

Table OA3. Stable carbon isotope data of oil seeps, oil stains and oils.

Sample #	Sample ID	Depth (ft)	Formation	Additional Information	$\delta^{13}\text{C}$ Sat	$\delta^{13}\text{C}$ Arom
1	1 W. Mikkelsen	11359	Lisburne	oil stained rock - Flow test #4	-30.42	-29.65
2	1 W. Mikkelsen	11705	Lisburne	oil stained rock - open hole DST	-30.20	-29.31
3	13-9-19 Mikkelsen Bay	10468	Canning	oil - DST#7- 45bbbls 30°API	-29.64	-28.78
4	13-9-19 Mikkelsen Bay	11870	Lisburne	oil - DST#4 - 8bbbls	-29.01	-28.69
5	2 W. Mikkelsen	10501	Canning	oil stained sst - DST	-30.08	-29.25
6	2 Point Thomson	11624	Canning	oil stained sst - test - 21°API	-29.07	-28.37
7	18-9-23 West Staines	11672	Canning	oil stained sst - DST#10 27°API	-29.24	-28.38
8	18-9-23 W Staines	12512	Hue	oil - DST#8 -26bbbls	-29.77	-29.01
9	1 Point Thomson	11424	Canning	oil stained sst - DST#3 44°API	-29.07	-28.10
10	1 Point Thomson	12848	Thomson	oil stained sst - prod test#2 - 45°API	-28.88	-28.15
11	1 Point Thomson	13013	Thomson	oil stained conglom. prod. test#1 18°API	-29.26	-28.61
12	F-1 Alaska State	12066	Canning	oil stained sst - test - 22°API	-29.49	-28.78
13	F-1 Alaska State	13818	Thomson	oil stained congl. - test - 35°API	-28.95	-28.16
14	3 Point Thomson	13872	Thomson	oil stained sst - test- 38°API	-28.83	-28.20
15	C-1 Alaska State	13612	Thomson	oil stained sst - no test	-29.40	-28.66
16	A-1 Alaska State	12575	Canning	oil stained sst - DST2 - 23°API	-29.70	-28.89
17	D3 Put River	10417	Sadlerochit	oil - Prudhoe Bay field (R165-123)	-29.54	-28.89
18	97DH88 Sagwon Bluffs	outcrop	Sagavanirktok	oil stained sst near Sagavanirktok River	-28.98	-28.16
19	96RCB2 -Kavik	outcrop	Sagavanirktok	oil stained sst from Kavik area	-29.02	-27.99
20	97DH38 "Navy" section	outcrop	Canning	oil stained sst near 96074-009	-29.30	-28.55
21	96RCB14B	outcrop	Sagavanirktok	oil stained sst from Canning River area	-29.52	-28.57
22	80/84 AMK-41	outcrop	Canning	oil stained sand - S. Katakturuk 4N-27E-11	-29.21	-28.40 adjusted
22	80/84 AMK-41	outcrop	Canning	oil stained sand - S. Katakturuk 4N-27E-11	-29.47	-28.78 measured
23	95DLG-2A1	outcrop	Sagavanirktok	oil stained sst from N. Katakturuk	-29.22	-27.80
24	95DLG-6A	outcrop	Sagavanirktok	oil stained sst from Jago River	-28.97	-28.29
25	95DLG-MP1	outcrop	alluvium	oil seep from Manning Point	-28.07	-27.16
26	95DLG-MP2	outcrop	alluvium	oil seep from Manning Point	-28.12	-27.08
27	1 OCS Y-0943 Aurora	9634-71	Canning	oil stained siltstone/mudstone - composite	-28.80	-27.71
28	97CRB17	outcrop	alluvium	oil stained sst - Angun Point	-28.60	-27.77
29	Seismic Line B19 57-80	45	Nanushuk Gp.	oil - shot point 53 (R165-063)	-28.72	-27.65
30	32-25 Kavearak Point	7702	Kingak	oil - Milne Point field (R165-108)	-31.80	-30.59

43	2 W. Mikkelsen	10555	Canning	mudstone extract	-29.37	-27.87
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22 original measured values by Anders and others (1987), adjusted for different chromatography method (see text)