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CASE NO. 7352

APPLICATION OF YATES PETROLEUM CORPORATION

FOR DESIGNATION OF A TIGHT FORMATION

EDDY COUNTY, NEW MEXICO

APPLICATION

Yates Petroleum Corporation seeks tight formation designation for a portion of the Permo-Penn underlying lands in western Eddy County, New Mexico, which are described in Exhibit No. 1 and shown in map form in Exhibits No. 2 and 3.

DESCRIPTION OF FORMATION BY GEOLOGICAL PARAMETERS

The formation sought to be covered by this application is that stratigraphic interval between the top of a marker named the Third Sister Cycle (of the Wolfcamp Series of the Permian System) and the top of the Canyon Series (of the Pennsylvanian System).

Correlations of the Third Sister Cycle and The Canyon Series are shown on a network of 4 crossections spread over the subject area. (Exhibits 5 through 8). Positions of the Third Sister and Canyon in the geologic column are illustrated in Exhibit 4.

The Third Sister Cycle to Canyon Series varies from approximately 1000 to 1400 feet in thickness.