

XRF Analyses of Husky Oil NPR Operations Inc. (U. S. Geological Survey) Walakpa
Test Well No. 1, Core No. 5 (2,037.3', and 2,038.3').



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Total of 2 pages in report (have data CD)

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ADVANCED INSTRUMENTATION LABORATORY

EPMA - SEM - ESEM - TEM - AFM - XRF - (LA, LC) ICP-MS



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16 September 2008

To: John Reeder, Curator of the Alaska Geologic Materials Center

Re: Walakpa Test Well No. 1, Core No. 5

From: Dolores van der Kolk, UAF M.S. Candidate

The following report includes analytical data for two samples that were collected from core housed at the Geologic Materials Center in Eagle River, Alaska. The two samples were collected from the Walakpa Test Well No. 1, Core No. 5 at ~2,037.3 (Walakpa1-2037.3) and ~2,038.3 (Walakpa1-2038.3) feet. These samples were analyzed with Panalytical Axios wavelength dispersive X-ray fluorescence spectrometer (XRF) for major oxides and trace elements at the University of Alaska Fairbanks. Each sample was crushed with a rock crusher, ground with a mortar and pestle, and pressed into a pellet for analysis.

The precision of uranium (U) is within 0.5 ppm with an accuracy of +/- 1 ppm. The precision of thorium (Th) is within 1 ppm with an accuracy of +/- 2 ppm. The precision of the other trace elements is within 3% of the amount present with an accuracy of +/- 10-20% of the amount present. For the major elements, the precision is within 1% of the amount present with accuracy within 5% of the amount present.

Please contact me if you have any questions.

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XRF Analyses of Walakpa Test Well No. 1, Core No. 5

| Units | Constituent | Walakpa1-2037.3 | Walakpa1-2038.3 |
|------------------------------------|--------------------------------|-----------------|-----------------|
| Weight % (wt %) | F | 0.1 | 0.1 |
| | Na ₂ O | 1.0 | 0.7 |
| | MgO | 2.1 | 5.4 |
| | Al ₂ O ₃ | 25 | 18 |
| | SiO ₂ | 59.1 | 38.4 |
| | P ₂ O ₅ | 0.10 | 1.22 |
| | S | 1.0 | 0.1 |
| | K ₂ O | 3.6 | 1.9 |
| | CaO | 0.2 | 5.0 |
| | TiO ₂ | 1.2 | 0.7 |
| | MnO | 0.02 | 0.16 |
| | FeO | 5.7 | 29 |
| | BaO | 0.07 | 0.08 |
| Parts per million (ppm) | V | 291 | 211 |
| | Cr | 178 | 106 |
| | Cl | 165 | 530 |
| | Ni | 89 | ND |
| | Cu | 44 | ND |
| | Zn | 158 | 74 |
| | Ga | 37 | 18 |
| | As | 12 | ND |
| | Rb | 139 | 76 |
| | Sr | 173 | 290 |
| | Y | 34 | 66 |
| | Zr | 201 | 122 |
| | Nb | 24 | 14 |
| | Ce | 130 | 165 |
| | Pb | 41 | 21 |
| | Th | 19 | 10 |
| | U | 5 | 5 |
| Sn | 4 | <1 | |

ND = not detected.