

# **PRUDHOE BAY, W BEACH OIL**

## **Reference List**

Alaska Oil and Gas Conservation Commission, 1993, Conservation Order No. 311, Prudhoe Bay Field, West Beach Oil Pool; available on line at [http://www.aogcc.alaska.gov/orders/co/co300\\_399/co311.htm](http://www.aogcc.alaska.gov/orders/co/co300_399/co311.htm)

Alaska Oil and Gas Conservation Commission, 2005, Well and Production Information Database

# Prudhoe Bay, West Beach Oil Pool

## Summary

The West Beach Oil Pool was discovered in 1976 by ARCO's West Beach No. 3 well, which encountered approximately 12 feet of hydrocarbon bearing sand in the Kuparuk Formation ("Kuparuk") that tested at a rate of 2.4 MMCFD of gas and 208 B/D of condensate. West Beach No. 4, drilled approximately 1.2 miles east of West Beach No. 3 in 1991, penetrated 199' of oil column in the Kuparuk. Following fracture stimulation, the well tested 2,459 barrels of oil with a minor amount of water. No oil-water or gas-oil contact was encountered in either well. Three dimensional seismic data and subsurface well data support an interpretation that wells WB#3B and WB#4 penetrated a single fault block, which appears to be in partial fault contact with the Pt McIntyre oil accumulation to the north and with the Lisburne Oil Pool to the south. Reported reservoir are 12.1% to 25.8% porosity, 25 to 189 millidarcies permeability, and 35% to 41% water saturation. Volumetric estimates range between 12 and 65 MMB oil in place and 10 to 56 BCF gas originally in place.<sup>1</sup> Regular production from the pool began from a single well in April 1993, and quickly peaked at an average daily rate of 4,033 barrels of oil per day in July 1993. By July of 1997, oil production had dropped to about 1,000 barrels per day. Two additional wells were brought on line in the spring and summer of 1999. Oil production climbed to 3,426 barrels per day by August, but then declined rapidly to less than 1,000 barrels per day by July 2000. The last recorded month of production was August 2004, which averaged 48 barrels of oil and 815 MCF of gas per day.<sup>2</sup>

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<sup>1</sup> Alaska Oil and Gas Conservation Commission, 1993, Conservation Order No. 311, Prudhoe Bay Field, West Beach Oil Pool

<sup>2</sup> Alaska Oil and Gas Conservation Commission, 2005, Well and Production Information Database