



# MARATHON OIL COMPANY

P. O. Box 220  
Hobbs, New Mexico

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

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

Dear Sir:

Reference is made to Marathon Oil Company's letter dated May 15, 1964, wherein a request was made for an exception to Rule 303 (a) to permit the commingling in common facilities Vacuum Glorieta, North Vacuum Abo, and Vacuum Wolfcamp production on its State Warn A/c 1 lease comprising the NE/4 of the SW/4 and the SE/4 of the NW/4 of Section 31, T.17S, R.35E, Lea County, New Mexico.

At the time the original request was made Well No. 3 was being drilled and it was a proposed Vacuum Glorieta, North Vacuum Abo, and Vacuum Wolfcamp triple completion. This well has been drilled to a total depth of 10,301' and has penetrated the Upper Pennsylvanian pay horizon. It has been determined from the open hole logs that the Upper Pennsylvanian horizon should be productive in this well. Therefore, Marathon Oil Company respectfully request an exception to Rule 303 (a) to permit the commingling in common facilities Vacuum Glorieta, North Vacuum Abo, Vacuum Wolfcamp, and Vacuum Upper Pennsylvanian production on its State Warn A/c 1 lease. Commingling is proposed after separately metering the Vacuum Glorieta, North Vacuum Abo, and Vacuum Upper Pennsylvanian production and determining the Vacuum Wolfcamp by means of the subtraction method, allocating the production to the Vacuum Wolfcamp zone by means of periodic tests.

Marathon Oil Company presently has one Glorieta well on the subject lease. With the completion of Well No. 3 and the drilling of a single well to the Glorieta, in Unit F, Section 31, T.17S, R.35E, the State Warn A/c 1 lease will be fully developed.

The above described commingling installation will be operated in accordance with the provisions of the Commission "Manual for the Installation and Operation of Commingling Facilities," including the installation of non-reset counters on the meters.

Attached hereto is a data sheet relating to gravity, volumes, and values of the liquid hydrocarbons along with a plat of the State Warn A/c 1 lease and a schematic diagram of the proposed installation. It may be noted that top allowable for each zone has been used in preparing the above data sheet. Marathon Oil Company owns 100 percent working interest in the subject lease. The Commissioner of Public Lands for the State of New Mexico has been furnished a copy of this application and it is requested that he forward his approval of the

MAIN OFFICE OCC

June 12, 1964

1964 JUN 15 AM 7:58

proposed commingling installation to the Oil Conservation Commission.

Yours very truly,

MARATHON OIL COMPANY  
Engineering Department

A handwritten signature in cursive script, appearing to read "John R. Barber".

John R. Barber  
Area Petroleum Engineer

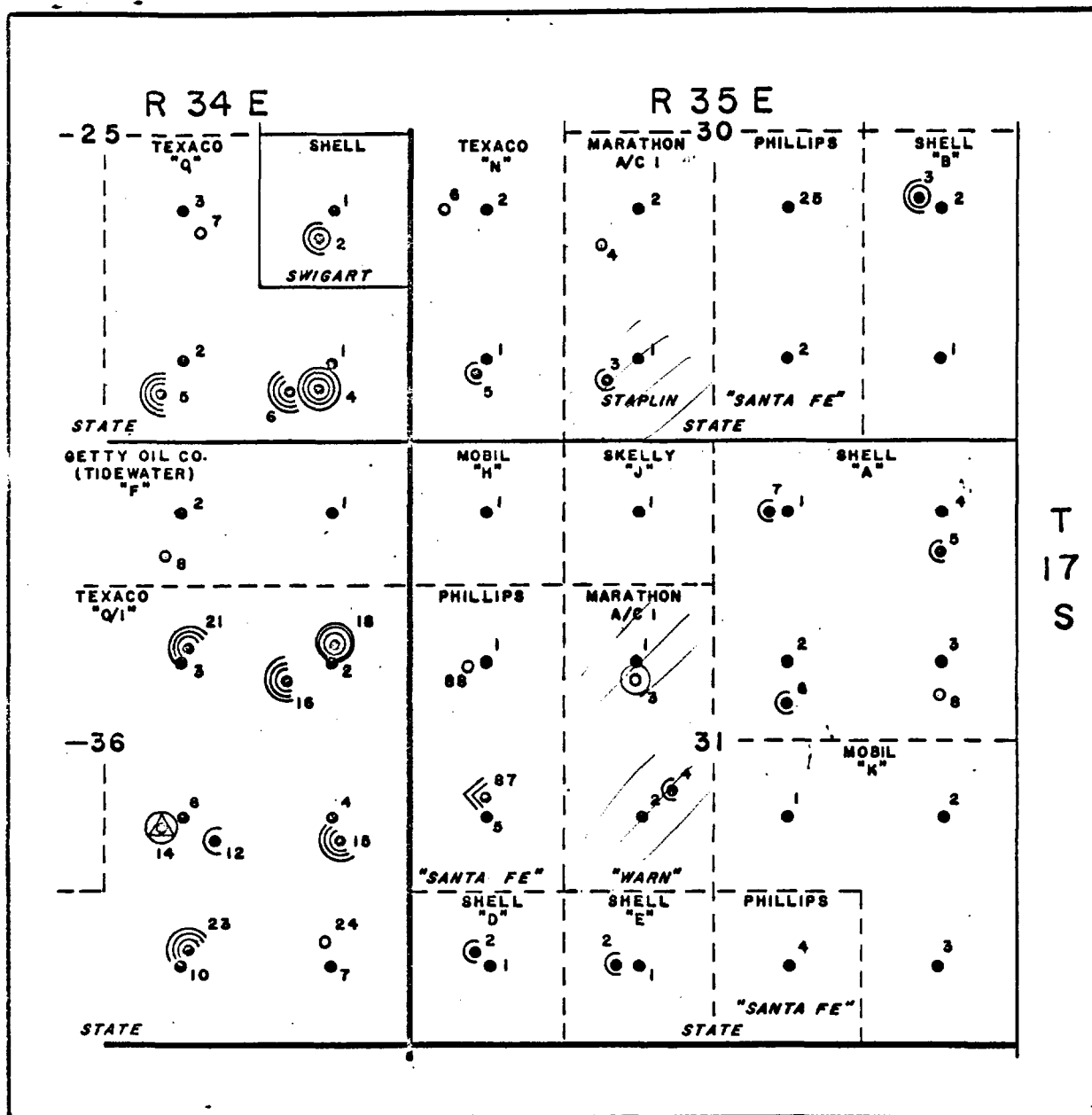
JRB:bje

cc: State Land Commissioner  
Box 791, Santa Fe, N.M.

NMOCC - Hobbs.

Zone	No. Wells	Top Unit Allow. BOPD	Daily Prod. BOPD	Gravity °API	Selling Price \$/Bbl.	Income Per Day \$
Vacuum Glorieta	2	50	100	38.5	2.97	297.00
North Vacuum Abo	1	177	177	39.5	2.99	529.23
Vacuum Wolfcamp	1	177	177	39.5	2.99	529.23
Vacuum Upper Penn.	1	210	<u>210</u>	41.0	3.01	<u>632.10</u>
			664			1987.56
		Total revenue from crude sold from separate storage - - - - -				1987.56
Commingled Values			664	39.8	2.99	1985.36
		Loss in value of crude as a result of commingling - - - - -				\$ 2.20

\* West Texas Intermediate



### LEGEND

- VACUUM GRAYBURG-SAN ANDRES
- ◎ VACUUM BLINEBRY
- ◎ VACUUM GLORIETA
- ◎ DUAL-VACUUM (GLORIETA & BLINEBRY)
- ◎ DUAL-VACUUM (WOLFCAMP) & N. VACUUM (ABO)
- ◎ TRIPLE-VACUUM (WOLFCAMP, PENN) & N. VACUUM (ABO)
- ◎ TRIPLE-VACUUM (WOLFCAMP, GLORIETA) & N. VACUUM (ABO)
- ◎ PROPOSED TRIPLE-VAC. (WOLFCAMP, PENN) & N. VAC. ABO
- DRILLING

MARATHON OIL COMPANY

"Plat of St. Warn A/c 1 Lease"

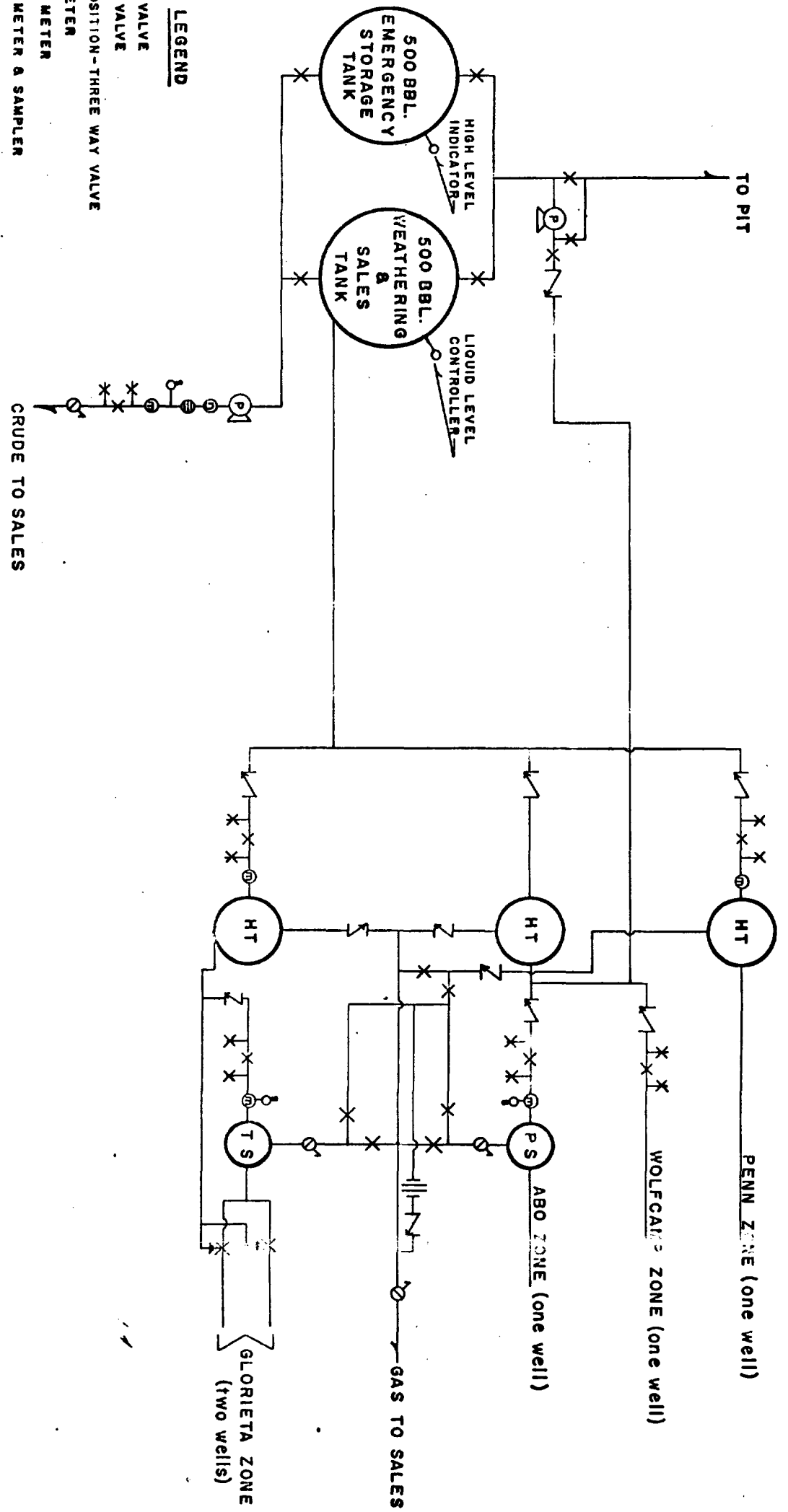
Lea County, New Mexico

Scale: 1" = 1500'

6-11-64

- X BLOCK VALVE
- ~ CHECK VALVE
- ⋈ TWO POSITION-THREE WAY VALVE
- ⋈ GAS METER
- ⋈ LIQUID METER
- ⋈ LIQUID METER & SAMPLER
- ⋈ BACK PRESSURE VALVE
- ⋈ DEAERATOR
- ⋈ STRAINER
- ⋈ PUMP
- ⋈ PROVER OR TEST CONNECTIONS
- ⋈ TEST SEPARATOR
- ⋈ PRODUCTION SEPARATOR
- ⋈ HEATER TREATER

LEGEND



MARATHON OIL COMPANY  
 PROPOSED COMMINGLING AND AUTOMATIC CUSTODY TRANSFER BATTERY  
 STATE WARM A/C I LEASE  
 LEA COUNTY, NEW MEXICO  
 SCALE: NONE  
 MAY 14, 1964