



## Mobil Oil Company

A Division of Socony Mobil Oil Company, Inc.  
P. O. BOX 1800, HOBBS, NEW MEXICO 88240

June 2, 1964

Mr. A. L. Porter, Jr., Sec-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2208  
Santa Fe, New Mexico

Dear Mr. Porter:

Application is herewith submitted in triplicate to commingle the crude oil production and casinghead gas from the Vacuum Abo North, Vacuum Wolfcamp, Vacuum Upper Pennsylvanian and Vacuum Devonian Pools on Socony Mobil's State "CC" Unit in the Vacuum Field Area. The State "CC" Unit is an 80 acre standard unit composed of Socony Mobil's State "I" Lease, NW/4 of SW/4, and Amerada's State "VB" Lease, NE/4 of SW/4, both in Sec 36, T-17S, R-34E, Lea County, New Mexico. The attached plat, entitled Exhibit I, shows the relative location of this unit in the Vacuum Field.

Authorization for commingling of these zones is requested under terms of Rule 303. Commingling authorization for the same four zones was previously granted by PC-100, October 4, 1962, Socony Mobil State Bridges Lease.

Production from these four zones is presently expected from Socony Mobil No. 1 State "CC" Unit, currently drilling. This well will be the only one possible on this lease. The attached schematic of the tank battery installation entitled Exhibit II, therefore, notes zone metering only, with no provision for test facilities. Since the well has not been completed, the detail calculations of commingled crude volumes and values have been based on current unit allowables and depth factors, shown on attached Exhibit III.

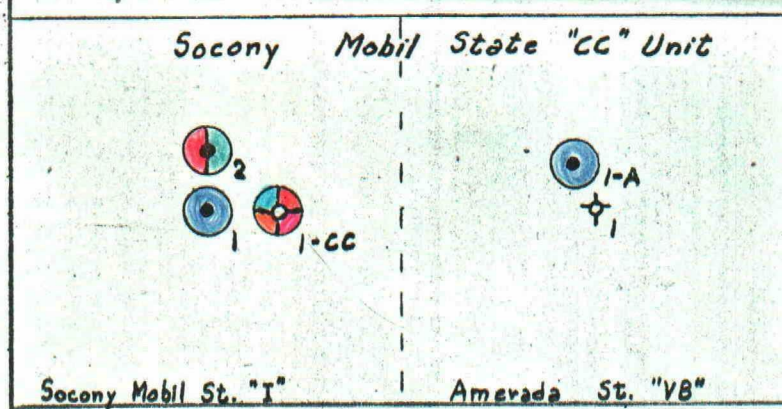
Concurrent with this request, we are submitting a separate request for LACT installation of the subject well.

A copy of this application is being sent to the State Land Office, the royalty owner.

Yours very truly,

*E. A. Davis*  
E. A. Davis  
Acting Producing Superintendent

JCGordon/vvd  
Attachment (3)  
cc: State Land Office



# EXHIBIT I

## LEGEND

-  Vacuum Pool
-  Vacuum Glorieta Pool
-  Vacuum Blinbry Pool
-  Vacuum Abo, North Pool
-  Vacuum Wolfcamp Pool
-  Vacuum Upper Penn Pool
-  Vacuum Devonian Pool

SOCONY MOBIL STATE "CC" UNIT  
N/2, SW/4, SECTION 36, T-17S, R-34E  
LEA COUNTY, NEW MEXICO

NO.	DATE	BY	ALTERATION
Commingled Application			
Abo, Wolfcamp, Penn & Devonian Zones			
SOCONY MOBIL OIL COMPANY, INC.			
Hobbs Producing District			
DRAWN JCG		DWG. NO.	
CHECKED		SCALE 1"=640'	A
		DATE 5-28-64	

IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF (PARTIAL OR COMPLETE) SHALL BE RETURNED TO THE OWNER ON DEMAND.

The diagram illustrates a wellhead and separator system. On the left, four production sources (Abo, Wolfcamp, Penn, Devonian) feed into a vertical manifold. Each source has a wellhead (H/T) and a check valve. A 'Bad Oil H/T' is also shown at the top of the manifold. The manifold connects to a horizontal separator system. The separator consists of three large circular vessels labeled '1000 Bbl ST'. Above the first vessel is an 'ACT Skid' with an outlet 'To Pipe Line'. The separator has multiple inlet and outlet streams with check valves.

This is a one well, multiple zone completion so no test facilities are necessary.

- ST Storage Tank
- HT Heater Treater
- M Meter
- CR Circulating Pump
- CV Check Valve
- BV Block Valve

NO. DATE BY				ALTERATION					
FEDERAL GOVERNMENT STATE OF CALIFORNIA									
SOCONY MOBIL OIL COMPANY, INC.									
FEDERAL BUILDING DISTRICT									
DRAWN J.E.R.				SCALE None			DWG. NO.		
CHECKED J.C.G.				DATE 5-1-64			<b>A</b>		



EXHIBIT III

COMMINGLED FLUID PRODUCTION

SOCONY MOBIL OIL COMPANY, INC.

STATE "CC" UNIT LEASE  
VACUUM FIELD AREA  
LEA COUNTY, NEW MEXICO

<u>Pool</u>	<u>API Gravity</u>	<u>Monthly Production, bbls</u>	<u>Unit Value</u>	<u>Total Value</u>
Vacuum Abo, North	36.7°	5460 (est.)	\$2.93/bbl	\$15,997.80
Vacuum Wolfcamp	41.2°	5460 (est.)	\$3.01/bbl	16,434.60
Vacuum Upper Penn	47.8°	5460 (est.)	\$2.95/bbl	19,116.00
Vacuum Devonian	49.1°	<u>8850 (est.)</u>	\$2.91/bbl	<u>25,753.50</u>
	TOTALS	26,250		\$77,301.90
Vacuum Commingled (cal.)	44.6°	26,250	\$3.01/bbl	\$79,012.50
Difference (value increase calculated)				\$ 1,710.60

NOTE: Top unit allowable of 38 barrels assumed.

JCG/vvd/5-28-64



## **Mobil Oil Company**

A Division of Socony Mobil Oil Company, Inc.

June 23, 1964

Mr. A. L. Porter, Jr., Sec-Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

RE: REVISION OF COMMINGLING  
PROCEDURES REQUESTED FOR  
STATE "CC" UNIT, VACUUM  
FIELD AREA, LEA COUNTY,  
NEW MEXICO


Dear Mr. Porter:

By our original letter, dated June 2, 1964, and by first amendment dated June 9, 1964, we have previously requested your approval of a comingling proposal for our State "CC" Unit in the Vacuum Field Area.

As shown on the attached drawing, submitted as amended, we now propose to separate oil and gas by zone, meter and sample each zone independently, and use heat treatment for water separation after comingling all four possible zones. This drawing is to replace our previously amended drawing, dated May 1, 1964.

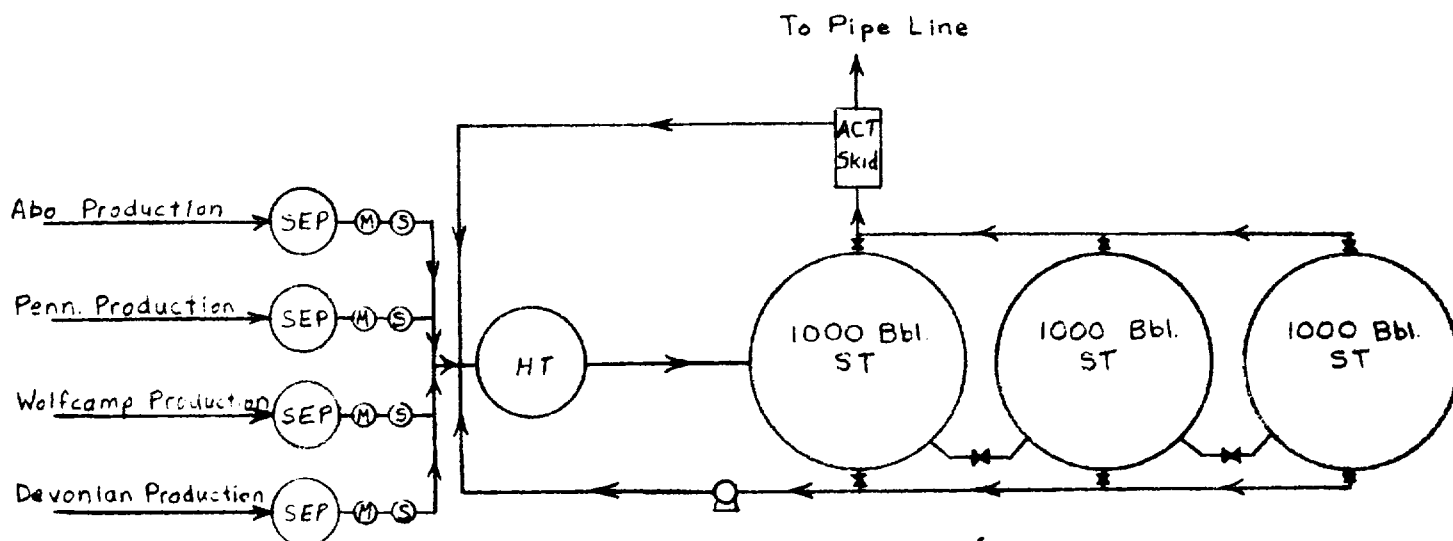
All other data and exhibits are unchanged.

Yours very truly,

  
Glen W. Barb  
Producing Superintendent

Attachments  
JCGordon/vvd

cc: A. L. Porter Jr, 2, State Land Office  
(w/o attachment)



Note

This is a one well, multiple zone completion, so no test facilities are necessary.

# LEGEND

- (ST) Storage Tank
- (HT) Heater Treater
- (M) Meter
- ⊙ Recirculating Pump
- (S) Sampler
- ✕ Block Valve
- (SEP) Separator

NO.	DATE	BY	ALTERATION
PROPOSED COMMINGLING INSTALLATION STATE "CC" LEASE			
SOCONY MOBIL OIL COMPANY, INC. HOBBS PRODUCING DISTRICT			
DRAWN JEB	SCALE None	DWG. NO.	
CHECKED JCG	DATE 6/19/64	A	



# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

GOVERNOR  
DAVID F. CARGO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

December 17, 1970

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

Attention: Mr. Ira B. Stitt

## AMENDMENT

Administrative Orders PC-100, PC-175,  
PC-216, PC-297, PC-332, and PC-362

Gentlemen:

Reference is made to your recent application for the amendment of certain administrative orders which permitted the commingling of production from various pools at certain tank batteries provided that all production from each pool would be separately metered prior to commingling. It is our understanding that all or part of the production going into each of these commingled tank batteries is now of marginal nature and that you therefore wish to remove certain of the meters.

The following administrative orders are amended as described: Administrative Orders PC-100, PC-175, PC-216, and PC-332 are amended to delete the metering requirement. Administrative Order PC-297 is amended to delete the metering requirement for Abo, Blinberry, Upper Pennsylvanian, and Wolfcamp production, but to continue to meter the Glorieta production separately and determine the total production from the other pools by the subtraction method. Allocation to each well in each pool will be by quarterly well tests. Administrative Order PC-362 is amended to delete the metering requirement on Abo and Middle Pennsylvanian production, but to continue to meter the Upper Pennsylvanian production

-2-

December 17, 1970

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

AMENDMENT

Administrative Orders PC-100, PC-175,  
PC-216, PC-297, PC-332, and PC-362

separately and determine the total production from the other pools by the subtraction method. Allocation to each well in each pool will be by quarterly well tests.

Please notify the Commission at such time as any well producing into any of the aforesaid commingled installations is capable of to, allowable production.

Very truly yours,

L. PORTER, Jr.  
Secretary-Director

ALP/DSN/esr

cc: Oil Conservation Commission (with enclosure) - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
State Land Office - Santa Fe



# Mobil Oil Corporation

P.O. BOX 633  
MIDLAND, TEXAS 79701

October 27, 1970

New Mexico Oil Conservation Commission (3)  
P. O. Box 2088  
Santa Fe, New Mexico 87501

REQUEST FOR AMENDMENT TO  
ADMINISTRATIVE ORDER PC-216,  
MOBIL OIL CORPORATION'S STATE  
"CC" LEASE, NORTH VACUUM ABO,  
VACUUM WOLFCAMP, DEVONIAN AND  
UPPER PENN FORMATIONS, COMMINGLING  
WITHOUT SEPARATE MEASURING,  
VACUUM FIELD, LEA COUNTY, NEW MEXICO

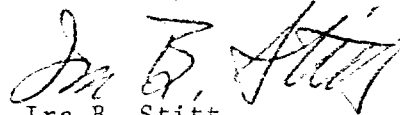
Gentlemen:

Mobil Oil Corporation respectfully requests that Administrative Order PC-216, dated June 25, 1964, be amended so as to permit the commingling of production from the aforementioned pools by determining the production from each well and each pool by well tests conducted periodically as the Commission may prescribe.

As shown on the attached tabulation of production for the months August 1970 and September 1970, the average daily production for this period is considerably below top unit allowable, and the connected wells are now incapable of producing top unit allowable.

The royalty ownership of all commingled zones is identical. Should any further information be required, please advise.

Yours very truly,



Ira B. Stitt  
Division Operations Engineer

JHSeerey/gc

Attachments

cc: Commissioner of Public Lands -  
State of New Mexico  
Supervisor, District 1 - NMOCC

PRODUCTION DATA  
AUGUST 1970 & SEPTEMBER 1970  
STATE "CC" LEASE  
LEA COUNTY, NEW MEXICO  
WELLS CONNECTED  
ORDER PC-216 COMMINGLING PERMIT

<u>Well No.</u>	<u>AVERAGE DAILY OIL PRODUCED</u>	
	<u>August 1970</u> <u>BOPD</u>	<u>September 1970</u> <u>BOPD</u>
<u>North Vacuum Abo</u> 1	56	48
<u>Vacuum Devonian</u> 1	0	0
<u>Vacuum Wolfcamp</u> 1	6	9
<u>Vacuum Upper Penn.</u> 1	Well never completed	

# Mobil Oil Corporation

P.O. BOX 633  
MIDLAND, TEXAS 79701

October 27, 1970

State of New Mexico  
Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico

Attn: Oil & Gas Department

REQUEST FOR AMENDMENT TO  
ADMINISTRATIVE ORDER PC-216,  
MOBIL OIL CORPORATION'S STATE  
"CC" LEASE, NORTH VACUUM ABO,  
VACUUM WOLFCAMP, DEVONIAN AND  
UPPER PENN. FORMATIONS, COMMINGLING  
WITHOUT SEPARATE MEASURING,  
VACUUM FIELD, LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation respectfully requests that Administrative Order PC-216, dated June 25, 1964, be amended so as to permit the commingling of production from the aforementioned pools by determining the production from each well and each pool by well tests conducted periodically as the Commission may prescribe.

As shown on the attached tabulation of production for the months August 1970 and September 1970, the average daily production for this period is considerably below top unit allowable, and the connected wells are now incapable of producing top unit allowable.

The royalty ownership of all commingled zones is identical. Should any further information be required, please advise.

Yours very truly,



Ira B. Stitt  
Division Operations Engineer

JHSeerey/gc  
Attachments

cc: New Mexico Oil Conservation Commission