ABSTRACT

PAINTER RESERVOIR, EAST PAINTER RESERVOIR
AND CLEAR CREEK FIELDS,
UINTA COUNTY, WYOMING1

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Painter Reservoir, East Painter Reservoir and Clear Creek fields are part of a series of recent major hydrocarbon discoveries in the Thrust Belt Province of northeastern Utah — southwestern Wyoming. The fields are located five to ten miles northeast of Evanston in Uinta County, Wyoming. The fields were discovered between 1977 and 1979 and all are currently undergoing development drilling.

Oil and gas production in the fields is from the Triassic-Jurassic Nugget Sandstone. In the subject area, the Nugget is a vari-colored, fine to medium-grained, quartz arenite believed to be of eolian origin. Nugget Sandstone core porosity averages 12.5 percent and core permeability averages approximately 5.4 millidarcys.

Painter Reservoir and East Painter Reservoir fields will probably qualify as giant fields. Present estimates of in-place hydrocarbons in the three fields total approximately 287 million barrels of oil or condensate and 1.6 trillion cubic feet of gas.

All three fields occur in asymmetric or overturned folds on the hanging wall of the Absaroka Thrust. However, each field exhibits a different structural style which together illustrate the range of conditions that may be encountered in Thrust Belt Provinces.

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