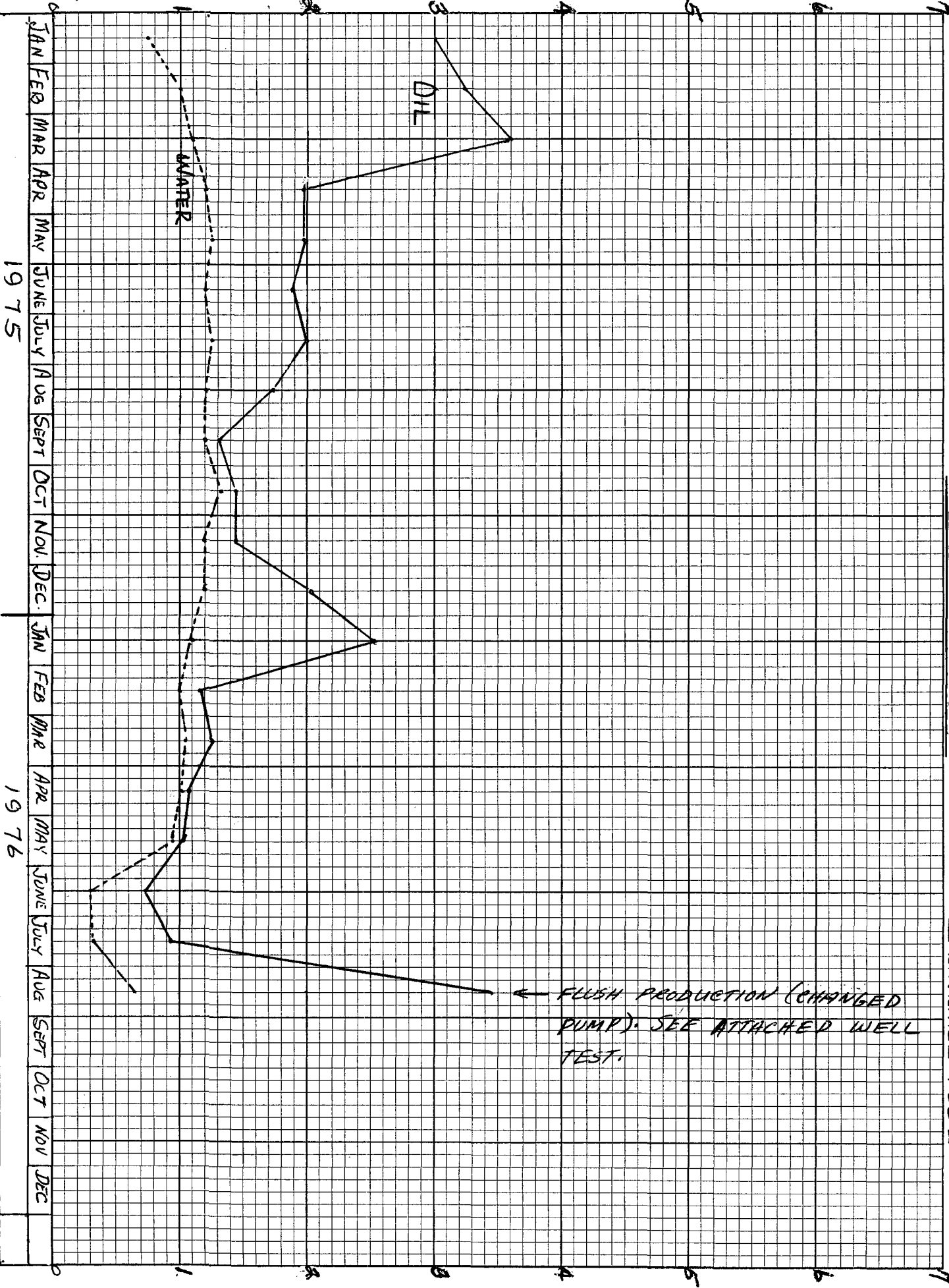
PRODUCTION DECLINE CURVE

CL. HARDY #3

GULF OIL CORP.

DRINKARD POOL

PRODUCTION - Bbls/MONTH X 100



← FLUSH PRODUCTION (CHANGED PUMP). SEE ATTACHED WELL TEST.

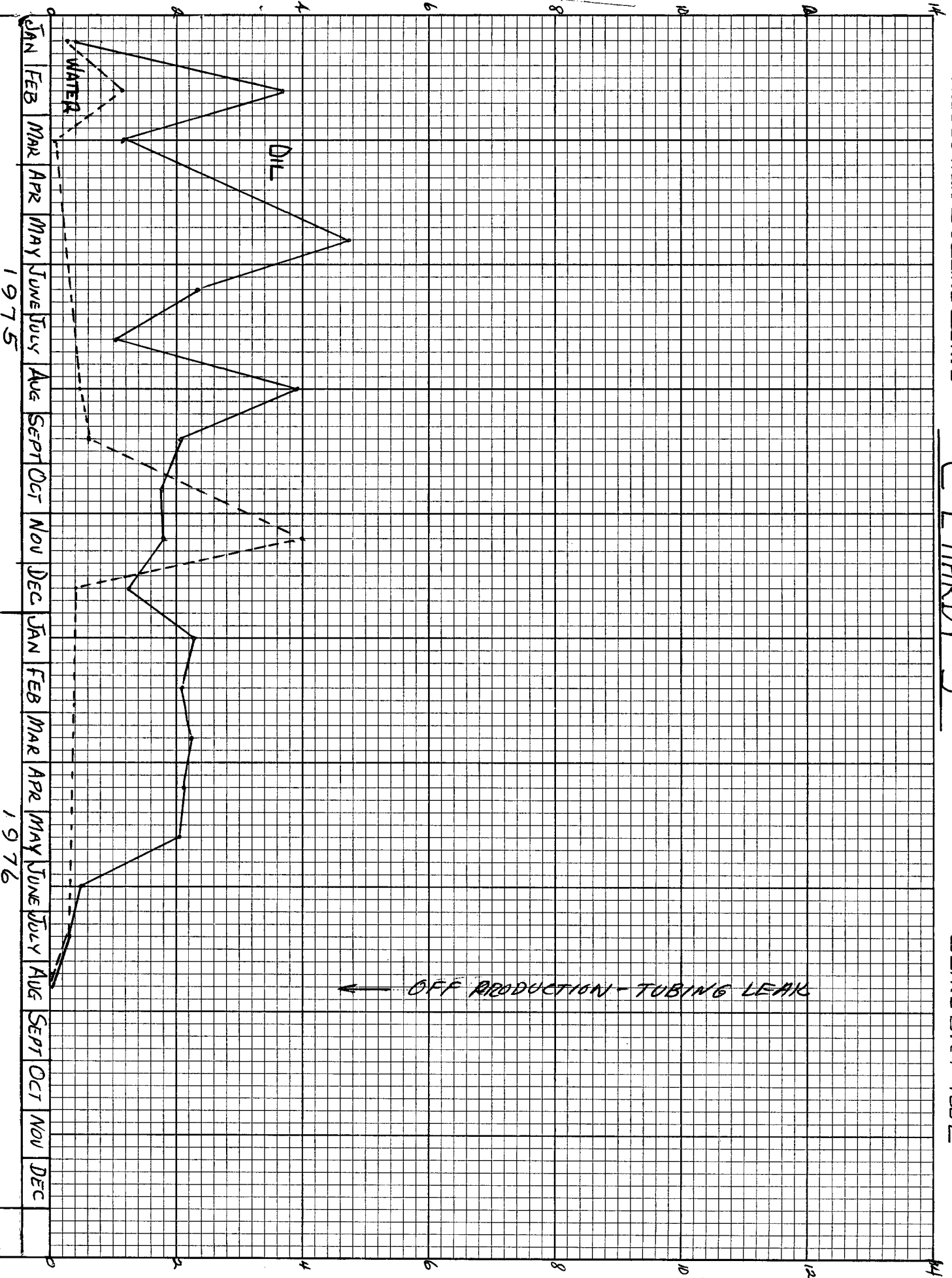
PRODUCTION DECLINE CURVE

C L HARDY #3

GULF OIL CORP.

BLINEBRY POOL

PRODUCTION - Bbl/MONTH X 100

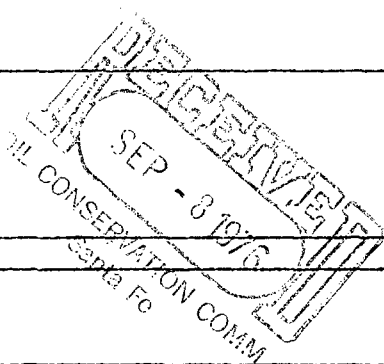


← OFF PRODUCTION - TUBING LEAK

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Drinkard and Blinebry Oil		County Lea	
Address Box 670, Hobbs, N.M.		Type of Test - (X) ☒ TEST - (X)		Schedul'd ☐	
Lease Name C. L. Hardy - Blinebry - Drinkard		Well No. 3	Location U S T R K 20 21 37 K 20 21 37	Date of Test 7-10-76 9-1-76	Choke Size 2" WO 2" WO
				Tbg. Press. 52 19	Daily Allowable 12 4
				Length of Test 24 24	Prod. During Test Water Bbls. Grav. Oil Bbls. Gas M.C.F. 1 35.6 1 28.0 0 37.4 4 TSIM
					Gas - Oil Ratio CU. FT./BBL. 28,000 -
Special test for allocation of production prior to commingling in well bore.					



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 testing 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.

Well Tester

(Signature)

September 3, 1976

