



**Marathon
Oil Company**

P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

April 5, 1977

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

ATTENTION: Mr. Joe D. Ramey, Secretary-Director

Re: Wellbore Commingling, McCallister State Well No. 7, Vacuum Abo North, Vacuum Wolfcamp and Vacuum Upper Penn Pools, Lea County, New Mexico

Gentlemen:

Marathon Oil Company respectfully requests administrative approval to permit downhole commingling of production from the Vacuum Abo North, Vacuum Wolfcamp, and Vacuum Upper Pennsylvanian oil pools in the McCallister State Well No. 7 located in Section 25, Township 17-South, Range 34-East, Lea County, New Mexico. Texaco, Inc. has received permission to downhole commingle these same three zones (Order No. R-4859) in their New Mexico "Q" State Well No. 4, Unit P, Section 25, Township 17-South, Range 34-East. Getty has also received permission to downhole commingle these same three zones (Order No. R-4468) in their State "BA" Well No. 6, Unit D, Section 36, Township 17-South, Range 34-East.

The Upper Pennsylvanian zone is unable to continually flow without swabbing. The Abo zone has been shut in since December 1968 and the Wolfcamp zone since December 1972. In both cases the zones were temporarily abandoned due to mechanical failure of the gas-lift valves.

In support of this request and in accordance with Rule 303, Paragraph C, the following facts are submitted:

1. The attached plat shows the McCallister State Lease and the location of Well No. 7.
2. This well was triply completed in the Vacuum Abo North, Vacuum Wolfcamp and Vacuum Upper Pennsylvanian Pool as approved by NMOCC Order No. MC-1345-A dated August 11, 1964.
3. The C-116 Terms for these three zones are attached. No zone produces more water than the combined oil production total. The combined production does not exceed the total top allowable of 80 BOPD for this depth as defined in Rule 303(C), Paragraph E.

4. Marathon Oil Company has commingled production from these zones at the surface (Order No. PC-136) and they are known to produce compatible fluids. Since the oil is commingled at the surface, downhole commingling would not result in a reduction of oil value.
5. The ownership of the zones to be commingled is common.
6. Attached are production decline curves of production from these three zones.
7. The measured static bottom-hole pressure for the three zones at -5900' Datum are as follows: Abo 1536 psi, Wolfcamp 1390 psi, Upper Penn 950 psi.
8. Downhole commingling will not jeopardize the efficiency of future secondary operations.
9. Attached is a schematic diagram of the proposed completion.
10. Copies of this application have been furnished to the offset operators.

Yours truly,

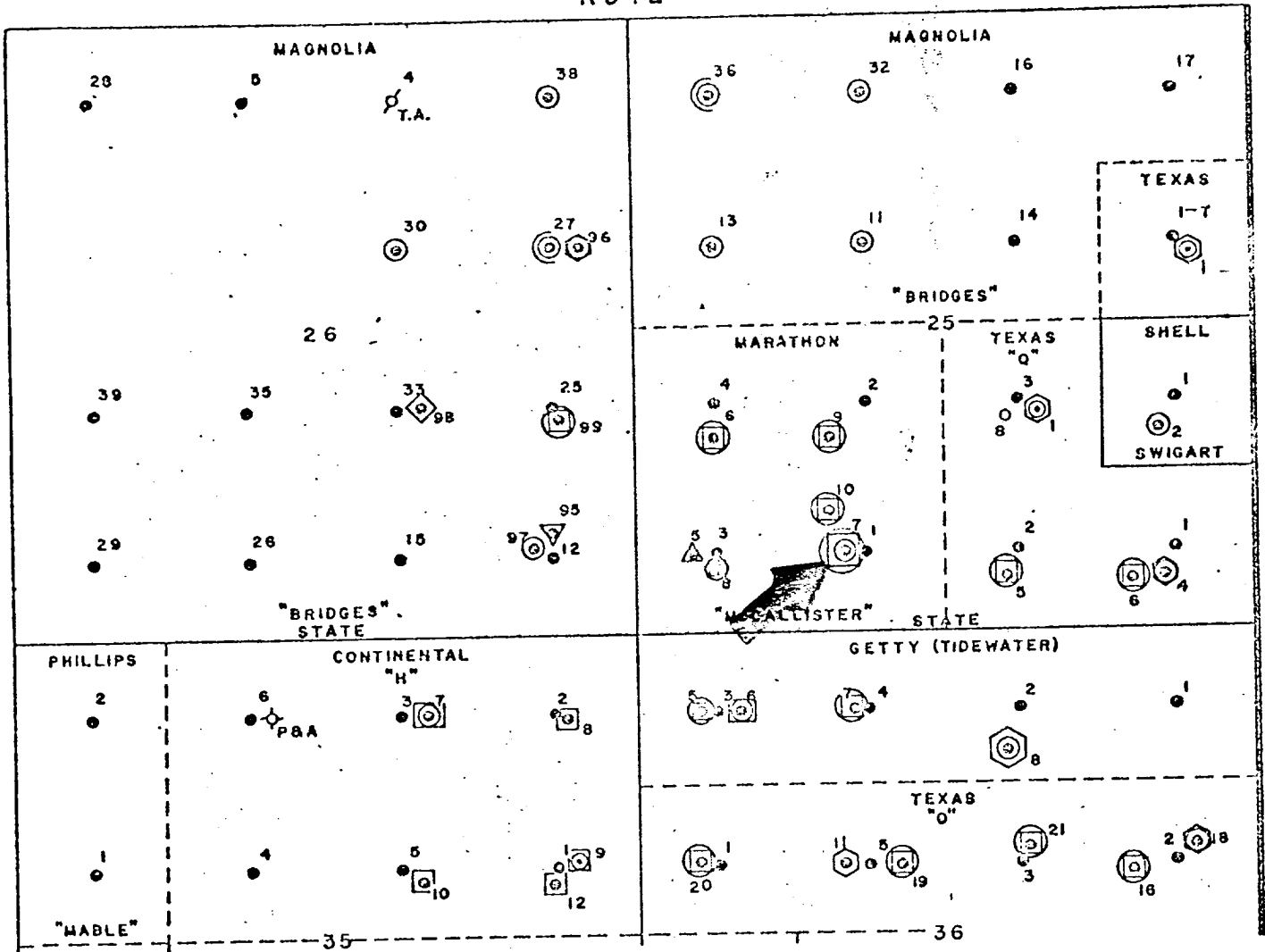
MARATHON OIL COMPANY



C. S. Hilton, Jr.
Operations Superintendent

ARK:mfm
Enclosures

R 34 E



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17
S

MARATHON OIL COMPANY

"Plot of St. McCallister Lease"

Lea County, New Mexico

Scale: 1"=1500'

6-11-64