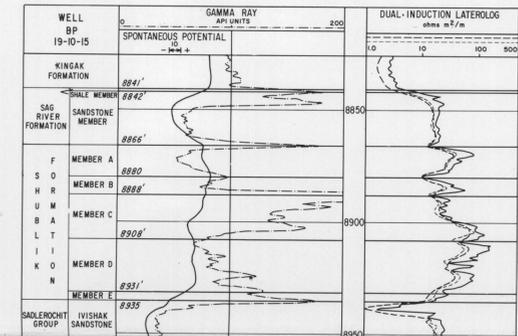
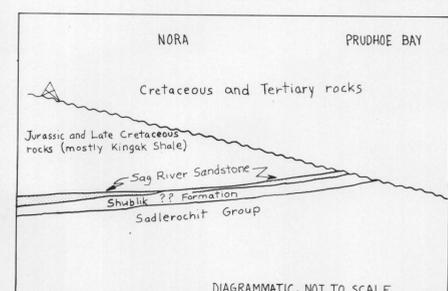
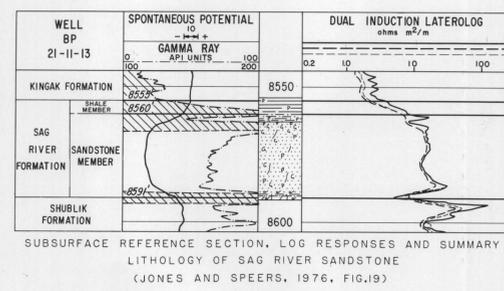


Notes

The Sag River Sandstone, known only in the subsurface, forms the top reservoir unit of the Prudhoe oil pool. As shown by the figures from Jones and Speers (1976) (see also Maps P and Q), it is very distinctive on electric and lithologic logs. The unit consists generally of a fossiliferous, glauconitic sandstone of marine, possibly barrier-beach origin (North Slope Stratigraphic Committee, 1970; Jones and Speers, 1976). The sandstone, as determined from spontaneous potential logs, is overlain by a silty zone of distinctive resistivity on the resistivity logs throughout the northern part of the map area. Departing from Stratigraphic Committee usage (Fackler, 1971; Mangus and Pessel, 1972), we include the silty zone with the Sag River on these maps. Jones and Speers (1976) included the zone with the Sag River on a lithogenetic basis. In the vicinity of the Colville River, the thickening to the north is due mostly to an increase in thickness of this upper zone.

Jones and Speers (1976) relegate the Triassic-Jurassic boundary to within the overlying siltstone. They also note an apparent lithologic transition upwards from the Shublik Formation into the Sag River Sandstone.

The Sag River Sandstone has been correlated with the Karen Creek Sandstone in outcrop (North Slope Stratigraphic Committee, 1970; Fackler, 1971; Mangus and Pessel, 1972; Dettmerman and others, 1975). However, the Sag River thins from the north in the Prudhoe Bay area and may be absent in the central part of the map area, implying that there are two separate clastic units above the Shublik Formation.



Base from Harrison Bay, Beechey Point, Flaxman Island, 1955, Umiat, Sagavanirktok and Mount Michelson, 1956, 1:250,000 U.S. Geological Survey

GENERALIZED ISOPACH MAP OF SAG RIVER SANDSTONE AND OVERLYING SILTSTONE
EASTERN NORTH SLOPE PETROLEUM PROVINCE, ALASKA

BY G.H. PESSER, J.A. LEVORSEN, I.L. TAILLEUR 1978

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