

Mobil Oil Corporation

P.O. BOX 633
MIDLAND, TEXAS 79701

February 16, 1970

RECEIVED
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Due Mar 16

New Mexico Oil Conservation Commission (2)
P. O. Box 2088
Santa Fe, New Mexico 87501

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

APPLICATION OF MOBIL OIL CORPORATION FOR
EXCEPTION TO NEW MEXICO OIL CONSERVATION
COMMISSION RULE 303(a) AND AUTHORIZING
THE DOWNHOLE COMMINGLING OF THE VACUUM
(UPPER PENN) ZONE AND THE NORTH VACUUM
(ABO) ZONE IN MOBIL'S BRIDGES SANTA FE
STATE COM. WELL NO. 1 LEA COUNTY, NEW
MEXICO.

Gentlemen:

Mobil Oil Corporation respectfully requests exception to Commission's Rule 303(a) and authorization to commingle within the well bore of Mobil's Bridges Santa Fe State Com. Well No. 1 production from the Vacuum (Upper Penn) Zone and North Vacuum (Abo) Zone. This well is located in Unit D, Section 24, Township 17 South, Range 34 East, N.M.P.M., Lea County, Texas. Administrative approval is requested as provided for in Commission's Order No. R-3845.

The subject well qualifies for consideration under the order since both zones to be commingled are oil zones requiring artificial lift and the total daily production volumes of oil and water from both zones do not exceed the prescribed limits. The fluids from each zone are compatible with each other as evidenced by the successful surface commingling of the fluids since 1967.

The sale value of the commingled crude will not be any less than the value of the separated fluids under present operating conditions. Ownership of both zones to be commingled is common. The commingling of these two zones will not jeopardize secondary recovery operations.


Attached are Exhibits A - E which will provide the information required by Rule 303-C-2 of Order No. 3845. In accordance with your requirements, this

2-16-70

application is submitted in duplicate with one copy to the Hobbs District Office of the Commission.

Texaco Inc., the only offset operator, has been notified of this request by a copy of this letter and their waiver of objection has been requested.

Yours very truly,

A handwritten signature in dark ink, appearing to read "Ira B. Stitt". The signature is fluid and cursive, with the first name "Ira" being more prominent.

Ira B. Stitt

Division Operations Engineer

WBSimmons, Jr./ba
Attachments

cc: NMOCC - Hobbs
Texaco Inc., w/attachments
File

EXHIBIT "A"
DATA SHEET

MOBIL OIL CORPORATION
P. O. BOX 633
MIDLAND, TEXAS 79701

APPLICATION FOR EXCEPTION TO RULE 303(a) OF NEW MEXICO OIL CONSERVATION COMMISSION'S RULES & REGULATIONS ALLOWING DOWNHOLE COMMINGLING OF DUALY COMPLETED OIL WELLS BY ADMINISTRATIVE PROCEDURE (ORDER NO. R-3845)

1. Lease Name Bridges Santa Fe State Com.
2. Well No. 1
3. Well Location: Unit D, 660 feet from North line, 860 feet from West line of Section 24, Township 17-S Range 34-E,
Lea County, New Mexico
4. Upper Zone North Vacuum (Abo)
5. Completion Interval 8487' - 8537'
6. Lower Zone Vacuum (Upper Penn)
7. Completion Interval 10,091' - 10,149'
8. Dual Completion Authorized by Commission Order No. MC-1781
9. Current Productivity Test Summary (Form C-116 attached)

	N. Vacuum (Abo) (Upper Zone)	Vacuum (Upper Penn) (Lower Zone)
Producing Method	Pump	Pump
Oil	32 BOPD	12 BOPD
Gas	13.34 Mcf	17.53 Mcf
Water	3 BWPD	2 BWPD
GOR	417	1459
GOR Limit	2000:1	2000:1

10. Bottom-hole Pressure of Upper Zone 574 psi (Estimated)
11. Bottom-hole Pressure of Lower Zone 1216 psi (Estimated)
12. Fluid Characteristics of Each Zone Both zones produce an intermediate sweet type crude. Expect no problems from the formation of untreatable precipitates in the commingled produced water.

By: W. B. Simmons, Jr.
Date: 2-12-70

EXHIBIT "B"
 MOBIL OIL CORPORATION
 P. O. BOX 633
 MIDLAND, TEXAS 79701
 COMPUTATION OF RELATIVE
 VALUES OF THE HYDROCARBON
 PRODUCTIVE BEFORE AND
 AFTER DOWNHOLE COMMINGLING
 (STATEWIDE RULE 303-C-2-h)

LEASE AND WELL NUMBER Bridges Santa Fe State Com. Well No. 1

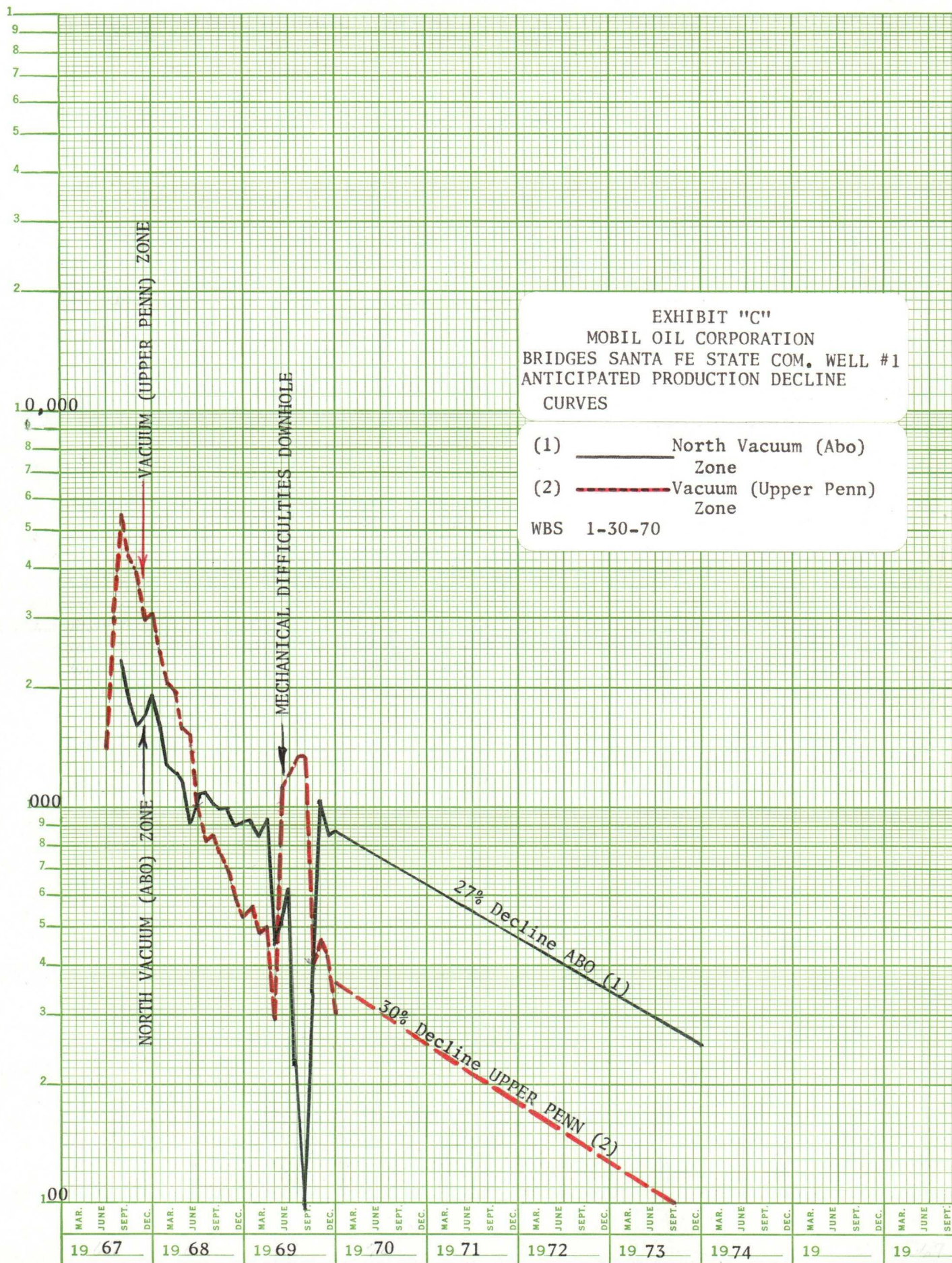
	<u>UPPER POOL</u>	<u>LOWER POOL</u>	<u>COMMINGLED</u>
POOL NAME	N. Vacuum (Abo)	Vacuum (Upper Penn)	
GRAVITY, API	<u>39.0°</u>	<u>41.2°</u>	<u>39.8°</u>
SELLING PRICE /BBL.	<u>\$3.29</u>	<u>\$3.31</u>	<u>\$3.29</u>
DAILY PRODUCTION /BBL.	<u>32</u>	<u>12</u>	<u>44</u>
DAILY INCOME	<u>\$105.28</u>	<u>\$39.72</u>	<u>\$144.76</u>
TOTAL DAILY INCOME (POOLS SEPARATED) \$	<u>145.00</u>		

Net difference realized from downhole commingling based on current well test =
\$ 0.24 /day---~~gain or~~ loss.

REMARKS: Seasonal variations in the crude oil gravities can change the above
calculations. However, the yearly theoretical difference in the relative
average values of the oil production will be negligible. Actually there
will be no real difference in the value of the production because both pools
have been commingled on the surface since 1967 in accordance with the
Commission's Surface Commingling Permit PC-330.

By: WBSimmons Date: 2-12-70

OIL PRODUCTION, BARRELS/MONTH



(EXHIBIT "D")
NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
 Revised 1-1-65

Operator Mobil Oil Corporation		Pool Vacuum Abo No.		County Lea											
Address P.O. Box 633, Midland, Texas 79701		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input 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 BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
Santa Fe Bridges State Com.	1	D	24	17	34	2-10-70	P 2" T	-	98	24	3	39.0	32	13.34	417

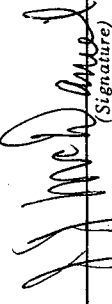
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

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.


 (Signature)

Authorized Agent
 (Title)

2-12-70

(Date)

(EXHIBIT "E")

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO TESTS

C-116

Revised 1-1-65

Operator Mobil Oil Corporation		Pool Vacuum Upper Penn		County Lea											
Address P.O. Box 633, Midland, Texas 79701		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
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 BBL.	GRAV. OIL		OIL BBL.	GAS M.C.F.
Santa Fe Bridges State Com.	1	D	24	17	34	2-12-70	P 2" T	-	32	24	2	41.2	12	17.53	1459

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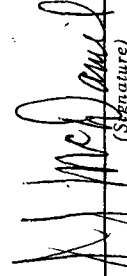
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.


(Signature)

Authorized Agent
(Title)

2-12-70

(Date)

Mobil Oil Corporation

P.O. BOX 633
MIDLAND, TEXAS 79701

March 11, 1970

MAIL ROOM
MAR 12 AM 8 20

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Att: Mr. J. E. Kapteina

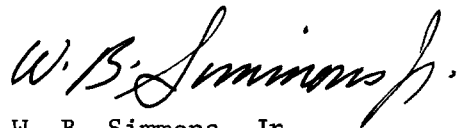
APPLICATION OF MOBIL OIL CORPORATION
FOR EXCEPTION TO NEW MEXICO OIL
CONSERVATION COMMISSION RULE 303(a)
AND AUTHORIZING THE DOWNHOLE COMMINGLING
OF THE VACUUM (UPPER PENN) ZONE AND THE
NORTH VACUUM (ABO) ZONE IN MOBIL'S
BRIDGES SANTA FE STATE COM. WELL NO. 1
LEA COUNTY, NEW MEXICO

Gentlemen:

Please refer to the subject application dated February 16, 1970 and received in your office February 24, 1970.

Attached is a copy of the waiver requested from Texaco Inc., the only offset operator to the subject well.

Very truly yours,



W. B. Simmons, Jr.
Associate Engineer

WBSJr/bje
Attachment

RECEIVED

FEB 24 1970

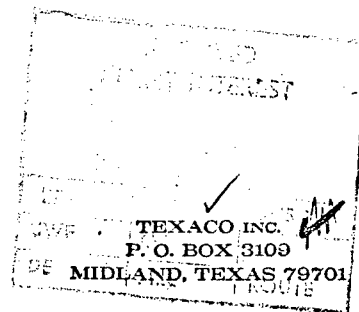
I. B. STITT, JR.
OFFICE



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT -
UNITED STATES
MIDLAND DIVISION

February 18, 1970



WELLBORE COMMINGLING
NORTH VACUUM (ABO) AND
VACUUM (UPPER PENN) POOLS
LEA COUNTY, NEW MEXICO

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

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

Gentlemen:

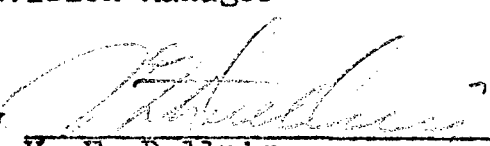
Mobil Oil Corporation has notified Texaco Inc. of their application to commingle in the wellbore production from the above subject pools which are presently dually completed in Mobil's Bridges Santa Fe Com. Well No. 1.

Texaco Inc., as an offset operator, waives objection to this application.

Yours very truly,

Darrell Smith
Division Manager

By


V. F. Dullnig
Assistant Division Manager

CLW/pw

cc: Mobil Oil Corporation
P. O. Box 633
Midland, Texas 79701