

# Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT  
ROSWELL DISTRICT

T. W. Kidd  
DISTRICT MANAGER  
M. J. Taylor  
DISTRICT PRODUCTION  
MANAGER  
P. E. Wyche  
DISTRICT EXPLORATION  
MANAGER  
H. A. Rankin  
DISTRICT SERVICES MANAGER

DEC 13 1969  
P. O. Drawer 1938  
Roswell, New Mexico 88201

December 12, 1969

Oil Conservation Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

DHC - 29  
Dec 1-2-70

Attention: Mr. A. L. Porter, Jr.

Re: Application for Down Hole Commingling - Mills Federal  
Well No. 1, Unit C - Section 11, T9S, R36E, Lea County,  
New Mexico

Gentlemen:

Gulf Oil Corporation respectfully requests administrative approval under the provisions of Order No. R-3845 to commingle in the well bore production from the Allison Abo and Allison Penn Pools in the subject well. The dual completion and surface commingling of production for the Mills Federal Well No. 1 were approved by Order No. R-1795 dated October 11, 1960. This well qualifies under the provisions of State Wide Rule 303 C for administrative approval for well bore commingling.

In support of this application the following are submitted:

- (1) Lease plats showing the Mills Federal Lease outlined in red and described as the NW/4 Section 11, T9S, R36E, Lea County, New Mexico. Well No. 1 is circled and colored in red.
- (2) Form C-116 showing the results of tests taken within the last 30 days. The combined production for the two zones as shown on the tests are 47 BOPD and 50 BWPD. The two zones are artificially lifted by Kobe pumps and it is difficult to determine the bottom hole pressure; however, we estimate it to be between 300 psig and 400 psig for these zones. The reservoirs are in the later stages of depletion and the pressures are very low.
- (3) Production decline curves are attached showing the monthly production for each zone since January, 1967.
- (4) The production from each Pool is commingled on the surface by Order No. R-1795 dated October 11, 1960 and during this extended period of time, there has been no indication of incompatibility of the fluids. The commingling on the surface resulted in a slight increase in the monetary value of the crude; therefore, commingling in the well bore will not result in a lesser value for the production.



December 12, 1969

- (5) A copy of this Application has been furnished to the United States Geological Survey and all offset operators.

Respectfully submitted,

GULF OIL CORPORATION



M. I. Taylor

Attachments

JHH:mmmr

cc: New Mexico Oil Conservation Commission  
Post Office Box 1980  
Hobbs, New Mexico 88240

United States Geological Survey  
Post Office Box 1857  
Roswell, New Mexico 88201

Mobil Oil Corporation  
Post Office Box 633  
Midland, Texas 79701

Sun Oil Company  
Post Office Box 1861  
Midland, Texas 79701

Trice Production Company  
3609 Sinclair  
Midland, Texas 79701

Atlantic Richfield Company  
Post Office Box 1978  
Roswell, New Mexico 88201

Mr. Gordon M. Cone  
Post Office Box 1148  
Lovington, New Mexico 88260

Cosden Oil & Chemical Company  
Post Office Box 1311  
Big Spring, Texas 79720

Marathon Oil Company  
Post Office Box 552  
Midland, Texas 79701



NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator <b>Gulf Oil Corporation</b>		Pool <b>Allison Abo</b>		County <b>Lea</b>											
Address <b>P.O. Box 93; Andrews, Texas 79714</b>		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
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.
<b>Mills, Federal</b>	<b>1</b>	<b>C</b>	<b>11</b>	<b>9</b>	<b>36</b>	<b>11-20-69 P</b>	<b>2"</b>	<b>--</b>	<b>40</b>	<b>24</b>	<b>35</b>	<b>42.1</b>	<b>35</b>	<b>52.13</b>	<b>1,489</b>

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

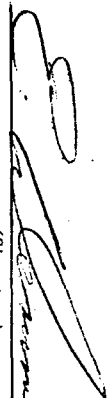
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized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

  
(Signature)  
**Area Engineer**  
(Title)  
**12-8-69**  
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65


Operator <b>Gulf Oil Corporation</b>		Pool <b>Allison Penn</b>		County <b>Lea</b>	
Address <b>P.O. Box 98, Andrews, Texas 79714</b>		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>	
LEASE NAME <b>Wills, Federal</b>	WELL NO. <b>1</b>	LOCATION U S T R			DATE OF TEST <b>11-19-69</b>
					CHOKE SIZE <b>2"</b>
				T.B.G. PRESS. <b>---</b>	DAILY ALLOW-ABLE <b>29</b>
					LENGTH OF TEST HOURS <b>24</b>
					PROD. DURING TEST
					WATER BBL.S. <b>15</b>
					GRAV. OIL BBL.S. <b>44.0</b>
					GAS M.C.F. <b>12</b>
					GAS - OIL RATIO CU.FT./BBL. <b>2,240</b>

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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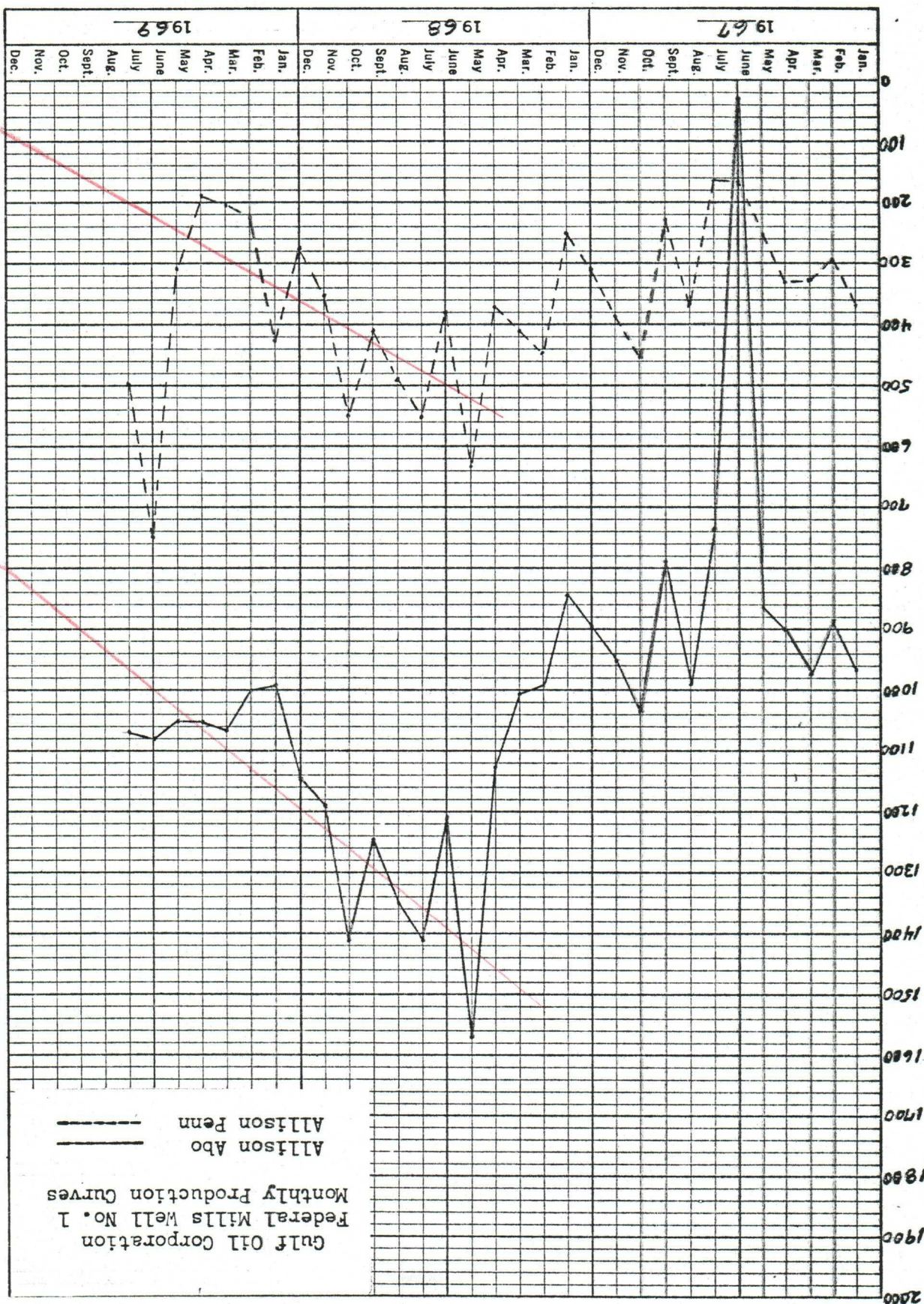
**Area Engineer**  
(Title)

**12-8-69**  
(Date)

(Date)



MONTHLY OIL PROD. - Bbls.



96

800

1670