

3:41 PM SUN., 29 AUG., 1993

ARCO ALASKA
PRUDHOE BAY CENTRAL LABORATORY
ANALYTICAL REPORT

SAMPLE NUMBER: 42002 ANALYSIS : Miscellaneous
FACILITY : Other METER # :
WELL NUMBER:
SAMPLE DATE : 08/28/93 OCS-Y- 0865 #1 SAMPLE TIME: 00:00
SAMPLE POINT : EXPLORATION (Kuvlum #2)
SAMPLE DESC. : FLUIDS FROM 1 GAL. DOWNHOLE SAMPLER (7095')

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This sample was handled as such:

The cylinder was depressured into an open graduated cylinder and left covered for 12 hours to allow free water to drop out. The layers observed are the ones reported in the last paragraph of this report.

A portion of the emulsion was spun out to determine the water trapped there. After spinout, the oil layer was titrated to determine the water still contained by the oil. The spinout showed the emulsion to be composed of 10% water (this equals approx. 2% of the total sample) and the titration showed the remaining oil to still contain approx. 1% water.

The oil recovered from the spinout was brown-black in appearance (less black than typical Sadlerochit crude), perhaps due to the 1% water present. The spinout also indicated approx. 0.5% solids present in the emulsion layer. The oil recovered from the spinout was the oil used for API calculation and showed a density of 0.8965 when compared to water. The API gravity was calculated with all water removed.

Total water = 75.1%
API gravity = 26.5 (with water out)
Chlorides (in water fraction) = 13300 mg/L

There were 3400 ml of fluid recovered from this sample cylinder with approximately 72% free water, 19% emulsion, 3% free oil, and 6% froth observed after setting for 12 hours.

COMPLETED BY

REVIEWED BY

TIM SCARBROUGH ATO-1290