MAPCO OIL & GAS COMPANY OFFICERS AND DIRECTORS

OFFICERS

President Vice President and Treasurer Secretary Robert M. Howe Frank S. Dickerson, III James N. Cundiff

DIRECTORS

Robert M. Howe David W. Bowman

The addresses of the above officers and directors are as follows:

1800 South Baltimore Avenue Tulsa, Oklahoma 74119 (918) 581-1800

(MAPCO Oil & Gas Company formerly MAPCO Production Company - name changed December 21, 1983, effective December 31, 1983).

Revised 4/15/93