

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0001	(Offshore)	53.69433	162.58200	-549	2-15	Eocene(?)		0.50	Bruns et al., 1985
VO-0002	(Offshore)	53.69433	162.58200	-549	2-16	L.-M. Miocene		0.38	Bruns et al., 1985
VO-0003	(Offshore)	58.19250	139.08027		S10-79-EG 18A			4.56	PGS - Record # 55099950160000010
VO-0004	(Offshore)	58.28555	139.52527		S10-79-EG 20E			0.60	PGS - Record # 55099950170000010
VO-0005	(Offshore)	58.28555	139.52527		S10-79-EG 20B			0.61	PGS - Record # 55099950170000020
VO-0006	(Offshore)	58.31722	139.47888		S10-79-EG 21F			0.57	PGS - Record # 55099950190000010
VO-0007	(Offshore)	58.31722	139.47888		S10-79-EG 21E			0.54	PGS - Record # 55099950190000020
VO-0008	(Offshore)	58.31722	139.47888		S10-79-EG 21D			0.57	PGS - Record # 55099950190000030
VO-0009	(Offshore)	58.54694	140.11083		S 2-77-EG 17E			0.22	PGS - Record # 55099950030000010
VO-0010	(Offshore)	58.54694	140.11083		S 2-77-EG 17B			0.43	PGS - Record # 55099950030000020
VO-0011	(Offshore)	58.57861	140.11083		S 2-77-EG 18A			0.25	PGS - Record # 55099950040000010
VO-0012	(Offshore)	58.59972	140.35611		S10-79-EG 24C			0.34	PGS - Record # 55099950220000010
VO-0013	(Offshore)	58.59972	140.35611		S10-79-EG 24B			0.33	PGS - Record # 55099950220000020
VO-0014	(Offshore)	58.59972	140.35611		S10-79-EG 24A			0.33	PGS - Record # 55099950220000030
VO-0015	(Offshore)	58.62305	140.59527		S 2-77-EG 10B			0.52	PGS - Record # 55099950010000010
VO-0016	(Offshore)	58.65249	140.61500		S 2-77-EG 11B			0.39	PGS - Record # 55099950020000010
VO-0017	(Offshore)	58.68111	140.92194		S10-79-EG 26J			0.42	PGS - Record # 55099950250000010
VO-0018	(Offshore)	58.73388	140.95666		S10-79-EG 36C			0.33	PGS - Record # 55099950260000010
VO-0019	(Offshore)	58.73388	140.95666		S10-79-EG 36D			0.36	PGS - Record # 55099950260000020
VO-0020	(Offshore)	58.73388	140.95666		S10-79-EG 36A			0.32	PGS - Record # 55099950260000030
VO-0021	(Offshore)	58.75444	141.20416		S10-79-EG 37C			0.48	PGS - Record # 55129950290000010
VO-0022	(Offshore)	58.75444	141.20416		S10-79-EG 37B			0.50	PGS - Record # 55129950290000020
VO-0023	(Offshore)	58.75444	141.20416		S10-79-EG 37A			0.37	PGS - Record # 55129950290000030
VO-0024	(Offshore)	58.76000	141.21055		S 2-77-EG 43F			0.55	PGS - Record # 55129950080000010
VO-0025	(Offshore)	58.76500	141.14138		S 2-77-EG 44F			0.29	PGS - Record # 55129950090000010
VO-0026	(Offshore)	58.76500	141.14138		S 2-77-EG 44E			0.33	PGS - Record # 55129950090000020
VO-0027	(Offshore)	58.76500	141.14138		S 2-77-EG 44D			0.32	PGS - Record # 55129950090000030
VO-0028	(Offshore)	58.78166	141.16666		S10-79-EG 38C			0.44	PGS - Record # 55129950320000020
VO-0029	(Offshore)	58.78166	141.16666		S10-79-EG 38A			0.46	PGS - Record # 55129950320000030
VO-0030	(Offshore)	58.79055	141.20027		S10-79-EG 42E			0.47	PGS - Record # 55129950370000010
VO-0031	(Offshore)	58.79055	141.20027		S10-79-EG 42D			0.46	PGS - Record # 55129950370000020
VO-0032	(Offshore)	58.79138	141.16111		S10-79-EG 39G			0.50	PGS - Record # 55129950340000010
VO-0033	(Offshore)	58.79138	141.16111		S10-79-EG 39F			0.46	PGS - Record # 55129950340000020
VO-0034	(Offshore)	58.79138	141.16111		S10-79-EG 39D			0.61	PGS - Record # 55129950340000030
VO-0035	(Offshore)	58.81444	141.17194		S10-79-EG 43E			0.40	PGS - Record # 55129950390000010
VO-0036	(Offshore)	58.81444	141.17194		S10-79-EG 43A			0.44	PGS - Record # 55129950390000020
VO-0037	(Offshore)	58.85472	141.12444		S10-79-EG 44A			0.34	PGS - Record # 55129950410000010
VO-0038	(Offshore)	58.88611	142.05583		S 2-77-EG 20B			3.32	PGS - Record # 55129950050000010
VO-0039	(Offshore)	58.97666	141.99472		S 2-77-EG 22B			0.43	PGS - Record # 55129950060000010
VO-0040	(Yukon)	65.60111	140.75000	671	786-31-5	L. Cretaceous	Kandik Gp	2.09	Underwood et al., 1989
VO-0041	(Yukon)	65.60222	140.74222	671	786-31-3b	Triassic-L. Cretaceous	Clenn Sh	1.76	Underwood et al., 1989
VO-0042	(Yukon)	65.60222	140.74222	671	786-31-3c	Triassic-L. Cretaceous	Clenn Sh	1.57	Underwood et al., 1989
VO-0043	(Yukon)	65.85111	140.81528	610	786-23-1a	Triassic-L. Cretaceous	Clenn Sh	2.10	Underwood et al., 1989
VO-0044	(Yukon)	65.85111	140.81528	610	786-23-1b	Triassic-L. Cretaceous	Clenn Sh	1.82	Underwood et al., 1989
VO-0045	(Yukon)	65.85111	140.82306	579	786-23-2	Valanginian	Biederman Arg	1.70	Underwood et al., 1989
VO-0046	(Yukon)	65.85111	140.85722	579	786-23-3	Valanginian	Biederman Arg	2.21	Underwood et al., 1989
VO-0047	(Yukon)	67.41666	140.88333		80ATR14	Jurassic	Kingak Sh	3.98	PGS - Record # 99082950070000010
VO-0048	(Yukon)	69.49583	140.51666		76AMU 44-1			3.45	PGS - Record # 99082950060000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0049	Afognak	58.602	153.974		0043375		Kaguyak	1.40	Chevron
VO-0050	Afognak	58.638	153.845		76B-81+1	U. Cretaceous	Kaguyak	2.62	Shell Oil Company
VO-0051	Afognak	58.638	153.845		76B-81+30	U. Cretaceous	Kaguyak	2.54	Shell Oil Company
VO-0052	Afognak	58.638	153.845		76B-81+40	U. Cretaceous	Kaguyak	2.78	Shell Oil Company
VO-0053	Afognak	58.638	153.845		76B-81+90	U. Cretaceous	Kaguyak	2.62	Shell Oil Company
VO-0054	Afognak	58.638	153.845		76B-81+120	U. Cretaceous	Kaguyak	2.55	Shell Oil Company
VO-0055	Afognak	58.638	153.845		76B-81+150	U. Cretaceous	Kaguyak	2.40	Shell Oil Company
VO-0056	Afognak	58.638	153.845		76B-81+200	U. Cretaceous	Kaguyak	2.65	Shell Oil Company
VO-0057	Afognak	58.638	153.845		76B-81+280	U. Cretaceous	Kaguyak	2.44	Shell Oil Company
VO-0058	Afognak	58.638	153.845		76B-81+360	U. Cretaceous	Kaguyak	2.96	Shell Oil Company
VO-0059	Afognak	58.638	153.845		76B-81+390	U. Cretaceous	Kaguyak	2.84	Shell Oil Company
VO-0060	Afognak	58.638	153.845		76B-81+450	U. Cretaceous	Kaguyak	2.33	Shell Oil Company
VO-0061	Afognak	58.638	153.845		76B-81+615	U. Cretaceous	Kaguyak	2.22	Shell Oil Company
VO-0062	Afognak	58.646	153.610		0043382			1.28	Chevron
VO-0063	Afognak	58.858	153.286		76B-82+55	Eocene	West Forelands	3.00	Shell Oil Company
VO-0064	Afognak	58.858	153.286		76B-82+75	Eocene	West Forelands	3.58	Shell Oil Company
VO-0065	Afognak	58.858	153.286		76B-83+0	Eocene	West Forelands	1.36	Shell Oil Company
VO-0066	Afognak	58.858	153.286		76B-83+15	Eocene	West Forelands	2.83	Shell Oil Company
VO-0067	Afognak	58.858	153.286		76B-84	Eocene	West Forelands	2.67	Shell Oil Company
VO-0068	Afognak	58.946	153.407		76B-75+0	Eocene	West Forelands	4.07	Shell Oil Company
VO-0069	Afognak	58.946	153.407		76B-75-100	Eocene	West Forelands	3.45	Shell Oil Company
VO-0070	Anchorage	61.650	149.853		61J-229	Tertiary	Kenai	0.47	Shell Oil Company
VO-0071	Anchorage	61.665	149.073		64E100+143	Paleocene	L. Chickaloon	0.79	Shell Oil Company
VO-0072	Anchorage	61.665	149.073		64E100+150	Paleocene	L. Chickaloon	0.72	Shell Oil Company
VO-0073	Anchorage	61.665	149.073		64E100+239	Paleocene	L. Chickaloon	0.72	Shell Oil Company
VO-0074	Anchorage	61.665	149.073		64E100+240	Paleocene	L. Chickaloon	0.76	Shell Oil Company
VO-0075	Anchorage	61.680	148.133		64F1+8	Oligocene	Kenai-Hss	0.57	Shell Oil Company
VO-0076	Anchorage	61.680	148.133		64F1+20	Paleocene	Chickaloon	0.74	Shell Oil Company
VO-0077	Anchorage	61.695	148.949		64E203+125	Companian-Mastrichtian	Matanuska-U.K.	1.11	Shell Oil Company
VO-0078	Anchorage	61.695	148.949		64E205+110-A	Companian-Mastrichtian	Matanuska-U.K.	0.89	Shell Oil Company
VO-0079	Anchorage	61.695	148.949		64E205+110-B	Companian-Mastrichtian	Matanuska-U.K.	0.95	Shell Oil Company
VO-0080	Anchorage	61.695	148.949		64E205+700	Companian-Mastrichtian	Matanuska-U.K.	0.69	Shell Oil Company
VO-0081	Anchorage	61.695	149.252		64F1+13	Oligocene	Kenai	0.58	Shell Oil Company
VO-0082	Anchorage	61.708	149.069		67B26-S	Paleocene	Chickaloon	0.73	Shell Oil Company
VO-0083	Anchorage	61.708	149.069		67B26-C	Paleocene	Chickaloon	0.57	Shell Oil Company
VO-0084	Anchorage	61.708	149.102		UA 108	Paleocene	Chickaloon	0.65	Shell Oil Company
VO-0085	Anchorage	61.738	148.950		UA 142	Paleocene	Chickaloon	0.59	Shell Oil Company
VO-0086	Anchorage	61.738	148.950		UA 143	Paleocene	Chickaloon	0.59	Shell Oil Company
VO-0087	Anchorage	61.738	148.950		UA 144	Paleocene	Chickaloon	0.63	Shell Oil Company
VO-0088	Anchorage	61.738	148.950		UA 145	Paleocene	Chickaloon	0.62	Shell Oil Company
VO-0089	Anchorage	61.738	148.950		UA 146	Paleocene	Chickaloon	0.62	Shell Oil Company
VO-0090	Anchorage	61.738	148.950		UA 147	Paleocene	Chickaloon	0.61	Shell Oil Company
VO-0091	Anchorage	61.74778	148.53639		KM1-1	Tertiary	Chickaloon	2.85	Merritt, 1985a
VO-0092	Anchorage	61.74889	148.54028		KM2-1	Tertiary	Chickaloon	3.42	Merritt, 1985a
VO-0093	Anchorage	61.75361	148.90806		EC1-1	Tertiary	Chickaloon	0.55	Merritt, 1985a
VO-0094	Anchorage	61.75806	148.88194		MM1-4	Tertiary	Chickaloon	0.51	Merritt, 1985a
VO-0095	Anchorage	61.75806	148.88194		MM1-6	Tertiary	Chickaloon	0.57	Merritt, 1985a
VO-0096	Anchorage	61.76611	148.73111		YC3-1	Tertiary	Chickaloon	3.69	Merritt, 1985a
VO-0097	Anchorage	61.767	149.133		64F15-A	Paleocene	Arkose Ridge	2.29	Shell Oil Company
VO-0098	Anchorage	61.767	149.133		64F15-B	Paleocene	Arkose Ridge	1.91	Shell Oil Company
VO-0099	Anchorage	61.77972	148.41472		CC1-1	Tertiary	Chickaloon	0.67	Merritt, 1985a
VO-0100	Anchorage	61.77972	148.41472		CC1-2	Tertiary	Chickaloon	0.64	Merritt, 1985a
VO-0101	Anchorage	61.77972	148.41472		CC1-3	Tertiary	Chickaloon	0.76	Merritt, 1985a

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0102	Anchorage	61.77972	148.41472		CC1-4	Tertiary	Chickaloon	0.62	Merritt, 1985a
VO-0103	Anchorage	61.77972	148.41472		CC1-5	Tertiary	Chickaloon	2.40	Merritt, 1985a
VO-0104	Anchorage	61.77972	148.41472		CC1-6	Tertiary	Chickaloon	1.28	Merritt, 1985a
VO-0105	Anchorage	61.78333	148.70056		YC2-1	Tertiary	Chickaloon	0.82	Merritt, 1985a
VO-0106	Anchorage	61.78611	148.43056		CC3-2	Tertiary	Chickaloon	1.08	Merritt, 1985a
VO-0107	Anchorage	61.78833	148.43250		CC4-1	Tertiary	Chickaloon	1.33	Merritt, 1985a
VO-0108	Anchorage	61.78833	148.43250		CC4-2	Tertiary	Chickaloon	1.27	Merritt, 1985a
VO-0109	Anchorage	61.78861	148.68833		YC1-1	Tertiary	Chickaloon	0.92	Merritt, 1985a
VO-0110	Anchorage	61.80333	148.32278		MR1-1	Tertiary	Chickaloon	1.55	Merritt, 1985a
VO-0111	Anchorage	61.80556	147.97528		MR2-2	Tertiary	Chickaloon	1.87	Merritt, 1985a
VO-0112	Anchorage	61.80556	147.97528		MR2-4	Tertiary	Chickaloon	1.75	Merritt, 1985a
VO-0113	Anchorage	61.80556	147.97528		MR2-7	Tertiary	Chickaloon	1.90	Merritt, 1985a
VO-0114	Anchorage	61.80556	147.97528		MR2-10	Tertiary	Chickaloon	1.70	Merritt, 1985a
VO-0115	Anchorage	61.80556	147.97528		MR2-11	Tertiary	Chickaloon	1.80	Merritt, 1985a
VO-0116	Anchorage	61.80556	147.97528		MR2-12	Tertiary	Chickaloon	1.59	Merritt, 1985a
VO-0117	Anchorage	61.80556	147.97528		MR2-13	Tertiary	Chickaloon	1.55	Merritt, 1985a
VO-0118	Anchorage	61.80778	148.44556		CR1-1	Tertiary	Chickaloon	1.42	Merritt, 1985a
VO-0119	Anchorage	61.80778	148.44556		CR1-2	Tertiary	Chickaloon	1.22	Merritt, 1985a
VO-0120	Anchorage	61.80778	148.44556		CR1-3	Tertiary	Chickaloon	1.66	Merritt, 1985a
VO-0121	Anchorage	61.810	148.557		UA 107	Paleocene	Chickaloon	1.07	Shell Oil Company
VO-0122	Anchorage	61.81306	148.69889		RM1-1	Tertiary	Chickaloon	0.89	Merritt, 1985a
VO-0123	Anchorage	61.81306	148.69889		RM1-2	Tertiary	Chickaloon	0.60	Merritt, 1985a
VO-0124	Anchorage	61.81528	148.94639		WH3-2	Tertiary	Chickaloon	0.60	Merritt, 1985a
VO-0125	Anchorage	61.81528	148.94639		WH3-5	Tertiary	Chickaloon	0.58	Merritt, 1985a
VO-0126	Anchorage	61.81528	148.94639		WH3-8	Tertiary	Chickaloon	0.47	Merritt, 1985a
VO-0127	Anchorage	61.81694	148.58806		KR1-1	Tertiary	Chickaloon	1.09	Merritt, 1985a
VO-0128	Anchorage	61.81694	148.58806		KR1-2	Tertiary	Chickaloon	1.27	Merritt, 1985a
VO-0129	Anchorage	61.81694	148.58806		KR1-3	Tertiary	Chickaloon	1.47	Merritt, 1985a
VO-0130	Anchorage	61.82278	148.14056		PC6-2	Tertiary	Chickaloon	2.08	Merritt, 1985a
VO-0131	Anchorage	61.82278	148.14056		PC6-5	Tertiary	Chickaloon	1.93	Merritt, 1985a
VO-0132	Anchorage	61.82278	148.42778		CR2-1	Tertiary	Chickaloon	1.09	Merritt, 1985a
VO-0133	Anchorage	61.82278	148.42778		CR2-2	Tertiary	Chickaloon	1.14	Merritt, 1985a
VO-0134	Anchorage	61.82278	148.42778		CR2-3	Tertiary	Chickaloon	1.12	Merritt, 1985a
VO-0135	Anchorage	61.82500	148.54694		CM2-1	Tertiary	Chickaloon	2.94	Merritt, 1985a
VO-0136	Anchorage	61.82500	148.54694		CM2-2	Tertiary	Chickaloon	2.09	Merritt, 1985a
VO-0137	Anchorage	61.82500	148.54694		CM2-3	Tertiary	Chickaloon	1.08	Merritt, 1985a
VO-0138	Anchorage	61.82889	148.53750		CM1-5	Tertiary	Chickaloon	2.07	Merritt, 1985a
VO-0139	Anchorage	61.83750	148.39222		BC1-1	Tertiary	Chickaloon	0.99	Merritt, 1985a
VO-0140	Anchorage	61.83750	148.39222		BC1-2	Tertiary	Chickaloon	0.89	Merritt, 1985a
VO-0141	Anchorage	61.83778	148.01306		MC2-1	Tertiary	Chickaloon	0.84	Merritt, 1985a
VO-0142	Anchorage	61.83778	148.01306		MC2-2	Tertiary	Chickaloon	0.85	Merritt, 1985a
VO-0143	Anchorage	61.83917	147.99083		PG4-1	Tertiary	Chickaloon	2.56	Merritt, 1985a
VO-0144	Anchorage	61.83917	147.99083		PG4-2	Tertiary	Chickaloon	2.91	Merritt, 1985a
VO-0145	Anchorage	61.83917	147.99083		PG4-3	Tertiary	Chickaloon	3.29	Merritt, 1985a
VO-0146	Anchorage	61.83917	148.00278		PG3-1	Tertiary	Chickaloon	0.81	Merritt, 1985a
VO-0147	Anchorage	61.84083	148.01306		MC1-2	Tertiary	Chickaloon	0.65	Merritt, 1985a
VO-0148	Anchorage	61.84083	148.01306		MC1-3	Tertiary	Chickaloon	0.79	Merritt, 1985a
VO-0149	Anchorage	61.84083	148.01306		MC1-4	Tertiary	Chickaloon	0.73	Merritt, 1985a
VO-0150	Anchorage	61.84083	148.01306		MC1-5	Tertiary	Chickaloon	0.74	Merritt, 1985a
VO-0151	Anchorage	61.84083	148.01306		MC1-6	Tertiary	Chickaloon	0.78	Merritt, 1985a
VO-0152	Anchorage	61.84083	148.51306		MC1-1	Tertiary	Chickaloon	0.64	Merritt, 1985a
VO-0153	Anchorage	61.84139	147.99083		PG2-1	Tertiary	Chickaloon	0.78	Merritt, 1985a
VO-0154	Anchorage	61.84139	147.99083		PG2-2	Tertiary	Chickaloon	0.84	Merritt, 1985a

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0155	Anchorage	61.84167	148.00194		PG1-3	Tertiary	Chickaloon	0.76	Merritt, 1985a
VO-0156	Anchorage	61.84167	148.00389		PG1-1	Tertiary	Chickaloon	0.74	Merritt, 1985a
VO-0157	Anchorage	61.84167	148.00389		PG1-2	Tertiary	Chickaloon	0.68	Merritt, 1985a
VO-0158	Anchorage	61.84611	148.09472		PC5-1	Tertiary	Chickaloon	3.02	Merritt, 1985a
VO-0159	Anchorage	61.84611	148.09472		PC5-2	Tertiary	Chickaloon	3.52	Merritt, 1985a
VO-0160	Anchorage	61.84722	148.10056		PC4-1	Tertiary	Chickaloon	4.08	Merritt, 1985a
VO-0161	Anchorage	61.84722	148.10500		PC3-1	Tertiary	Chickaloon	4.12	Merritt, 1985a
VO-0162	Anchorage	61.84722	148.10500		PC3-2	Tertiary	Chickaloon	3.89	Merritt, 1985a
VO-0163	Anchorage	61.84722	148.10500		PC3-3	Tertiary	Chickaloon	3.64	Merritt, 1985a
VO-0164	Anchorage	61.84972	148.10333		PC2-1	Tertiary	Chickaloon	3.74	Merritt, 1985a
VO-0165	Anchorage	61.85111	148.10222		PC1-1	Tertiary	Chickaloon	4.07	Merritt, 1985a
VO-0166	Anchorage	61.85111	148.10222		PC1-2	Tertiary	Chickaloon	5.34	Merritt, 1985a
VO-0167	Anchorage	61.85111	148.10222		PC1-3	Tertiary	Chickaloon	4.85	Merritt, 1985a
VO-0168	Anchorage	61.855	148.438		64F11+87	Paleocene	Chickaloon	0.82	Shell Oil Company
VO-0169	Anchorage	61.855	148.438		64F14	Paleocene	Wishbone	1.48	Shell Oil Company
VO-0170	Arctic	68.23055	145.91666	1463	78ABE 24	Devonian		2.90	PGS - Record # 50011950190000010
VO-0171	Arctic	68.25888	144.12583	1128	78ARR 15B	Devonian-Mississippian	Kanayut Cong	4.35	PGS - Record # 50011950050000010
VO-0172	Arctic	68.28611	146.80416	1585	78ABE 23	Devonian		2.10	PGS - Record # 50011950180000010
VO-0173	Arctic	68.31666	146.10000	1646	79ABC 234			2.23	PGS - Record # 50011950320000010
VO-0174	Arctic	68.34750	145.66666	792	78ABE 4	Mississippian	Kayak Sh	1.89	PGS - Record # 50011950150000010
VO-0175	Arctic	68.40416	144.53333	1219	78ARR 12K	Mississippian		1.85	PGS - Record # 50011950040000010
VO-0176	Arctic	68.40555	145.40833	1189	78ABE 32B	Devonian-Mississippian	Kanayut Cong	4.85	PGS - Record # 50011950210000020
VO-0177	Arctic	68.42500	145.04305	1219	78ABE 33C	Devonian	Hunt Fork Sh	2.97	PGS - Record # 50011950230000010
VO-0178	Arctic	68.45305	146.28138	1402	75ABE 92A	Pennsylvanian	Sadlerochit Gp	0.83	PGS - Record # 50011950010000020
VO-0179	Arctic	68.47361	144.40833	975	78ARR 34	Paleozoic		4.49	PGS - Record # 50011950130000020
VO-0180	Arctic	68.48666	145.49027	1158	78ARR 17	Mississippian	Kayak Sh	4.53	PGS - Record # 50011950060000010
VO-0181	Arctic	68.50416	144.42361	1433	78ARR 29E	Devonian		1.87	PGS - Record # 50011950110000010
VO-0182	Arctic	68.50416	144.42361	1433	78ARR 29C	Devonian		3.24	PGS - Record # 50011950110000020
VO-0183	Arctic	68.50555	145.89027	1280	78ABE 54A	Mississippian	Kayak Sh	4.79	PGS - Record # 50011950300000010
VO-0184	Arctic	68.52222	145.94500	1433	78ABE 53B	Mississippian-Pennsylvanian	Lisburne Gp	3.38	PGS - Record # 50011950290000010
VO-1656	Arctic	68.53333	145.06666	701	79MD210B	Mississippian	Kuna Fm	1.17	PGS - Record # 50111950160000010
VO-0185	Arctic	68.58749	146.01666	1433	78ABE 52	Permian-Triassic	Sadlerochit Gp	2.34	PGS - Record # 50011950280000010
VO-0186	Arctic	68.67777	145.88222	1433	78ABE 46A	Devonian-Mississippian	Kanayut Cong	2.01	PGS - Record # 50011950250000010
VO-0187	Arctic	68.76250	145.92083	1463	78ABE 50A	Cretaceous	Kongakut Clay Sh	3.75	PGS - Record # 50011950270000010
VO-0188	Arctic	68.80277	146.53472	869	82ABE600B	M. Triassic	Shublik Fm	4.05	PGS - Record # 50011950330000010
VO-0189	Arctic	68.96666	145.58305	701	78ABE 47P	Mississippian	Kayak Sh	0.99	PGS - Record # 50011950260000010
VO-0190	Arctic	68.96666	145.58305	701	78ABE 47C	Devonian-Mississippian	Kanayut Cong	2.96	PGS - Record # 50011950260000020
VO-0191	Arctic	68.99166	144.74861	1006	78ABE 48F	Mississippian	Kayak Sh	5.00	PGS - Record # 50011950120000010
VO-0192	Arctic	68.99166	144.74861	1006	78ABE 48A	Devonian-Mississippian	Kekiktuk Cong	4.87	PGS - Record # 50011950120000020
VO-0193	Baird Mountains	67.05416	159.83333	30	83ASK265B			0.57	PGS - Record # 50021950030000010
VO-0194	Beaver	66.703	149.733		74F-254	Cretaceous		0.91	Shell Oil Company
VO-0195	Bendeleben	65.487	164.262		78D-1	Tertiary		0.29	Shell Oil Company
VO-0196	Bendeleben	65.893	162.398		78D-11	Tertiary		0.29	Shell Oil Company
VO-0197	Bendeleben	65.905	162.433		81F9A	Tertiary or Cretaceous		0.36	Shell Oil Company
VO-0198	Bendeleben	65.905	162.433		81F9B	Tertiary or Cretaceous		0.33	Shell Oil Company
VO-0199	Bering Glacier	60.000	143.865		68A-32	Oligocene-L. Miocene	Poul Creek	0.60	Shell Oil Company
VO-0200	Bering Glacier	60.002	143.962		68A-30	Oligocene-L. Miocene	Poul Creek	0.51	Shell Oil Company
VO-0201	Bering Glacier	60.023	141.407		68A-7	Pliocene	Yakataga	0.64	Shell Oil Company
VO-0202	Bering Glacier	60.023	141.750		74L-37+0	Oligocene-Miocene	Poul Creek	0.33	Shell Oil Company
VO-0203	Bering Glacier	60.027	142.032		68A-16	Pliocene	Yakataga	0.66	Shell Oil Company
VO-0204	Bering Glacier	60.027	142.032		68A-18	Pliocene	Yakataga	0.85	Shell Oil Company
VO-0205	Bering Glacier	60.035	141.380		71E-3-5	Pleistocene-Miocene	Yakataga	0.52	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0206	Bering Glacier	60.035	141.380		71E-3-7	Pleistocene-Miocene	Yakataga	0.73	Shell Oil Company
VO-0207	Bering Glacier	60.035	141.380		71E-3-2	Pleistocene-Miocene	Yakataga	0.45	Shell Oil Company
VO-0208	Bering Glacier	60.035	141.380		71E-3-3	Pleistocene-Miocene	Yakataga	0.38	Shell Oil Company
VO-0209	Bering Glacier	60.035	141.380		71E-3-0	Pleistocene-Miocene	Yakataga	0.39	Shell Oil Company
VO-0210	Bering Glacier	60.037	142.090		72R-14+0	Oligocene-Miocene	Poul Creek	0.52	Shell Oil Company
VO-0211	Bering Glacier	60.037	142.090		72R-14+80	Oligocene-Miocene	Poul Creek	0.49	Shell Oil Company
VO-0212	Bering Glacier	60.037	142.090		72R-14+350	Oligocene-Miocene	Poul Creek	0.43	Shell Oil Company
VO-0213	Bering Glacier	60.037	142.090		72R-14+470	Oligocene-Miocene	Poul Creek	0.52	Shell Oil Company
VO-0214	Bering Glacier	60.038	142.007		0040227			0.46	Chevron
VO-0215	Bering Glacier	60.038	142.033		0040228	Oligocene		0.46	Chevron
VO-0216	Bering Glacier	60.040	142.033		71B1+1100	Pliocene	Yakaiaca	0.57	Shell Oil Company
VO-0217	Bering Glacier	60.040	142.033		71B1+200	Pliocene	Yakaiaca	0.55	Shell Oil Company
VO-0218	Bering Glacier	60.040	143.808		71F-55B	Miocene-Oligocene	Poul Creek	0.65	Shell Oil Company
VO-0219	Bering Glacier	60.040	143.808		71F-55C	Miocene-Oligocene	Poul Creek	0.54	Shell Oil Company
VO-0220	Bering Glacier	60.040	143.808		71F-55A	Miocene-Oligocene	Poul Creek	0.65	Shell Oil Company
VO-0221	Bering Glacier	60.053	141.813		71F-37A	Miocene	Yakataga	0.46	Shell Oil Company
VO-0222	Bering Glacier	60.053	141.813		68A-8	Miocene	Yakataga	0.53	Shell Oil Company
VO-0223	Bering Glacier	60.053	141.813		68A-10	Miocene	Yakataga	0.49	Shell Oil Company
VO-0224	Bering Glacier	60.053	141.813		68A-11	Oligocene	Poul Creek	0.54	Shell Oil Company
VO-0225	Bering Glacier	60.053	142.007		71E12+2220	Oligocene	Poul Creek	0.52	Shell Oil Company
VO-0226	Bering Glacier	60.053	142.007		71E12+3790	Oligocene	Poul Creek	0.44	Shell Oil Company
VO-0227	Bering Glacier	60.053	142.007		71E12+5208	Oligocene	Poul Creek	0.48	Shell Oil Company
VO-0228	Bering Glacier	60.053	142.033		71F-63D	Pliocene-Miocene	Yakataga	0.53	Shell Oil Company
VO-0229	Bering Glacier	60.053	142.033		71F-63C	Miocene	Poul Creek	0.44	Shell Oil Company
VO-0230	Bering Glacier	60.053	142.033		71F-63B	Miocene	Poul Creek	0.51	Shell Oil Company
VO-0231	Bering Glacier	60.053	142.033		71F-63A	Miocene	Poul Creek	0.46	Shell Oil Company
VO-0232	Bering Glacier	60.053	143.808		74L29+130	Miocene-Oligocene	Poul Creek	0.38	Shell Oil Company
VO-0233	Bering Glacier	60.053	143.808		74L29+350	Miocene-Oligocene	Poul Creek	0.40	Shell Oil Company
VO-0234	Bering Glacier	60.053	143.808		68A-35	Pliocene-Miocene	Yakataga?	0.52	Shell Oil Company
VO-0235	Bering Glacier	60.055	142.063		72R-14+0	Miocene	Poul Creek	0.52	Shell Oil Company
VO-0236	Bering Glacier	60.055	142.063		72R-14+80	Miocene	Poul Creek	0.49	Shell Oil Company
VO-0237	Bering Glacier	60.055	142.063		72R-14+350	Miocene	Poul Creek	0.43	Shell Oil Company
VO-0238	Bering Glacier	60.055	142.063		72R-14+470	Miocene	Poul Creek	0.52	Shell Oil Company
VO-0239	Bering Glacier	60.055	143.787		63APR-41	Pliocene-Pleistocene	Yakataga	0.55	Shell Oil Company
VO-0240	Bering Glacier	60.055	143.787		63APR-42	Pliocene-Pleistocene	Yakataga	0.68	Shell Oil Company
VO-0241	Bering Glacier	60.055	143.787		63APR-44	Pliocene-Pleistocene	Yakataga	0.57	Shell Oil Company
VO-0242	Bering Glacier	60.055	143.787		63APR-48	Pliocene-Pleistocene	Yakataga	0.55	Shell Oil Company
VO-0243	Bering Glacier	60.055	143.787		63APR-52	Pliocene-Pleistocene	Yakataga	0.41	Shell Oil Company
VO-0244	Bering Glacier	60.055	143.787		63APR-54	Pliocene-Pleistocene	Yakataga	0.43	Shell Oil Company
VO-0245	Bering Glacier	60.055	143.787		63APR-55	Pliocene-Pleistocene	Yakataga	0.47	Shell Oil Company
VO-0246	Bering Glacier	60.055	143.787		63APR-60	Pliocene-Pleistocene	Yakataga	0.47	Shell Oil Company
VO-0247	Bering Glacier	60.055	143.787		63APR-64	Pliocene-Pleistocene	Yakataga	0.50	Shell Oil Company
VO-0248	Bering Glacier	60.055	143.787		63APR-65	Pliocene-Pleistocene	Yakataga	0.43	Shell Oil Company
VO-0249	Bering Glacier	60.055	143.787		63APR-66	Pliocene-Pleistocene	Yakataga	0.48	Shell Oil Company
VO-0250	Bering Glacier	60.055	143.787		63APR-69	Miocene	Poul Creek	0.43	Shell Oil Company
VO-0251	Bering Glacier	60.067	142.435		72C-2+340	Miocene-Oligocene	Poul Creek	0.54	Shell Oil Company
VO-0252	Bering Glacier	60.067	142.435		68A-13	U. Miocene-Pliocene	Yakataga	0.61	Shell Oil Company
VO-0253	Bering Glacier	60.067	142.435		68A-14	Oligocene	Poul Creek	0.46	Shell Oil Company
VO-0254	Bering Glacier	60.067	142.435		68A-39	Oligocene	Poul Creek	0.56	Shell Oil Company
VO-0255	Bering Glacier	60.067	142.435		71E2-1+120		Poul Creek	0.64	Shell Oil Company
VO-0256	Bering Glacier	60.067	142.435		71E2-4+290		Poul Creek	0.61	Shell Oil Company
VO-0257	Bering Glacier	60.067	142.435		71E2-7+505		Poul Creek	0.94	Shell Oil Company
VO-0258	Bering Glacier	60.067	142.435		71E2-12+135		Yakataga	0.66	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0259	Bering Glacier	60.067	142.435		72C-2+340	Oligocene-Miocene	Poul Creek	0.54	Shell Oil Company
VO-0260	Bering Glacier	60.080	142.263		71F-35E	Pliocene-Pleistocene	Yakataga	0.51	Shell Oil Company
VO-0261	Bering Glacier	60.080	142.263		71F-35B	Pliocene-Pleistocene	Yakataga	0.53	Shell Oil Company
VO-0262	Bering Glacier	60.080	142.472		71E2+5950B		Yakataga	0.54	Shell Oil Company
VO-0263	Bering Glacier	60.080	142.472		71E2+5650		Yakataga	0.61	Shell Oil Company
VO-0264	Bering Glacier	60.080	142.472		71E2+4400		Yakataga	0.66	Shell Oil Company
VO-0265	Bering Glacier	60.080	142.472		71E2+3900A		Yakataga	0.52	Shell Oil Company
VO-0266	Bering Glacier	60.080	142.472		71E2+1665		Yakataga	0.53	Shell Oil Company
VO-0267	Bering Glacier	60.083	143.750		62F-336	Miocene-Oligocene	Poul Creek	0.44	Shell Oil Company
VO-0268	Bering Glacier	60.095	141.487		71F-52-BCD			0.44	Shell Oil Company
VO-0269	Bering Glacier	60.095	141.487		71F-49B	Miocene	Yakataga	0.57	Shell Oil Company
VO-0270	Bering Glacier	60.095	141.487		71F-50D	Miocene	Yakataga	0.55	Shell Oil Company
VO-0271	Bering Glacier	60.095	141.487		71F-50B	Miocene	Yakataga	0.58	Shell Oil Company
VO-0272	Bering Glacier	60.095	141.487		71F-51B	Miocene	Yakataga	0.56	Shell Oil Company
VO-0273	Bering Glacier	60.095	141.487		71F-51D	Miocene	Yakataga	0.63	Shell Oil Company
VO-0274	Bering Glacier	60.095	141.487		71F-52	Miocene	Yakataga	0.42	Shell Oil Company
VO-0275	Bering Glacier	60.095	141.487		71F-52C	Miocene	Yakataga	0.44	Shell Oil Company
VO-0276	Bering Glacier	60.095	141.487		71F-52D	Miocene	Yakataga	0.48	Shell Oil Company
VO-0277	Bering Glacier	60.108	141.083		71F-45C	Miocene-Pleistocene	Yakataga	1.04	Shell Oil Company
VO-0278	Bering Glacier	60.108	141.083		71F-45M	Miocene-Pleistocene	Yakataga	0.56	Shell Oil Company
VO-0279	Bering Glacier	60.110	142.005		72R-A8+280	Pliocene-Pleistocene	Yakataga	0.45	Shell Oil Company
VO-0280	Bering Glacier	60.110	142.005		72R-B8+1250	Pliocene-Pleistocene	Yakataga	0.36	Shell Oil Company
VO-0281	Bering Glacier	60.125	142.035		72R9+44	Oligocene-Miocene	Poul Creek	0.39	Shell Oil Company
VO-0282	Bering Glacier	60.125	142.035		72R-9+2770	Pliocene-Pleistocene	Yakataga	0.45	Shell Oil Company
VO-0283	Bering Glacier	60.125	142.035		72R-9+1400	Pliocene-Pleistocene	Yakataga	0.40	Shell Oil Company
VO-0284	Bering Glacier	60.125	142.035		72R-9+845	Pliocene-Pleistocene	Yakataga	0.45	Shell Oil Company
VO-0285	Bering Glacier	60.125	142.035		72R-9+44	Oligocene-Miocene	Poul Creek	0.48	Shell Oil Company
VO-0286	Bering Glacier	60.125	142.035		73A-1+1972	Pliocene	Yakataga	0.35	Shell Oil Company
VO-0287	Bering Glacier	60.125	142.035		73A-1+1740	Pliocene	Yakataga	0.44	Shell Oil Company
VO-0288	Bering Glacier	60.125	142.035		73A-1+1463	Pliocene	Yakataga	0.40	Shell Oil Company
VO-0289	Bering Glacier	60.125	142.035		73A-1+1105	Miocene	Poul Creek	0.48	Shell Oil Company
VO-0290	Bering Glacier	60.125	142.035		73A-1+900	Miocene	Poul Creek	0.56	Shell Oil Company
VO-0291	Bering Glacier	60.125	142.035		73A-1+662	Miocene	Poul Creek	0.49	Shell Oil Company
VO-0292	Bering Glacier	60.125	142.035		73A-1+340	Miocene	Poul Creek	0.53	Shell Oil Company
VO-0293	Bering Glacier	60.125	142.035		73A-1+38	Miocene	Poul Creek	0.53	Shell Oil Company
VO-0294	Bering Glacier	60.125	142.035		73A-1+30	Miocene	Poul Creek	0.57	Shell Oil Company
VO-0295	Bering Glacier	60.138	141.193		71F-101E	Eocene-Paleocene	Kulthieth	1.00	Shell Oil Company
VO-0296	Bering Glacier	60.138	141.193		71F-101F	Eocene-Paleocene	Kulthieth	0.88	Shell Oil Company
VO-0297	Bering Glacier	60.138	141.437		71F-42C	Pleistocene-Miocene	Yakataga	0.59	Shell Oil Company
VO-0298	Bering Glacier	60.138	141.437		71F-42F	Pleistocene-Miocene	Yakataga	0.68	Shell Oil Company
VO-0299	Bering Glacier	60.138	141.437		71F-42G	Pleistocene-Miocene	Yakataga	0.62	Shell Oil Company
VO-0300	Bering Glacier	60.138	141.437		71F-48A	Pleistocene-Miocene	Yakataga	0.61	Shell Oil Company
VO-0301	Bering Glacier	60.138	141.437		71F-48B	Pleistocene-Miocene	Yakataga	0.62	Shell Oil Company
VO-0302	Bering Glacier	60.152	142.382		77S-PC-101	Eocene	Kulthieth	0.61	Shell Oil Company
VO-0303	Bering Glacier	60.152	142.382		72D-32	Eocene	Kulthieth	0.66	Shell Oil Company
VO-0304	Bering Glacier	60.155	142.667		68A-20	L. Miocene	Poul Creek	0.57	Shell Oil Company
VO-0305	Bering Glacier	60.155	142.667		68A-21	L. Miocene	Poul Creek	0.51	Shell Oil Company
VO-0306	Bering Glacier	60.155	142.667		68A-22	L. Miocene	Poul Creek	0.55	Shell Oil Company
VO-0307	Bering Glacier	60.165	142.663		62H-1320+48	Pliocene	Yakataga	0.47	Shell Oil Company
VO-0308	Bering Glacier	60.165	142.663		62H-1320+1	Pliocene	Yakataga	0.47	Shell Oil Company
VO-0309	Bering Glacier	60.165	142.663		62H-1304+40	Pliocene	Yakataga	0.50	Shell Oil Company
VO-0310	Bering Glacier	60.165	142.663		62H-1304+60	Pliocene	Yakataga	0.38	Shell Oil Company
VO-0311	Bering Glacier	60.165	142.663		62H-1304+90	Pliocene	Yakataga	0.42	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0312	Bering Glacier	60.165	142.663		62H-1312+20	Pliocene	Yakataga	0.40	Shell Oil Company
VO-0313	Bering Glacier	60.165	142.663		62H-1312+80	Pliocene	Yakataga	0.51	Shell Oil Company
VO-0314	Bering Glacier	60.165	142.663		62H-1312+100	Pliocene	Yakataga	0.49	Shell Oil Company
VO-0315	Bering Glacier	60.165	142.663		62H-1315+250	Pliocene	Yakataga	0.40	Shell Oil Company
VO-0316	Bering Glacier	60.165	142.663		62H-1315+355	Pliocene	Yakataga	0.47	Shell Oil Company
VO-0317	Bering Glacier	60.165	142.663		62H-1315+396	Pliocene	Yakataga	0.49	Shell Oil Company
VO-0318	Bering Glacier	60.165	142.663		62H-1317+105	Pliocene	Yakataga	0.51	Shell Oil Company
VO-0319	Bering Glacier	60.165	142.663		62H-1317+145	Pliocene	Yakataga	0.50	Shell Oil Company
VO-0320	Bering Glacier	60.167	142.437		71E-11+500-600B		Poul Creek	0.90	Shell Oil Company
VO-0321	Bering Glacier	60.167	142.437		71E-11+500-600D		Poul Creek	0.70	Shell Oil Company
VO-0322	Bering Glacier	60.167	142.467		71F-108E	Miocene	Poul Creek	0.62	Shell Oil Company
VO-0323	Bering Glacier	60.167	142.467		71F-108D	Miocene	Poul Creek	2.99	Shell Oil Company
VO-0324	Bering Glacier	60.167	142.467		71F-108B	Miocene	Poul Creek	0.54	Shell Oil Company
VO-0325	Bering Glacier	60.168	141.027		71F-47C	Eocene?	Kulthieth	0.78	Shell Oil Company
VO-0326	Bering Glacier	60.168	142.263		62J-329	L. Miocene-Oligocene	Poul Creek	0.55	Shell Oil Company
VO-0327	Bering Glacier	60.168	142.263		62J-329	L. Miocene-Oligocene	Poul Creek	0.38	Shell Oil Company
VO-0328	Bering Glacier	60.168	142.292		71F-71	Miocene-Oligocene	Poul Creek	0.68	Shell Oil Company
VO-0329	Bering Glacier	60.170	141.133		74L56	Eocene-Paleocene	Kulthieth	0.83	Shell Oil Company
VO-0330	Bering Glacier	60.172	141.133		71F-101F	Eocene	Kulthieth	0.68	Shell Oil Company
VO-0331	Bering Glacier	60.172	141.133		71F-101E	Eocene	Kulthieth	0.92	Shell Oil Company
VO-0332	Bering Glacier	60.180	142.208		71F-32B	Miocene-Oligocene	Poul Creek	0.67	Shell Oil Company
VO-0333	Bering Glacier	60.180	142.208		71F-32C	Miocene-Oligocene	Poul Creek	0.53	Shell Oil Company
VO-0334	Bering Glacier	60.180	142.208		71F-32D	Miocene-Oligocene	Poul Creek	0.52	Shell Oil Company
VO-0335	Bering Glacier	60.180	142.467		71F-107A	Miocene	Poul Creek	0.59	Shell Oil Company
VO-0336	Bering Glacier	60.182	142.065		72D31+650	Pliocene?	Yakataga	0.66	Shell Oil Company
VO-0337	Bering Glacier	60.183	141.103		71F-103A	Eocene-Paleocene	Kulthieth	0.89	Shell Oil Company
VO-0338	Bering Glacier	60.183	141.103		71F-103B	Eocene-Paleocene	Hayden Peak	0.86	Shell Oil Company
VO-0339	Bering Glacier	60.183	141.103		71F-103C	Eocene-Paleocene	Hayden Peak	0.93	Shell Oil Company
VO-0340	Bering Glacier	60.193	141.110		71F-103D	Eocene	Kulthieth	0.82	Shell Oil Company
VO-0341	Bering Glacier	60.193	141.110		71F-103C	Eocene	Kulthieth	0.82	Shell Oil Company
VO-0342	Bering Glacier	60.197	141.167		71F-104C	Eocene-Paleocene	Kulthieth	0.79	Shell Oil Company
VO-0343	Bering Glacier	60.197	141.167		71F-104C	Eocene	Kulthieth	0.65	Shell Oil Company
VO-0344	Bering Glacier	60.197	141.167		71F-104B	Eocene	Kulthieth	0.87	Shell Oil Company
VO-0345	Bering Glacier	60.197	141.167		71F-104A	Eocene	Kulthieth	0.72	Shell Oil Company
VO-0346	Bering Glacier	60.197	141.197		71F-111A	Eocene-Paleocene	Kulthieth	1.52	Shell Oil Company
VO-0347	Bering Glacier	60.197	142.473		72M-6+1320	Oligocene-L. Miocene	Poul Creek	0.52	Shell Oil Company
VO-0348	Bering Glacier	60.197	142.473		72M-6+986	Oligocene-L. Miocene	Poul Creek	0.51	Shell Oil Company
VO-0349	Bering Glacier	60.197	142.473		72M-6+617	Oligocene-L. Miocene	Poul Creek	0.46	Shell Oil Company
VO-0350	Bering Glacier	60.197	142.473		72M-6+339	Oligocene-L. Miocene	Poul Creek	0.47	Shell Oil Company
VO-0351	Bering Glacier	60.197	142.473		72M-6+100	Oligocene-L. Miocene	Poul Creek	0.39	Shell Oil Company
VO-0352	Bering Glacier	60.208	141.250		69APR64C4	Eocene-Paleocene	Kulthieth	0.99	Shell Oil Company
VO-0353	Bering Glacier	60.208	141.250		71F-99A	Eocene-Paleocene		1.00	Shell Oil Company
VO-0354	Bering Glacier	60.208	141.250		71F-99C	Eocene-Paleocene		1.12	Shell Oil Company
VO-0355	Bering Glacier	60.208	141.250		71F-99E	Eocene-Paleocene		1.06	Shell Oil Company
VO-0356	Bering Glacier	60.208	141.250		71F-99F	Eocene-Paleocene		0.96	Shell Oil Company
VO-0357	Bering Glacier	60.208	141.250		71F-99G	Eocene-Paleocene		1.08	Shell Oil Company
VO-0358	Bering Glacier	60.208	141.250		71F-99H	Eocene-Paleocene		1.11	Shell Oil Company
VO-0359	Bering Glacier	60.208	141.250		71F-99I	Eocene-Paleocene		1.05	Shell Oil Company
VO-0360	Bering Glacier	60.208	141.250		71F-99J	Eocene-Paleocene		1.02	Shell Oil Company
VO-0361	Bering Glacier	60.208	142.298		71F-60A	Miocene-Oligocene	Poul Creek	0.65	Shell Oil Company
VO-0362	Bering Glacier	60.213	142.785		77S-HL-410	Eocene	Kulthieth	1.39	Shell Oil Company
VO-0363	Bering Glacier	60.223	141.168		71F-100D	Eocene-Paleocene	Kulthieth	1.99	Shell Oil Company
VO-0364	Bering Glacier	60.223	141.168		71F-100F	Eocene-Paleocene	Hayden Peak	2.29	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0365	Bering Glacier	60.223	141.168		74L-56 (1976)	Oligocene-Eocene	Kulthieth	0.83	Shell Oil Company
VO-0366	Bering Glacier	60.225	142.442		71F-61C	Miocene	Poul Creek	0.54	Shell Oil Company
VO-0367	Bering Glacier	60.225	142.442		71F-61B	Miocene	Poul Creek	0.53	Shell Oil Company
VO-0368	Bering Glacier	60.225	142.442		71F-61A	Miocene	Poul Creek	0.53	Shell Oil Company
VO-0369	Bering Glacier	60.225	143.920		0040225	Oligocene	Katalla	0.54	Chevron
VO-0370	Bering Glacier	60.227	143.897		72D-151-A	Miocene-Oligocene	Poul Creek	0.40	Shell Oil Company
VO-0371	Bering Glacier	60.227	143.897		72D-152	Miocene-Oligocene	Poul Creek	0.52	Shell Oil Company
VO-0372	Bering Glacier	60.227	143.897		72D-153-B	Miocene-Oligocene	Poul Creek	0.61	Shell Oil Company
VO-0373	Bering Glacier	60.227	143.897		72D-154	Miocene-Oligocene	Poul Creek	0.51	Shell Oil Company
VO-0374	Bering Glacier	60.233	141.105		71F-105A	Eocene-Paleocene		2.66	Shell Oil Company
VO-0375	Bering Glacier	60.233	141.105		71F-100A	Eocene?	Kulthieth	2.03	Shell Oil Company
VO-0376	Bering Glacier	60.233	141.105		71F-100D	Eocene?	Kulthieth	2.39	Shell Oil Company
VO-0377	Bering Glacier	60.233	141.105		71F-100E	Eocene?	Kulthieth	1.91	Shell Oil Company
VO-0378	Bering Glacier	60.233	141.105		71F-100F	Eocene?	Kulthieth	2.20	Shell Oil Company
VO-0379	Bering Glacier	60.237	141.025		74L-58	Eocene	Kulthieth?	2.53	Shell Oil Company
VO-0380	Bering Glacier	60.237	142.813		77S-KR-603	Eocene	Kulthieth	1.21	Shell Oil Company
VO-0381	Bering Glacier	60.237	142.813		77S-KR-608	Eocene	Kulthieth	1.00	Shell Oil Company
VO-0382	Bering Glacier	60.237	142.813		77S-KR-610	Eocene	Kulthieth	1.13	Shell Oil Company
VO-0383	Bering Glacier	60.238	142.993		77S-OC-502	Eocene	Kushtaka-Kulthieth	0.58	Shell Oil Company
VO-0384	Bering Glacier	60.240	142.647		77S-K-703	Eocene	Kulthieth	1.25	Shell Oil Company
VO-0385	Bering Glacier	60.242	142.100		72M4+12	Oligocene-Eocene	Kulthieth	0.62	Shell Oil Company
VO-0386	Bering Glacier	60.242	142.100		72M4+154	Oligocene-Eocene	Kulthieth	0.62	Shell Oil Company
VO-0387	Bering Glacier	60.242	142.100		72D-29+930	Eocene	Kulthieth	0.56	Shell Oil Company
VO-0388	Bering Glacier	60.242	142.100		72D-29+472	Eocene	Kulthieth	0.70	Shell Oil Company
VO-0389	Bering Glacier	60.242	142.100		72D-29+700	Eocene	Kulthieth	0.64	Shell Oil Company
VO-0390	Bering Glacier	60.242	142.100		72D-29+730	Eocene	Kulthieth	0.61	Shell Oil Company
VO-0391	Bering Glacier	60.248	142.110		72M-4A+2255	Oligocene	Poul Creek	0.49	Shell Oil Company
VO-0392	Bering Glacier	60.248	142.110		72M-4A+1815	Oligocene	Poul Creek	0.63	Shell Oil Company
VO-0393	Bering Glacier	60.248	142.110		72M-4A+1651	Oligocene	Poul Creek	0.65	Shell Oil Company
VO-0394	Bering Glacier	60.248	142.110		72M-4A+1422	Oligocene	Poul Creek	0.60	Shell Oil Company
VO-0395	Bering Glacier	60.248	142.110		72M-4A+985	Oligocene	Poul Creek	0.62	Shell Oil Company
VO-0396	Bering Glacier	60.248	142.110		72M-4A+408	Oligocene	Poul Creek	0.60	Shell Oil Company
VO-0397	Bering Glacier	60.248	142.110		72M-4A+0	Oligocene	Poul Creek	0.60	Shell Oil Company
VO-0398	Bering Glacier	60.255	142.615		72D-108	Eocene	Kulthieth	1.42	Shell Oil Company
VO-0399	Bering Glacier	60.255	142.672		77S-BP-801	Eocene	Kulthieth	1.08	Shell Oil Company
VO-0400	Bering Glacier	60.255	142.757		77S-BP-810	Eocene	Kulthieth	1.40	Shell Oil Company
VO-0401	Bering Glacier	60.255	142.757		77S-BP-814	Eocene	Kulthieth	1.23	Shell Oil Company
VO-0402	Bering Glacier	60.255	143.103		73B-66 (1974)	L. Oligocene-Eocene	Kulthieth	0.70	Shell Oil Company
VO-0403	Bering Glacier	60.255	143.103		73B-66 (Acid)	L. Oligocene-Eocene	Kulthieth	0.70	Shell Oil Company
VO-0404	Bering Glacier	60.255	143.103		73B-66 (Rock)	L. Oligocene-Eocene	Kulthieth	0.72	Shell Oil Company
VO-0405	Bering Glacier	60.260	143.073		62H-1702+2	Eocene	Kulthieth	0.71	Shell Oil Company
VO-0406	Bering Glacier	60.260	143.073		62H-1702+20	Eocene	Kulthieth	0.69	Shell Oil Company
VO-0407	Bering Glacier	60.260	143.073		62H-1703+1	Eocene	Kulthieth	0.74	Shell Oil Company
VO-0408	Bering Glacier	60.260	143.073		62H-1703+27	Eocene	Kulthieth	0.74	Shell Oil Company
VO-0409	Bering Glacier	60.260	143.073		62H-1704+2	Eocene	Kulthieth	0.72	Shell Oil Company
VO-0410	Bering Glacier	60.260	143.073		62H-1704-32	Eocene	Kulthieth	0.69	Shell Oil Company
VO-0411	Bering Glacier	60.260	143.073		62H-1705+5	Eocene	Kulthieth	0.78	Shell Oil Company
VO-0412	Bering Glacier	60.260	143.073		62H-1705+66	Eocene	Kulthieth	0.77	Shell Oil Company
VO-0413	Bering Glacier	60.260	143.073		62H-1709+860	Oligocene	Poul Creek	0.61	Shell Oil Company
VO-0414	Bering Glacier	60.260	143.073		62H-1709+830	Oligocene	Poul Creek	0.67	Shell Oil Company
VO-0415	Bering Glacier	60.260	143.073		62H-1709+510	Oligocene	Poul Creek	0.88	Shell Oil Company
VO-0416	Bering Glacier	60.260	143.073		62H-1709+470	Oligocene	Poul Creek	0.98	Shell Oil Company
VO-0417	Bering Glacier	60.260	143.073		62H-1709+210	Oligocene	Poul Creek	0.68	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0418	Bering Glacier	60.260	143.073		62H-1706+415	Oligocene	Poul Creek	1.00	Shell Oil Company
VO-0419	Bering Glacier	60.260	143.073		62H-1706+250	Oligocene	Poul Creek	0.84	Shell Oil Company
VO-0420	Bering Glacier	60.260	143.073		62H-1706+230	Oligocene	Poul Creek	0.56	Shell Oil Company
VO-0421	Bering Glacier	60.260	143.073		62H-1706+200	Oligocene	Poul Creek	0.84	Shell Oil Company
VO-0422	Bering Glacier	60.260	143.073		62H-1706+145	Oligocene	Poul Creek	0.96	Shell Oil Company
VO-0423	Bering Glacier	60.260	143.073		62H-1706+30	Oligocene	Poul Creek	0.74	Shell Oil Company
VO-0424	Bering Glacier	60.260	143.073		62H-1705+5	Oligocene-Eocene	Kulthieth	0.83	Shell Oil Company
VO-0425	Bering Glacier	60.260	143.073		62H-1704-32	Oligocene-Eocene	Kulthieth	0.64	Shell Oil Company
VO-0426	Bering Glacier	60.260	143.073		62H-1704+2	Oligocene-Eocene	Kulthieth	0.86	Shell Oil Company
VO-0427	Bering Glacier	60.260	143.073		62H-1703+27	Oligocene-Eocene	Kulthieth	1.08	Shell Oil Company
VO-0428	Bering Glacier	60.260	143.073		62H-1703+1	Oligocene-Eocene	Kulthieth	1.02	Shell Oil Company
VO-0429	Bering Glacier	60.260	143.073		62H-1702+20	Oligocene-Eocene	Kulthieth	0.69	Shell Oil Company
VO-0430	Bering Glacier	60.260	143.073		62H-1702+2	Oligocene-Eocene	Kulthieth	0.67	Shell Oil Company
VO-0431	Bering Glacier	60.263	141.107		69APR56C	Eocene-Paleocene	Kulthieth	2.36	Shell Oil Company
VO-0432	Bering Glacier	60.267	143.303		73B-78+550	Eocene	Kulthieth	0.53	Shell Oil Company
VO-0433	Bering Glacier	60.267	143.303		73B-78+600	Eocene	Kulthieth	0.73	Shell Oil Company
VO-0434	Bering Glacier	60.272	141.377		71F-98B	Eocene?	Kulthieth	2.25	Shell Oil Company
VO-0435	Bering Glacier	60.272	141.377		71F-88C	Eocene?	Kulthieth	2.83	Shell Oil Company
VO-0436	Bering Glacier	60.278	141.347		69APR60A2	Eocene-Paleocene	Kulthieth	1.89	Shell Oil Company
VO-0437	Bering Glacier	60.282	143.107		72R-19A+625	Pliocene-Pleistocene	Yakataga	0.43	Shell Oil Company
VO-0438	Bering Glacier	60.282	143.107		72R-19A+558	Pliocene-Pleistocene	Yakataga	0.48	Shell Oil Company
VO-0439	Bering Glacier	60.282	143.107		72R-19+60	Pliocene-Pleistocene	Yakataga	0.40	Shell Oil Company
VO-0440	Bering Glacier	60.282	143.107		72R-19A+13	Pliocene-Pleistocene	Yakataga	0.43	Shell Oil Company
VO-0441	Bering Glacier	60.282	143.107		72R-19A+8	Pliocene-Pleistocene	Yakataga	0.46	Shell Oil Company
VO-0442	Bering Glacier	60.282	143.280		77S-GH-902	Eocene	Kulthieth	0.54	Shell Oil Company
VO-0443	Bering Glacier	60.282	143.280		77S-GH-906	Eocene	Kulthieth	0.69	Shell Oil Company
VO-0444	Bering Glacier	60.298	142.352		72D-107	Eocene	Kulthieth	1.90	Shell Oil Company
VO-0445	Bering Glacier	60.327	142.353		72D-51+200 (1980)	Eocene	Kulthieth	1.93	Shell Oil Company
VO-0446	Bering Glacier	60.327	142.353		72D-51+240 (1980)	Eocene	Kulthieth	2.14	Shell Oil Company
VO-0447	Bering Glacier	60.327	142.353		72D-51+200	Eocene	Kulthieth	1.82	Shell Oil Company
VO-0448	Bering Glacier	60.327	142.353		72D-51+240	Eocene	Kulthieth	1.99	Shell Oil Company
VO-0449	Bering Glacier	60.327	142.718		80R2B	Eocene	Kulthieth	1.42	Shell Oil Company
VO-0450	Bering Glacier	60.327	142.718		80R3	Eocene	Kulthieth	1.90	Shell Oil Company
VO-0451	Bering Glacier	60.328	141.383		71F-97B	Eocene	Kulthieth	1.41	Shell Oil Company
VO-0452	Bering Glacier	60.328	141.383		71F-97C	Eocene	Kulthieth	1.28	Shell Oil Company
VO-0453	Bering Glacier	60.328	142.522		80R-1	Eocene	Kulthieth	2.43	Shell Oil Company
VO-0454	Bering Glacier	60.340	142.558		71F-33E	Eocene	Kulthieth	2.49	Shell Oil Company
VO-0455	Bering Glacier	60.340	142.558		71F-33D	Eocene	Kulthieth	2.46	Shell Oil Company
VO-0456	Bering Glacier	60.340	142.558		71F-33C	Eocene	Kulthieth	2.74	Shell Oil Company
VO-0457	Bering Glacier	60.340	142.558		71F-33B	Oligocene-Miocene	Poul Creek	2.40	Shell Oil Company
VO-0458	Bering Glacier	60.340	142.558		71F-34C	Eocene	Kulthieth	2.45	Shell Oil Company
VO-0459	Bering Glacier	60.340	142.558		71F-34A	Eocene	Kulthieth	2.39	Shell Oil Company
VO-0460	Bering Glacier	60.340	142.558		62H-2001-2	Oligocene-Eocene	Kulthieth	2.16	Shell Oil Company
VO-0461	Bering Glacier	60.340	142.558		62H-2001-10	Oligocene-Eocene	Kulthieth	2.29	Shell Oil Company
VO-0462	Bering Glacier	60.340	142.558		62H-2001-11	Oligocene-Eocene	Kulthieth	2.48	Shell Oil Company
VO-0463	Bering Glacier	60.340	142.558		62H-2001-15	Oligocene-Eocene	Kulthieth	2.20	Shell Oil Company
VO-0464	Bering Glacier	60.342	142.357		80R-22B	Eocene	Kulthieth	3.19	Shell Oil Company
VO-0465	Bering Glacier	60.342	142.357		80R-22C	Eocene	Kulthieth	3.21	Shell Oil Company
VO-0466	Bering Glacier	60.342	142.357		80R-22D	Eocene	Kulthieth	2.59	Shell Oil Company
VO-0467	Bering Glacier	60.342	142.357		80R-22E	Eocene	Kulthieth	2.55	Shell Oil Company
VO-0468	Bering Glacier	60.352	142.210		72D-48+20 (1980)	Eocene	Kulthieth	3.19	Shell Oil Company
VO-0469	Bering Glacier	60.352	142.210		72D-48+20	Eocene	Kulthieth	3.38	Shell Oil Company
VO-0470	Bering Glacier	60.353	142.150		72D-49+300 (1980)	Eocene	Kulthieth	3.18	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0471	Bering Glacier	60.353	142.150		72D-49+300	Eocene	Kulthieth	3.41	Shell Oil Company
VO-0472	Bering Glacier	60.355	142.718		62H-1618+600	Oligocene-L. Miocene	Poul Creek	1.80	Shell Oil Company
VO-0473	Bering Glacier	60.355	142.718		62H-1618+550	Oligocene-L. Miocene	Poul Creek	1.83	Shell Oil Company
VO-0474	Bering Glacier	60.355	142.718		62H-1618+80	Oligocene-L. Miocene	Poul Creek	1.55	Shell Oil Company
VO-0475	Bering Glacier	60.355	142.718		62H-1618+55	Oligocene-L. Miocene	Poul Creek	1.74	Shell Oil Company
VO-0476	Bering Glacier	60.355	142.718		62H-1618+4	Oligocene-L. Miocene	Poul Creek	1.04	Shell Oil Company
VO-0477	Bering Glacier	60.355	142.718		62H-1615+185	Oligocene-L. Miocene	Poul Creek	1.67	Shell Oil Company
VO-0478	Bering Glacier	60.355	142.718		62H-1614+340	Oligocene-L. Miocene	Poul Creek	1.32	Shell Oil Company
VO-0479	Bering Glacier	60.355	142.718		62H-1614+270	Oligocene-L. Miocene	Poul Creek	1.31	Shell Oil Company
VO-0480	Bering Glacier	60.355	142.718		62H-1614+145	Oligocene-L. Miocene	Poul Creek	1.61	Shell Oil Company
VO-0481	Bering Glacier	60.355	142.718		62H-1614+20	Oligocene-L. Miocene	Poul Creek	1.92	Shell Oil Company
VO-0482	Bering Glacier	60.355	142.718		62H-1601+245	Oligocene-L. Miocene	Poul Creek	1.82	Shell Oil Company
VO-0483	Bering Glacier	60.355	142.718		62H-1601+370	Oligocene-L. Miocene	Poul Creek	1.49	Shell Oil Company
VO-0484	Bering Glacier	60.355	142.718		62H-1602+40	Oligocene-L. Miocene	Poul Creek	1.65	Shell Oil Company
VO-0485	Bering Glacier	60.355	142.718		62H-1602+150	Oligocene-L. Miocene	Poul Creek	1.60	Shell Oil Company
VO-0486	Bering Glacier	60.355	142.718		62H-1604+30	Oligocene-L. Miocene	Poul Creek	1.27	Shell Oil Company
VO-0487	Bering Glacier	60.355	142.718		62H-1604+150	Oligocene-L. Miocene	Poul Creek	1.42	Shell Oil Company
VO-0488	Bering Glacier	60.355	142.718		62H-1605+3	Eocene	Kulthieth	1.31	Shell Oil Company
VO-0489	Bering Glacier	60.355	142.718		62H-1606+5	Eocene	Kulthieth	1.51	Shell Oil Company
VO-0490	Bering Glacier	60.355	142.718		62H-1608+38	Eocene	Kulthieth	1.64	Shell Oil Company
VO-0491	Bering Glacier	60.355	142.718		62H-1613+4	Eocene	Kulthieth	1.80	Shell Oil Company
VO-0492	Bering Glacier	60.362	142.783		72D-36C	Oligocene-L. Miocene	Poul Creek	1.51	Shell Oil Company
VO-0493	Bering Glacier	60.370	142.440		72D-46	Eocene	Kulthieth	2.79	Shell Oil Company
VO-0494	Bering Glacier	60.385	142.412		72D-45+150	Eocene	Kulthieth	2.86	Shell Oil Company
VO-0495	Bering Glacier	60.385	142.412		72D-45+220	Eocene	Kulthieth	2.88	Shell Oil Company
VO-0496	Bering Glacier	60.385	142.412		72D-45+285	Eocene	Kulthieth	2.74	Shell Oil Company
VO-0497	Bering Glacier	60.385	142.412		72D-45+400	Eocene	Kulthieth	2.78	Shell Oil Company
VO-0498	Bering Glacier	60.385	142.412		72D-45+500	Eocene	Kulthieth	2.69	Shell Oil Company
VO-0499	Bering Glacier	60.412	143.550		72N19+1475	Eocene	Kushtaka-Kulthieth	2.6	Shell Oil Company
VO-0500	Bering Glacier	60.412	143.550		72N19-1325	Eocene	Kushtaka-Kulthieth	2.18	Shell Oil Company
VO-0501	Bering Glacier	60.412	143.550		72N19-1050	Eocene	Kushtaka-Kulthieth	2.28	Shell Oil Company
VO-0502	Bering Glacier	60.412	143.550		72N19-500	Eocene	Kushtaka-Kulthieth	2.15	Shell Oil Company
VO-0503	Bering Glacier	60.412	143.550		72N19-50	Eocene	Kushtaka-Kulthieth	1.78	Shell Oil Company
VO-0504	Bering Glacier	60.412	143.550		72N 19+1475 (RM, 75)	Oligocene-U. Eocene	Kushtaka	2.66	Shell Oil Company
VO-0505	Bering Glacier	60.412	143.550		72N 19+1475 (1975)	Oligocene-U. Eocene	Kushtaka	2.25	Shell Oil Company
VO-0506	Bering Glacier	60.412	143.550		72N 19+1050 (1975)	Oligocene-U. Eocene	Kushtaka	2.04	Shell Oil Company
VO-0507	Bering Glacier	60.412	143.550		72N 19+50 (1975)	Oligocene-U. Eocene	Kushtaka	1.66	Shell Oil Company
VO-0508	Bering Glacier	60.455	143.880		72M7+3375A	Eocene	Kushtaka-Kulthieth	1.91	Shell Oil Company
VO-0509	Bering Glacier	60.460	143.058		74L-48	Cretaceous	Yakutat	2.20	Shell Oil Company
VO-0510	Bering Glacier	60.47111	143.85111	549	K-81 11-2	Tertiary	Kushtaka Fm	9.46	Smith and Rao, 1986
VO-0511	Bering Glacier	60.47111	143.85111	549	K-81 11-1	Tertiary	Kushtaka Fm	2.63	Smith and Rao, 1986
VO-0512	Bering Glacier	60.47111	143.85861	549	K-81 13	Tertiary	Kushtaka Fm	2.66	Smith and Rao, 1986
VO-0513	Bering Glacier	60.473	142.795		72R11+101	Paleocene	Hayden Peak	1.92	Shell Oil Company
VO-0514	Bering Glacier	60.473	142.795		72R11+125	Paleocene	Hayden Peak	1.88	Shell Oil Company
VO-0515	Bering Glacier	60.473	142.795		72R11+190	Paleocene	Hayden Peak	1.87	Shell Oil Company
VO-0516	Bethel	60.03556	160.78778	229	89AJM59b	Cretaceous	Kuskokwim Gp	0.93	USGS [Pawlewicz]
VO-0517	Bethel	60.07389	160.84083	823	87TM21b	Cretaceous	Kuskokwim Gp	0.83	USGS [Pawlewicz]
VO-0518	Bethel	60.07444	160.43417	853	87TM30c	Cretaceous	Kuskokwim Gp	3.65	USGS [Pawlewicz]
VO-0519	Bethel	60.08750	159.23750	792	87AJM108a	Paleozoic	Pre-Kuskokwim Gp	4.47	USGS [Pawlewicz]
VO-0520	Bethel	60.08917	160.38722	792	87ACz33d	Paleozoic	Pre-Kuskokwim Gp	1.82	USGS [Pawlewicz]
VO-0521	Bethel	60.11556	159.31667	1463	86ASB134b	Jurassic	Pre-Kuskokwim Gp	4.06	USGS [Pawlewicz]
VO-0522	Bethel	60.13694	159.99611	732	87TM24c	L. Cretaceous	Pre-Kuskokwim Gp	2.75	USGS [Pawlewicz]
VO-0523	Bethel	60.14306	159.98806	762	87TM24b	L. Cretaceous	Pre-Kuskokwim Gp	2.55	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0524	Bethel	60.147	160.837		74D-58	Cretaceous	non-marine	1.60	Shell Oil Company
VO-0525	Bethel	60.163	160.750		74D-8A	Cretaceous	non-marine	1.87	Shell Oil Company
VO-0526	Bethel	60.163	160.750		74D-8B	Cretaceous	non-marine	1.81	Shell Oil Company
VO-0527	Bethel	60.163	160.750		74D-8C	Cretaceous	non-marine	1.84	Shell Oil Company
VO-0528	Bethel	60.163	160.750		74D-8D	Cretaceous	non-marine	1.70	Shell Oil Company
VO-0529	Bethel	60.163	160.807		74D-13B	Cretaceous	non-marine	1.35	Shell Oil Company
VO-0530	Bethel	60.163	160.807		74D-13C	Cretaceous	non-marine	1.34	Shell Oil Company
VO-0531	Bethel	60.163	160.807		74D-13D	Cretaceous	non-marine	1.29	Shell Oil Company
VO-0532	Bethel	60.16583	160.74639	198	87TM19a	Cretaceous	Kuskokwim Gp	1.71	USGS [Pawlewicz]
VO-0533	Bethel	60.178	160.720		74D-6B	Cretaceous	non-marine	1.26	Shell Oil Company
VO-0534	Bethel	60.18056	160.68222	168	87AJM32d	Cretaceous	Kuskokwim Gp	1.12	USGS [Pawlewicz]
VO-0535	Bethel	60.18778	159.98306	457	89AJM76a	L. Cretaceous	Pre-Kuskokwim Gp	2.20	USGS [Pawlewicz]
VO-0536	Bethel	60.20500	160.06389	518	88AJM257b	Cretaceous	Kuskokwim Gp	3.38	USGS [Pawlewicz]
VO-0537	Bethel	60.21111	160.08194	914	87AJM38b	Cretaceous	Kuskokwim Gp	3.18	USGS [Pawlewicz]
VO-0538	Bethel	60.32500	159.73611	823	86ASB5c	Cretaceous	Kuskokwim Gp	2.64	USGS [Pawlewicz]
VO-0539	Bethel	60.33028	160.16889	533	87AJM98d	Paleozoic	Pre-Kuskokwim Gp	2.93	USGS [Pawlewicz]
VO-0540	Bethel	60.34167	161.06806	76	86ASB85	Jurassic	Nyac Terrane	2.84	USGS [Pawlewicz]
VO-0541	Bethel	60.35333	159.84139	328	86ASB8b	Cretaceous	Kuskokwim Gp	2.50	USGS [Pawlewicz]
VO-0542	Bethel	60.35444	159.79250	343	86ASB3b	Cretaceous	Kuskokwim Gp	2.83	USGS [Pawlewicz]
VO-0543	Bethel	60.36278	159.94083	290	86ASB11	Cretaceous	Kuskokwim Gp	2.81	USGS [Pawlewicz]
VO-0544	Bethel	60.36333	159.55972	320	86ASB10	Cretaceous	Kuskokwim Gp	2.50	USGS [Pawlewicz]
VO-0545	Bethel	60.365	159.937		74D-53	Cretaceous	non-marine	1.60	Shell Oil Company
VO-0546	Bethel	60.39528	159.72361	396	86ASB2c	Cretaceous	Kuskokwim Gp	2.15	USGS [Pawlewicz]
VO-0547	Bethel	60.39722	159.49139	1006	87AMM83b	L. Cretaceous	Pre-Kuskokwim Gp	3.40	USGS [Pawlewicz]
VO-0548	Bethel	60.45500	160.15278	244	86ASB21a	Cretaceous	Kuskokwim Gp	2.74	USGS [Pawlewicz]
VO-0549	Bethel	60.46528	159.77500	427	89AJM27a	Cretaceous	Kuskokwim Gp	3.25	USGS [Pawlewicz]
VO-0550	Bethel	60.48278	159.84694	320	88ASB10	Cretaceous	Kuskokwim Gp	2.82	USGS [Pawlewicz]
VO-0551	Bethel	60.49306	159.28611	564	88ASB38b	Cretaceous	Kuskokwim Gp	3.54	USGS [Pawlewicz]
VO-0552	Bethel	60.50333	160.17639	206	87AJM43b	Cretaceous	Kuskokwim Gp	2.66	USGS [Pawlewicz]
VO-0553	Bethel	60.50472	159.78667	351	89ASB29	Cretaceous	Kuskokwim Gp	2.98	USGS [Pawlewicz]
VO-0554	Bethel	60.508	160.253		74C-100+640	Cretaceous	marine	1.54	Shell Oil Company
VO-0555	Bethel	60.508	160.253		74C-100+0	Cretaceous	marine	1.71	Shell Oil Company
VO-0556	Bethel	60.51000	160.26667	191	86ASB127c	Cretaceous	Kuskokwim Gp	2.12	USGS [Pawlewicz]
VO-0557	Bethel	60.53722	160.04167	777	87ACz91b	Paleozoic	Pre-Kuskokwim Gp	4.92	USGS [Pawlewicz]
VO-0558	Bethel	60.553	160.317		74D-49B	Cretaceous	non-marine	1.45	Shell Oil Company
VO-0559	Bethel	60.56528	159.33750	594	89ML211	Cretaceous	Kuskokwim Gp	2.14	USGS [Pawlewicz]
VO-0560	Bethel	60.61444	160.19389	320	87AJM85f	Cretaceous	Kuskokwim Gp	2.62	USGS [Pawlewicz]
VO-0561	Bethel	60.62889	159.94833	686	87AMM26	Paleozoic	Pre-Kuskokwim Gp	4.43	USGS [Pawlewicz]
VO-0562	Bethel	60.63917	159.93500	815	87AMM21	Paleozoic	Pre-Kuskokwim Gp	3.61	USGS [Pawlewicz]
VO-0563	Bethel	60.64056	159.93056	815	86ASB76b	Paleozoic	Pre-Kuskokwim Gp	4.50	USGS [Pawlewicz]
VO-0564	Bethel	60.65583	159.91694	792	87AJM71d	Cretaceous	Kuskokwim Gp	4.34	USGS [Pawlewicz]
VO-0565	Bethel	60.65583	159.91694	762	87AJM71e	Cretaceous	Kuskokwim Gp	4.22	USGS [Pawlewicz]
VO-0566	Bethel	60.65722	159.95194	480	87AMM31a	Cretaceous	Kuskokwim Gp	4.61	USGS [Pawlewicz]
VO-0567	Bethel	60.68778	159.33611	419	89AJM29a	Cretaceous	Kuskokwim Gp	1.08	USGS [Pawlewicz]
VO-0568	Bethel	60.69778	160.06861	472	87AMM54	Cretaceous	Kuskokwim Gp	3.89	USGS [Pawlewicz]
VO-0569	Bethel	60.75722	160.06167	488	87AJM91a	Cretaceous	Kuskokwim Gp	3.66	USGS [Pawlewicz]
VO-0570	Bethel	60.75722	160.06167	427	87AJM91b	Cretaceous	Kuskokwim Gp	3.56	USGS [Pawlewicz]
VO-0571	Bethel	60.77778	159.80833	808	87AMM18	Cretaceous	Kuskokwim Gp	3.59	USGS [Pawlewicz]
VO-0572	Bethel	60.77833	159.30083	290	86ASB114b	Cretaceous	Kuskokwim Gp	2.05	USGS [Pawlewicz]
VO-0573	Bethel	60.78417	159.57000	297	87TM37b	Cretaceous	Kuskokwim Gp	2.94	USGS [Pawlewicz]
VO-0574	Bethel	60.78417	159.57972	305	87AJM50d	Cretaceous	Kuskokwim Gp	2.67	USGS [Pawlewicz]
VO-0575	Bethel	60.78694	159.81417	762	87AJM67a	Cretaceous	Kuskokwim Gp	3.77	USGS [Pawlewicz]
VO-0576	Bethel	60.80417	159.98472	191	87AMM33	Cretaceous	Kuskokwim Gp	4.76	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0577	Bethel	60.81111	159.53889	290	87AJM51d	Cretaceous	Kuskokwim Gp	3.87	USGS [Pawlewicz]
VO-0578	Bethel	60.84000	160.01722	396	86ASB101	Cretaceous	Kuskokwim Gp	3.98	USGS [Pawlewicz]
VO-0579	Bethel	60.84333	159.85278	235	87AJM65b	Cretaceous	Kuskokwim Gp	3.14	USGS [Pawlewicz]
VO-0580	Bethel	60.86667	159.83611	259	87AMM17	Cretaceous	Kuskokwim Gp	4.17	USGS [Pawlewicz]
VO-0581	Bethel	60.87167	159.53750	244	86ASB115b	Cretaceous	Kuskokwim Gp	3.78	USGS [Pawlewicz]
VO-0582	Bethel	60.87250	160.00778	351	87AMM52	Cretaceous	Kuskokwim Gp	3.99	USGS [Pawlewicz]
VO-0583	Bethel	60.87556	159.30028	259	88AJM250c	Cretaceous	Kuskokwim Gp	1.41	USGS [Pawlewicz]
VO-0584	Bethel	60.88194	160.03278	229	86ASB60a	Cretaceous	Kuskokwim Gp	1.27	USGS [Pawlewicz]
VO-0585	Bethel	60.88333	160.02639	244	87AJM55d	Cretaceous	Kuskokwim Gp	2.06	USGS [Pawlewicz]
VO-0586	Bethel	60.89778	159.76361	335	87AJM63a	Cretaceous	Kuskokwim Gp	3.05	USGS [Pawlewicz]
VO-0587	Bethel	60.89944	159.75056	351	87AMM15	Cretaceous	Kuskokwim Gp	3.56	USGS [Pawlewicz]
VO-0588	Bethel	60.90194	159.92639	777	86ASB68	Cretaceous	Kuskokwim Gp	3.82	USGS [Pawlewicz]
VO-0589	Bethel	60.94500	159.44806	251	87AJM52b	Cretaceous	Kuskokwim Gp	3.88	USGS [Pawlewicz]
VO-0590	Bethel	60.947	161.035		74D-76	Cretaceous	non-marine	1.06	Shell Oil Company
VO-0591	Black River	66.08333	142.26666	229	84AST51	Jurassic-Triassic		2.76	PGS - Record # 50043950020000010
VO-0592	Black River	66.19166	142.18333	229	84AKR20	Jurassic-Triassic		4.49	PGS - Record # 50043950030000010
VO-0593	Black River	66.265	143.103		71F-27C	U. Eocene-Miocene	Poul Creek	0.75	Shell Oil Company
VO-0594	Black River	66.265	143.103		71F-27A	U. Eocene-Miocene	Poul Creek	0.82	Shell Oil Company
VO-0595	Black River	66.265	143.103		71F-29	U. Eocene-Miocene	Poul Creek	0.67	Shell Oil Company
VO-0596	Black River	66.265	143.103		71F-288	U. Eocene-Miocene	Poul Creek	0.69	Shell Oil Company
VO-0597	Black River	66.265	143.103		71F-6-3	Eocene	Kulthieth	0.78	Shell Oil Company
VO-0598	Black River	66.265	143.103		71F-6-2A	Eocene	Kulthieth	0.76	Shell Oil Company
VO-0599	Black River	66.265	143.103		71F-2B	Eocene	Kulthieth	0.75	Shell Oil Company
VO-0600	Black River	66.265	143.103		71F-2C	Eocene	Kulthieth	0.75	Shell Oil Company
VO-0601	Black River	66.265	143.103		71E-6C	Eocene	Kulthieth	0.70	Shell Oil Company
VO-0602	Black River	66.265	143.103		71F-28B	Eocene	Kulthieth	0.69	Shell Oil Company
VO-0603	Black River	66.265	143.103		77H-L9	Eocene	Kulthieth	0.78	Shell Oil Company
VO-0604	Blying Sound	59.805	147.710		65APR150B	Paleocene-Eocene	Orca	0.49	Shell Oil Company
VO-0605	Blying Sound	59.805	147.710		65APR106B	Paleocene-Eocene	Orca	0.79	Shell Oil Company
VO-0606	Blying Sound	59.892	147.792		65APR87B	Paleocene-Eocene	Orca	2.49	Shell Oil Company
VO-0607	Blying Sound	59.892	147.792		65APR87C	Paleocene-Eocene	Orca	2.47	Shell Oil Company
VO-0608	Blying Sound	59.892	147.792		65APR87D	Paleocene-Eocene	Orca	2.46	Shell Oil Company
VO-0609	Blying Sound	59.892	147.792		65APR97A	Paleocene-Eocene	Orca	2.58	Shell Oil Company
VO-0610	Blying Sound	59.892	147.792		65APR97B	Paleocene-Eocene	Orca	2.11	Shell Oil Company
VO-0611	Blying Sound	59.946	149.545		61I-16-14	L. Tertiary, Paleogene		1.57	Shell Oil Company
VO-0612	Candle	65.05277	159.80916	104	85APA56	Cretaceous		0.33	USGS [Pawlewicz]
VO-0613	Candle	65.32861	159.13222	707	85APA58	Cretaceous		3.05	USGS [Pawlewicz]
VO-0614	Candle	65.37222	160.74166	37	85APA46	Cretaceous		2.35	USGS [Pawlewicz]
VO-0615	Candle	65.53055	158.25277	91	85SB62	Cretaceous		2.37	USGS [Pawlewicz]
VO-0616	Candle	65.54388	159.60250	808	85APA31	Cretaceous		1.39	USGS [Pawlewicz]
VO-0617	Chandalar	67.90361	149.81250	579	DH90-B1a	Devonian	Hunt Fork Sh	3.02	USGS [Pawlewicz]
VO-0618	Chandalar	67.95416	147.38305	1402	78ABE 7G	Devonian		2.22	PGS - Record # 50055950010000010
VO-0619	Chandler Lake	68.00333	152.28333	1402	TR15.2-7	Mississippian-Pennsylvanian	Lisburne Gp	0.28	PGS - Record # 50057950480000010
VO-0620	Chandler Lake	68.03555	152.53361	762	78ABE 233BX	Mississippian-Pennsylvanian	Lisburne Gp	3.71	PGS - Record # 50057950210000010
VO-0621	Chandler Lake	68.04583	152.71250	914	81ADT10	Permian	Siksikpuk Fm	3.16	PGS - Record # 50057950500000010
VO-0622	Chandler Lake	68.06805	152.74583	1554	81ADT6-3	Permian	Siksikpuk Fm	3.14	PGS - Record # 50057950490000010
VO-0623	Chandler Lake	68.10055	152.70555	1234	78ABE 219	Devonian	Hunt Fork Sh	2.94	PGS - Record # 50057950200000010
VO-0624	Chandler Lake	68.11666	151.67777	1250	78ABE 115A	Devonian-Mississippian	Kanayut Cong	2.74	PGS - Record # 50057950130000010
VO-0625	Chandler Lake	68.12777	152.16666	1280	78ABE 184C	Devonian-Mississippian	Kanayut Cong	1.92	PGS - Record # 50057950190000010
VO-0626	Chandler Lake	68.14805	152.01111	1524	78ABE 109B	Mississippian	Kayak Sh	1.26	PGS - Record # 50057950080000010
VO-0627	Chandler Lake	68.18194	152.19722	1585	78ABE 116CX	Mississippian	Kayak Sh	2.27	PGS - Record # 50057950140000010
VO-0628	Chandler Lake	68.19250	150.90000	1585	79ABC 30E	Devonian-Mississippian	Kanayut Cong	2.17	PGS - Record # 50057950370000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0629	Chandler Lake	68.19250	150.90000	1585	79ABC 30BX	Devonian-Mississippian	Kanayut Cong	2.11	PGS - Record # 500579503700000020
VO-0630	Chandler Lake	68.20416	152.09583	1554	78ABE 126A	Mississippian	Kayak Sh	2.32	PGS - Record # 500579501500000010
VO-0631	Chandler Lake	68.20694	151.20833	1372	78ABE 108C	Devonian-Mississippian	Kanayut Cong	1.59	PGS - Record # 500579500200000010
VO-0632	Chandler Lake	68.20694	151.20833	1372	78ABE 108A	Devonian-Mississippian	Kanayut Cong	1.49	PGS - Record # 500579500200000020
VO-0633	Chandler Lake	68.22222	152.15138	1524	78ABE 127	Mississippian	Kayak Sh	1.43	PGS - Record # 500579501600000010
VO-0634	Chandler Lake	68.25416	152.75694	1280	78ABE 135	Mississippian	Kayak Sh	2.03	PGS - Record # 500579501800000010
VO-0635	Chandler Lake	68.28666	152.76388	1219	78ABE 131	Mississippian	Kayak Sh	1.14	PGS - Record # 500579501700000010
VO-0636	Chandler Lake	68.29833	151.88166	914	80M610.7.1.39 [Skimo Creek]	Mississippian-Pennsylvanian	Lisburne Gp	1.17	PGS - Record # 500579504700000010
VO-0637	Chandler Lake	68.29972	151.83472	1067	B252D-50T100 [Skimo Creek]	Mississippian-Pennsylvanian	Lisburne Gp	1.23	PGS - Record # 500579500600000020
VO-0638	Chandler Lake	68.29972	151.83472	1067	B252B-110 [Skimo Creek]	Mississippian-Pennsylvanian	Lisburne Gp	0.67	PGS - Record # 500579500600000070
VO-0639	Chandler Lake	68.29972	151.83472	1067	B252B-5 [Skimo Creek]	Mississippian-Pennsylvanian	Lisburne Gp	0.50	PGS - Record # 500579500600000120
VO-0640	Chandler Lake	68.30167	151.86333	732	DH91-B27b	Mississippian-Pennsylvanian	Lisburne Gp	1.51	USGS [Pawlewicz]
VO-0641	Chandler Lake	68.30167	151.86333	732	DH91-B27c	Permian	Siksikpuk Fm	1.09	USGS [Pawlewicz]
VO-0642	Chandler Lake	68.30306	151.80306	853	DH91-B24b	Permian	Siksikpuk Fm	1.21	USGS [Pawlewicz]
VO-0643	Chandler Lake	68.30306	151.80306	853	DH91-B24c	Permian	Siksikpuk Fm	2.42	USGS [Pawlewicz]
VO-0644	Chandler Lake	68.30306	151.80306	853	DH91-B24e	Permian	Siksikpuk Fm	1.95	USGS [Pawlewicz]
VO-0645	Chandler Lake	68.30306	151.80306	853	DH91-B24f	Permian	Siksikpuk Fm	0.87	USGS [Pawlewicz]
VO-0646	Chandler Lake	68.30361	151.84111	792	DH91-B26a	Permian	Siksikpuk Fm	1.81	USGS [Pawlewicz]
VO-0647	Chandler Lake	68.32361	151.89500	732	DH91-B28d	Cretaceous	Okpikruak Fm	1.32	USGS [Pawlewicz]
VO-0648	Chandler Lake	68.34583	151.87083	671	83ANW16B Siltstone	L. Cretaceous	Okpikruak Fm	1.60	PGS - Record # 500579508800000010
VO-0649	Chandler Lake	68.35694	151.87500	655	DH91-B25h	Cretaceous	Okpikruak Fm	1.18	USGS [Pawlewicz]
VO-0650	Chandler Lake	68.37833	152.89500	792	80MY03.34	Triassic-Jurassic	Otuk Fm	0.83	PGS - Record # 500579504600000010
VO-0651	Chandler Lake	68.38277	151.90000	914	83ANW8B Dead Oil	Permian	Siksikpuk Fm	1.53	PGS - Record # 500579509700000010
VO-0652	Chandler Lake	68.38666	150.37500	853	83ADB12 140-162 Shale	M. Triassic	Shublik Fm	2.08	PGS - Record # 500579508000000080
VO-0653	Chandler Lake	68.38666	150.37500	853	83ADB12 110-140 Limestone	M. Triassic	Shublik Fm	2.32	PGS - Record # 500579508000000110
VO-0654	Chandler Lake	68.38666	150.37500	853	83ADB12 60-80 Shale	M. Triassic	Shublik Fm	1.67	PGS - Record # 500579508000000180
VO-0655	Chandler Lake	68.38666	150.37500	853	83ADB12 0-20	M. Triassic	Shublik Fm	1.89	PGS - Record # 500579508000000230
VO-0656	Chandler Lake	68.38666	151.87083	610	83AKY28 Dead Oil	Cretaceous	Torok Fm	1.31	PGS - Record # 500579509400000010
VO-0657	Chandler Lake	68.38666	152.85666	747	82AKY-10	Triassic-Jurassic	Otuk Fm	1.36	PGS - Record # 500579505200000010
VO-0658	Chandler Lake	68.39166	152.08750	671	83ANW11B Dead Oil	L. Cretaceous	Okpikruak Fm	1.07	PGS - Record # 500579509900000010
VO-0659	Chandler Lake	68.39500	150.87722	808	DH91-B14a	Triassic	Otuk Fm	1.82	USGS [Pawlewicz]
VO-0660	Chandler Lake	68.39500	150.87722	808	DH91-B14b	Triassic	Otuk Fm	1.69	USGS [Pawlewicz]
VO-0661	Chandler Lake	68.39917	150.32028	975	DH91-B10a	Permian	Siksikpuk Fm	2.34	USGS [Pawlewicz]
VO-0662	Chandler Lake	68.39917	150.32028	975	DH91-B10b	Permian	Siksikpuk Fm	2.30	USGS [Pawlewicz]
VO-0663	Chandler Lake	68.40666	152.80000	732	82AKY-12	Mississippian-Pennsylvanian	Lisburne Gp	0.94	PGS - Record # 500579505300000010
VO-0664	Chandler Lake	68.41083	150.25000	1036	DH91-B29b	Cretaceous	Okpikruak Fm	2.29	USGS [Pawlewicz]
VO-0665	Chandler Lake	68.41250	150.38750	1097	83AKY47D Dead Oil	L. Cretaceous	Okpikruak Fm	2.08	PGS - Record # 500579509600000010
VO-0666	Chandler Lake	68.41306	150.91778	792	DH91-B15a	Cretaceous	Okpikruak Fm	1.61	USGS [Pawlewicz]
VO-0667	Chandler Lake	68.41306	150.91778	792	DH91-B15b	Cretaceous	Okpikruak Fm	1.55	USGS [Pawlewicz]
VO-0668	Chandler Lake	68.41778	150.31417	942	89RR65B	Cretaceous	Okpikruak Fm	2.16	USGS [Pawlewicz]
VO-0669	Chandler Lake	68.41806	150.23972	1036	DH91-B29f	Cretaceous	Okpikruak Fm	2.22	USGS [Pawlewicz]
VO-0670	Chandler Lake	68.41917	150.23806	1036	DH91-B29g	Cretaceous	Okpikruak Fm	2.21	USGS [Pawlewicz]
VO-0671	Chandler Lake	68.42167	150.32083	914	DH91-B11b	Triassic	Otuk Fm	2.24	USGS [Pawlewicz]
VO-0672	Chandler Lake	68.42583	150.31639	914	DH91-B12	Cretaceous	Okpikruak Fm	2.23	USGS [Pawlewicz]
VO-0673	Chandler Lake	68.45750	150.92472	671	DH91-B16a	Cretaceous	Okpikruak Fm	1.23	USGS [Pawlewicz]
VO-0674	Chandler Lake	68.45999	152.23333	671	83ADB06 40-60	L. Cretaceous	Okpikruak Fm	1.33	PGS - Record # 500579507500000040
VO-0675	Chandler Lake	68.45999	152.23333	671	83ADB06 140-160	L. Cretaceous	Okpikruak Fm	1.17	PGS - Record # 500579507500000130
VO-0676	Chandler Lake	68.45999	152.23333	671	83ADB07 10-30	L. Cretaceous	Okpikruak Fm	1.19	PGS - Record # 500579507600000050
VO-0677	Chandler Lake	68.45999	152.23333	671	83ADB07 30-50 TY 4	L. Cretaceous	Okpikruak Fm	1.18	PGS - Record # 500579507600000080
VO-0678	Chandler Lake	68.45999	152.23333	671	83ADB07 90-100 TY 4	L. Cretaceous	Okpikruak Fm	1.03	PGS - Record # 500579507600000140
VO-0679	Chandler Lake	68.46249	152.02500	549	83AKY35 Dead Oil	Cretaceous	Torok Fm	0.94	PGS - Record # 500579509500000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0680	Chandler Lake	68.47916	150.37000	792	83ADB14 490-510	M. Triassic	Shublik Fm	1.53	PGS - Record # 500579508100000010
VO-0681	Chandler Lake	68.47916	150.37000	792	83ADB14 120-140 Shale	M. Triassic	Shublik Fm	1.52	PGS - Record # 500579508100000080
VO-0682	Chandler Lake	68.47916	150.37000	792	83ADB14 80-100 Shale	M. Triassic	Shublik Fm	1.66	PGS - Record # 500579508100000110
VO-0683	Chandler Lake	68.47916	150.37000	792	83ADB14 40-60 Siltstone	M. Triassic	Shublik Fm	1.71	PGS - Record # 500579508100000180
VO-0684	Chandler Lake	68.49583	152.29166	549	83AKY14A Dead Oil	Triassic-Jurassic	Otuk Fm	1.12	PGS - Record # 500579509200000010
VO-0685	Chandler Lake	68.49666	152.29000	594	83ADB05 55-65	Triassic-Jurassic	Otuk Fm	0.97	PGS - Record # 500579507900000010
VO-0686	Chandler Lake	68.49666	152.29000	594	83ADB05 45-50	Triassic-Jurassic	Otuk Fm	0.91	PGS - Record # 500579507900000030
VO-0687	Chandler Lake	68.49666	152.29000	594	83ADB05 20.5	Triassic-Jurassic	Otuk Fm	1.13	PGS - Record # 500579507900000050
VO-0688	Chandler Lake	68.49666	152.29000	594	83ADB05 17.5	Triassic-Jurassic	Otuk Fm	0.77	PGS - Record # 500579507900000060
VO-0689	Chandler Lake	68.50500	150.47083	762	89RR23B	Cretaceous	Cobblestone Ss	0.93	USGS [Pawlewicz]
VO-0690	Chandler Lake	68.51111	150.38056	732	DH91-B18a	M. Triassic	Shublik Fm	1.14	USGS [Pawlewicz]
VO-0691	Chandler Lake	68.51111	150.38056	732	DH91-B18b	M. Triassic	Shublik Fm	0.88	USGS [Pawlewicz]
VO-0692	Chandler Lake	68.52306	150.38694	686	MJ91-B31c	Cretaceous	Cobblestone Ss	1.19	USGS [Pawlewicz]
VO-0693	Chandler Lake	68.52306	150.38694	686	MJ91-B31d	Cretaceous	Cobblestone Ss	0.91	USGS [Pawlewicz]
VO-0694	Chandler Lake	68.52499	150.47333	732	82AKY-118	Cretaceous	Torok Fm	0.99	PGS - Record # 500579507100000010
VO-0695	Chandler Lake	68.52667	150.39083	686	MJ91-B32a	Cretaceous	Cobblestone Ss	1.09	USGS [Pawlewicz]
VO-0696	Chandler Lake	68.52722	150.47750	671	MJ91-B33a	L. Cretaceous	Torok Fm	0.93	USGS [Pawlewicz]
VO-0697	Chandler Lake	68.52722	150.47750	671	MJ91-B33b	L. Cretaceous	Torok Fm	1.02	USGS [Pawlewicz]
VO-0698	Chandler Lake	68.54333	152.47500	610	83ADB03 280-300	L. Cretaceous	Okpikruak Fm	1.22	PGS - Record # 500579507700000030
VO-0699	Chandler Lake	68.54333	152.47500	610	83ADB03 80-100	L. Cretaceous	Okpikruak Fm	1.04	PGS - Record # 500579507700000130
VO-0700	Chandler Lake	68.54500	152.47833	610	82AKY-104	Cretaceous	Fortress Mountain Fm	0.96	PGS - Record # 500579505600000010
VO-0701	Chandler Lake	68.54583	152.50000	792	83ANW1C Coal clast	Cretaceous	Fortress Mountain Fm	0.93	PGS - Record # 500579508500000010
VO-0702	Chandler Lake	68.55361	150.14722	655	89RR26B	L. Cretaceous	Torok Fm	1.38	USGS [Pawlewicz]
VO-0703	Chandler Lake	68.56611	152.58222	1036	89RR45C	L. Cretaceous	Fortress Mountain Fm	0.64	USGS [Pawlewicz]
VO-0704	Chandler Lake	68.57000	152.97972	556	80AMK 122A	Cretaceous	Fortress Mountain Fm	0.71	PGS - Record # 500579504100000040
VO-0705	Chandler Lake	68.57000	152.98222	556	80AMK 122D	Cretaceous	Fortress Mountain Fm	0.73	PGS - Record # 500579504100000010
VO-0706	Chandler Lake	68.57000	152.98222	556	80AMK 122C	Cretaceous	Fortress Mountain Fm	0.75	PGS - Record # 500579504100000020
VO-0707	Chandler Lake	68.57000	152.98222	556	80AMK 122B	Cretaceous	Fortress Mountain Fm	0.74	PGS - Record # 500579504100000030
VO-0708	Chandler Lake	68.57055	152.56388	732	80AMK 111	Cretaceous	Fortress Mountain Fm	0.65	PGS - Record # 500579503900000010
VO-0709	Chandler Lake	68.57083	152.97666	610	80AMK 121B	Cretaceous	Fortress Mountain Fm	0.76	PGS - Record # 500579504300000010
VO-0710	Chandler Lake	68.57111	152.58694	777	89RR46A	L. Cretaceous	Fortress Mountain Fm	1.08	USGS [Pawlewicz]
VO-0711	Chandler Lake	68.59166	152.22500	549	83ADB04 26-27	L. Cretaceous	Okpikruak Fm	0.92	PGS - Record # 500579507800000050
VO-0712	Chandler Lake	68.59166	152.22500	549	83ADB04 0-7	L. Cretaceous	Okpikruak Fm	0.93	PGS - Record # 500579507800000120
VO-0713	Chandler Lake	68.61000	152.70833	427	83AKY20A	Permian-Triassic	Shale	0.45	PGS - Record # 500579508200000010
VO-0714	Chandler Lake	68.61000	152.70833	427	83AKY20C Dead Oil	Permian-Triassic	Shale	0.70	PGS - Record # 500579509300000010
VO-0715	Chandler Lake	68.62944	150.56917	549	78AAH35 [Arc Mountain]	Cretaceous	Killik Tongue	0.56	PGS - Record # 500579501200000040
VO-0716	Chandler Lake	68.63139	150.57028	549	78AAH33 [Arc Mountain]	Cretaceous	Killik Tongue	0.72	PGS - Record # 500579501200000050
VO-0721	Chandler Lake	68.63611	152.99056	564	89RR39B	Cretaceous	Cobblestone Ss	0.77	USGS [Pawlewicz]
VO-0717	Chandler Lake	68.64028	150.57833	549	78AAH22 [Arc Mountain]	Cretaceous	Killik Tongue	0.49	PGS - Record # 500579501200000070
VO-0722	Chandler Lake	68.64472	150.90361	488	DH91-B17a	Cretaceous	Nanushuk Gp	0.71	USGS [Pawlewicz]
VO-0723	Chandler Lake	68.64472	150.90361	488	DH91-B17b	Cretaceous	Nanushuk Gp	0.77	USGS [Pawlewicz]
VO-0718	Chandler Lake	68.64639	150.58833	549	78AAH14 [Arc Mountain]	Cretaceous	Killik Tongue	0.52	PGS - Record # 500579501200000090
VO-0719	Chandler Lake	68.65083	150.59361	549	78AAH11 [Arc Mountain]	Cretaceous	Killik Tongue	0.56	PGS - Record # 500579501200000110
VO-0720	Chandler Lake	68.65778	150.59500	549	78AAH 5 [Arc Mountain]	Cretaceous	Killik Tongue	0.59	PGS - Record # 500579501200000120
VO-0724	Chandler Lake	68.66917	150.60861	488	78AAH 1 [Arc Mountain]	Cretaceous	Tuktu Fm	0.55	PGS - Record # 500579501200000150
VO-3895	Chandler Lake	68.67905	151.78566		BURRUSS, ROBERT - 98RCB29B		Desolation Creek	0.54	USGS [Pawlewicz]
VO-3896	Chandler Lake	68.67905	151.78566		BURRUSS, ROBERT - 98RCB26		Desolation Creek	0.58	USGS [Pawlewicz]
VO-0725	Chandler Lake	68.69138	152.24833	370	80AMK 101A	Cretaceous	Cobblestone Ss	0.58	PGS - Record # 500579503800000010
VO-0726	Chandler Lake	68.70666	152.41833	351	82AKY-110	Cretaceous	Torok Fm	0.76	PGS - Record # 500579506800000010
VO-3899	Chandler Lake	68.71088	152.24357		BURRUSS, ROBERT - 98DH66B		Tuktu 2	0.70	USGS [Pawlewicz]
VO-3914	Chandler Lake	68.71088	152.24357		HOUSEKNECHT, DAVID - 98DH-66		Tuktu 2	0.71	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3920	Chandler Lake	68.71318	151.91973		HOUSEKNECHT, DAVID - 98DH-100		Gunsight 3	0.75	USGS [Pawlewicz]
VO-3919	Chandler Lake	68.71610	151.88238		HOUSEKNECHT, DAVID - 98DH-94		Gunsight 1	0.84	USGS [Pawlewicz]
VO-0734	Chandler Lake	68.72500	152.26389	427	77AAH1 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.62	PGS - Record # 500579500100000150
VO-0733	Chandler Lake	68.73444	152.25694	427	77AAH18 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.50	PGS - Record # 500579500100000120
VO-0732	Chandler Lake	68.73750	152.14722	427	77AAH26 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.59	PGS - Record # 500579500100000110
VO-3918	Chandler Lake	68.74930	152.30352		HOUSEKNECHT, DAVID - 98DH-87		Tuktu 5B float	0.60	USGS [Pawlewicz]
VO-0731	Chandler Lake	68.75806	152.14028	427	77AAH31 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.47	PGS - Record # 500579500100000080
VO-0727	Chandler Lake	68.76944	152.11500	427	75ADT 37A [Tuktu Bluff]	Cretaceous	Killik Tongue	1.22	PGS - Record # 500579500100000020
VO-0728	Chandler Lake	68.76944	152.11500	427	78AAH51 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.54	PGS - Record # 500579500100000030
VO-0729	Chandler Lake	68.76944	152.11500	427	78AAH46COAL [Tuktu Bluff]	Cretaceous	Killik Tongue	0.51	PGS - Record # 500579500100000040
VO-0730	Chandler Lake	68.76944	152.11500	427	78AAH42 [Tuktu Bluff]	Cretaceous	Killik Tongue	0.45	PGS - Record # 500579500100000060
VO-0738	Chandler Lake	68.84167	150.57917	366	78ACH8 [Roof Top anticline]	Cretaceous	Shale Wall Mbr	0.47	PGS - Record # 500579501100000040
VO-0737	Chandler Lake	68.84167	150.58028	366	78ACH9 [Roof Top anticline]	Cretaceous	Shale Wall Mbr	0.46	PGS - Record # 500579501100000030
VO-0735	Chandler Lake	68.84306	150.56111	366	78ACH12 [Roof Top anticline]	Cretaceous	Tuktu Fm	0.51	PGS - Record # 500579501100000010
VO-0736	Chandler Lake	68.84361	150.55861	366	78ACH10 [Roof Top anticline]	Cretaceous	Tuktu Fm	0.56	PGS - Record # 500579501100000020
VO-0739	Chandler Lake	68.92944	151.21750	305	78AAH19	Cretaceous	Killik Tongue	0.55	PGS - Record # 500579501000000140
VO-0740	Charley River	65.02056	141.22361	274	UM90-K54c	Devonian	Nation River Fm	0.70	USGS [Pawlewicz]
VO-0741	Charley River	65.02167	141.21250	274	UM90-K52a	U. Ordovician-L. Devonian	Road River Fm	0.83	USGS [Pawlewicz]
VO-0742	Charley River	65.02194	141.21000	274	UM90-K50a	U. Ordovician-L. Devonian	Road River Fm	0.90	USGS [Pawlewicz]
VO-0743	Charley River	65.02194	141.21139	274	UM90-K51a	U. Ordovician-L. Devonian	Road River Fm	0.79	USGS [Pawlewicz]
VO-0744	Charley River	65.02361	141.19917	305	886-1-2	Ordovician-Devonian	Road River Fm	0.72	Underwood et al., 1989
VO-0745	Charley River	65.03083	141.34500	259	MJ90-K67b	Mississippian-Pennsylvanian	Calico Bluff Fm	0.59	USGS [Pawlewicz]
VO-0746	Charley River	65.06444	142.15389	442	UM91-K2c	Cretaceous-Tertiary	TKs map unit	0.46	USGS [Pawlewicz]
VO-0747	Charley River	65.06444	142.15389	442	UM91-K2e	Cretaceous-Tertiary	TKs map unit	0.44	USGS [Pawlewicz]
VO-0748	Charley River	65.06722	142.18750	305	83PAD156	Cretaceous-Tertiary	TKs map unit	0.77	PGS - Record # 500599500600000010
VO-0749	Charley River	65.06944	142.20000	305	83CEK008	Cretaceous-Tertiary	TKs map unit	0.44	PGS - Record # 500599501800000010
VO-0750	Charley River	65.07028	142.19778	411	UM91-K3b	Cretaceous-Tertiary	TKs map unit	0.46	USGS [Pawlewicz]
VO-0751	Charley River	65.07361	141.38778	244	MJ90-K68d	Devonian	Nation River Fm	0.56	USGS [Pawlewicz]
VO-0752	Charley River	65.08333	141.17500	314	84AST94	Jurassic		0.52	PGS - Record # 500599503800000010
VO-0753	Charley River	65.09667	141.01944	792	MJ90-K25a	Devonian	McCann Hill Chert	1.35	USGS [Pawlewicz]
VO-0754	Charley River	65.10278	141.40500	244	MJ90-K69d	Devonian	Nation River Fm	0.62	USGS [Pawlewicz]
VO-0755	Charley River	65.10306	142.25833	381	UM91-K4a	Cretaceous-Tertiary	TKs map unit	0.24	USGS [Pawlewicz]
VO-0756	Charley River	65.10306	142.25833	381	UM91-K4b	Cretaceous-Tertiary	TKs map unit	0.22	USGS [Pawlewicz]
VO-0757	Charley River	65.10833	141.48333	229	84AST72B	Devonian-Mississippian		0.72	PGS - Record # 500599502500000010
VO-0758	Charley River	65.10861	141.48278	244	MJ90-K70a	Devonian	Nation River Fm	0.57	USGS [Pawlewicz]
VO-0759	Charley River	65.12000	142.27361	305	83CEK013	Cretaceous-Tertiary	TKs map unit	0.45	PGS - Record # 500599502100000010
VO-0760	Charley River	65.12167	142.27917	351	DH91-K14b	Cretaceous-Tertiary	TKs map unit	0.37	USGS [Pawlewicz]
VO-0761	Charley River	65.13722	141.94167	396	TB90-K20	U. Triassic-L. Cretaceous	Glenn Sh	5.73	USGS [Pawlewicz]
VO-0762	Charley River	65.13750	141.90444	335	UM90-K30a	U. Triassic-L. Cretaceous	Glenn Sh	0.30	USGS [Pawlewicz]
VO-0763	Charley River	65.14722	141.68833	244	MJ90-K71a	Devonian	Nation River Fm	0.89	USGS [Pawlewicz]
VO-0764	Charley River	65.15389	141.68361	305	786-3-2c	Devonian	Nation River Fm	0.61	Underwood et al., 1989
VO-0765	Charley River	65.15389	141.68361	305	786-3-2d	Devonian	Nation River Fm	0.90	Underwood et al., 1989
VO-0766	Charley River	65.15472	142.30000	305	83PAD153	Cretaceous-Tertiary	TKs map unit	0.34	PGS - Record # 500599500500000030
VO-0767	Charley River	65.15611	141.68833	244	MJ90-K72a	Devonian	Nation River Fm	0.80	USGS [Pawlewicz]
VO-0768	Charley River	65.17194	142.29611	305	UM90-K22c	Cretaceous-Tertiary	TKs map unit	0.36	USGS [Pawlewicz]
VO-0769	Charley River	65.17194	142.29611	305	DH91-K16b	Cretaceous-Tertiary	TKs map unit	0.41	USGS [Pawlewicz]
VO-0770	Charley River	65.17194	142.29611	305	DH91-K16c	Cretaceous-Tertiary	TKs map unit	0.37	USGS [Pawlewicz]
VO-0771	Charley River	65.17194	142.29611	305	UM90-K22j	Cretaceous-Tertiary	TKs map unit	0.44	USGS [Pawlewicz]
VO-0772	Charley River	65.17500	141.70000	229	84AST16	Devonian-Mississippian		0.67	PGS - Record # 500599502300000010
VO-0773	Charley River	65.17500	141.70000	229	84AST17B	Devonian-Mississippian		0.63	PGS - Record # 500599502400000010
VO-0774	Charley River	65.17750	141.68667	366	786-4-2c	Devonian	Nation River Fm	0.71	Underwood et al., 1989
VO-0775	Charley River	65.18167	142.51222	335	DH91-K17b	Cretaceous-Tertiary	TKs map unit	1.76	USGS [Pawlewicz]
VO-0776	Charley River	65.20278	141.34333	396	MJ90-K34a	Devonian	Nation River Fm	0.84	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0777	Charley River	65.20417	141.74722	244	MJ90-K74a	Devonian	Nation River Fm	1.19	USGS [Pawlewicz]
VO-0778	Charley River	65.20861	141.68472	244	TB90-K59c	Devonian	Nation River Fm	0.83	USGS [Pawlewicz]
VO-0779	Charley River	65.21250	142.27500	305	83PAD147	Cretaceous-Tertiary	TKs map unit	0.31	PGS - Record # 500599500400000050
VO-0780	Charley River	65.21250	142.27500	305	83PAD148	Cretaceous-Tertiary	TKs map unit	0.36	PGS - Record # 500599500400000060
VO-0781	Charley River	65.21306	142.27639	305	DH91-K15a	Cretaceous-Tertiary	TKs map unit	0.31	USGS [Pawlewicz]
VO-0782	Charley River	65.21472	141.35583	396	MJ90-K31b	Devonian	Nation River Fm	0.70	USGS [Pawlewicz]
VO-0783	Charley River	65.23528	141.38167	366	MJ90-K35c	Devonian	Nation River Fm	0.69	USGS [Pawlewicz]
VO-0784	Charley River	65.25250	142.29611	274	UM90-K24a	U. Triassic-L. Cretaceous	Glenn Sh	4.29	USGS [Pawlewicz]
VO-0785	Charley River	65.25333	142.29889	274	UM90-K25c	U. Triassic-L. Cretaceous	Glenn Sh	3.87	USGS [Pawlewicz]
VO-0786	Charley River	65.25639	142.30361	274	UM90-K26b	U. Triassic-L. Cretaceous	Glenn Sh	4.80	USGS [Pawlewicz]
VO-0787	Charley River	65.25833	142.30000	274	84AST85	Jurassic		3.96	PGS - Record # 500599503200000010
VO-0788	Charley River	65.25833	142.30000	274	84AST86	Jurassic		3.70	PGS - Record # 500599503300000010
VO-0789	Charley River	65.25833	142.30000	274	84AST87	Jurassic		3.81	PGS - Record # 500599503400000010
VO-0790	Charley River	65.25833	142.30000	274	84AST89	Jurassic		4.49	PGS - Record # 500599503500000010
VO-0791	Charley River	65.25833	142.30000	274	84AST90	Jurassic		4.47	PGS - Record # 500599503600000010
VO-0792	Charley River	65.25833	142.30000	274	84AKR31	Jurassic		3.82	PGS - Record # 500599503900000010
VO-0793	Charley River	65.25833	142.30000	274	84AKR33	Jurassic		4.51	PGS - Record # 500599504000000010
VO-0794	Charley River	65.25833	142.30000	274	84AKR34	Jurassic		4.66	PGS - Record # 500599504100000010
VO-0795	Charley River	65.26306	142.74361	244	UM91-K1a	U. Triassic-L. Cretaceous	Glenn Sh	3.77	USGS [Pawlewicz]
VO-0796	Charley River	65.26306	142.74361	244	UM91-K1b	U. Triassic-L. Cretaceous	Glenn Sh	3.82	USGS [Pawlewicz]
VO-0797	Charley River	65.26389	141.63944	274	TB90-K54b	U. Ordovician-L. Devonian	Road River Fm	0.69	USGS [Pawlewicz]
VO-0798	Charley River	65.26666	141.64333	259	84AST74	Silurian		3.03	PGS - Record # 500599502700000010
VO-0799	Charley River	65.26666	141.64333	259	84AST76	Silurian		3.05	PGS - Record # 500599502800000010
VO-0800	Charley River	65.26666	141.64333	259	84AST78	Silurian		2.77	PGS - Record # 500599502900000010
VO-0801	Charley River	65.26666	141.64333	259	84AST79	Silurian		2.63	PGS - Record # 500599503000000010
VO-0802	Charley River	65.26694	142.95361	305	DH91-K18	Cretaceous-Tertiary	TKs map unit	0.15	USGS [Pawlewicz]
VO-0803	Charley River	65.27056	143.26306	351	DH91-K1a	Cretaceous-Tertiary	TKs map unit	0.30	USGS [Pawlewicz]
VO-0804	Charley River	65.27056	143.26306	351	DH91-K1c	Cretaceous-Tertiary	TKs map unit	0.39	USGS [Pawlewicz]
VO-0805	Charley River	65.27166	141.64333	259	84AST73	Devonian		2.94	PGS - Record # 500599502600000010
VO-0806	Charley River	65.27416	143.29583	305	83PAD165	Cretaceous-Tertiary	TKs map unit	0.42	PGS - Record # 500599501000000010
VO-0807	Charley River	65.27416	143.29583	305	83PAD167	Cretaceous-Tertiary	TKs map unit	0.38	PGS - Record # 500599501000000030
VO-0808	Charley River	65.27806	143.24000	335	DH91-K2	Cretaceous-Tertiary	TKs map unit	1.12	USGS [Pawlewicz]
VO-0809	Charley River	65.27833	143.24083	335	DH91-K3a	Cretaceous-Tertiary	TKs map unit	0.43	USGS [Pawlewicz]
VO-0810	Charley River	65.27833	143.24083	335	MJ90-K95b	Cretaceous-Tertiary	TKs map unit	0.93	USGS [Pawlewicz]
VO-0811	Charley River	65.27972	141.47694	335	MJ90-K36a	Cretaceous-Tertiary	TKs map unit	0.45	USGS [Pawlewicz]
VO-0812	Charley River	65.27972	142.93861	274	DH91-K19a	U. Triassic-L. Cretaceous	Glenn Sh	3.67	USGS [Pawlewicz]
VO-0813	Charley River	65.27972	142.93861	274	DH91-K19b	U. Triassic-L. Cretaceous	Glenn Sh	3.55	USGS [Pawlewicz]
VO-0814	Charley River	65.27972	141.47694	335	MJ90-K36a	Cretaceous-Tertiary	TKs map unit	0.45	USGS [Pawlewicz]
VO-0815	Charley River	65.28250	142.03111	244	786-7-3a	Triassic-L. Cretaceous	Glenn Shale	2.83	Underwood et al., 1989
VO-0816	Charley River	65.28417	142.30611	244	MJ91-K2	U. Triassic-L. Cretaceous	Glenn Sh	4.31	USGS [Pawlewicz]
VO-0817	Charley River	65.29111	141.63833	305	TB90-K53c	Devonian	Nation River Fm	2.45	USGS [Pawlewicz]
VO-0818	Charley River	65.29667	142.09333	244	UM90-K31a	U. Triassic-L. Cretaceous	Glenn Sh	4.13	USGS [Pawlewicz]
VO-0819	Charley River	65.29722	143.16472	274	DH91-K7	U. Triassic-L. Cretaceous	Glenn Sh	0.44	USGS [Pawlewicz]
VO-0820	Charley River	65.29778	143.16194	274	DH91-K4a	U. Triassic-L. Cretaceous	Glenn Sh	4.27	USGS [Pawlewicz]
VO-0821	Charley River	65.29806	142.30083	274	UM90-K27a	L. Cretaceous	Biederman Arg	4.34	USGS [Pawlewicz]
VO-0822	Charley River	65.29944	143.15861	274	DH91-K5a	U. Triassic-L. Cretaceous	Glenn Sh	4.35	USGS [Pawlewicz]
VO-0823	Charley River	65.30056	141.59917	274	TB90-K50b	Devonian	Nation River Fm	2.82	USGS [Pawlewicz]
VO-0824	Charley River	65.30111	141.59861	274	TB90-K49c	Devonian	Nation River Fm	2.44	USGS [Pawlewicz]
VO-0825	Charley River	65.30194	143.17306	335	MJ90-K98b	Paleozoic	Pza map unit	3.73	USGS [Pawlewicz]
VO-0826	Charley River	65.30250	141.62389	274	TB90-K52a	Devonian	Nation River Fm	2.64	USGS [Pawlewicz]
VO-0827	Charley River	65.30389	141.62417	305	786-29-1	Devonian	Nation River Fm	2.04	Underwood et al., 1989
VO-0828	Charley River	65.30389	142.09139	244	786-8-2a	Valanginian	Biederman Arg	3.49	Underwood et al., 1989
VO-0829	Charley River	65.30389	142.09139	244	786-8-2b	Valanginian	Biederman Arg	3.29	Underwood et al., 1989

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0830	Charley River	65.30444	141.62056	274	TB90-K51a	Devonian	Nation River Fm	2.75	USGS [Pawlewicz]
VO-0831	Charley River	65.30472	143.15306	274	MJ90-K94a	Paleozoic	Pza map unit	4.24	USGS [Pawlewicz]
VO-0832	Charley River	65.30472	143.16611	335	MJ90-K99	Paleozoic	Pza map unit	3.97	USGS [Pawlewicz]
VO-0833	Charley River	65.30750	142.09194	229	UM90-K78f	U. Triassic-L. Cretaceous	Glenn Sh	4.11	USGS [Pawlewicz]
VO-0834	Charley River	65.30750	142.09194	229	UM90-K78h	U. Triassic-L. Cretaceous	Glenn Sh	2.43	USGS [Pawlewicz]
VO-0835	Charley River	65.31056	142.09333	229	MJ90-K79c	L. Cretaceous	Biederman Arg	4.42	USGS [Pawlewicz]
VO-0836	Charley River	65.31056	142.13278	229	MJ90-K79g	L. Cretaceous	Biederman Arg	4.35	USGS [Pawlewicz]
VO-0837	Charley River	65.31861	141.57222	305	DH91-K13a	Devonian	Nation River Fm	3.01	USGS [Pawlewicz]
VO-0838	Charley River	65.31861	141.57222	305	DH91-K13b	Devonian	Nation River Fm	2.96	USGS [Pawlewicz]
VO-0839	Charley River	65.32806	142.90944	213	MJ90-K92a	L. Cretaceous	Biederman Arg	4.77	USGS [Pawlewicz]
VO-0840	Charley River	65.33528	140.83167	732	786-30-3	Devonian	McCann Hill Chert	1.13	Underwood et al., 1989
VO-0841	Charley River	65.33694	142.93417	213	MJ90-K93a	L. Cretaceous	Biederman Arg	4.66	USGS [Pawlewicz]
VO-0842	Charley River	65.34417	142.71111	213	MJ90-K91b	L. Cretaceous	Biederman Arg	5.04	USGS [Pawlewicz]
VO-0843	Charley River	65.34778	142.48028	219	MJ90-K82b	L. Cretaceous	Biederman Arg	5.02	USGS [Pawlewicz]
VO-0844	Charley River	65.34861	141.04861	1372	MJ90-K15a	U. Ordovician-L. Devonian	Road River Fm	1.81	USGS [Pawlewicz]
VO-0845	Charley River	65.34972	141.45639	320	DH91-K9e	Cretaceous-Tertiary	TKs map unit	0.77	USGS [Pawlewicz]
VO-0846	Charley River	65.34972	141.45639	320	DH91-K9f	Cretaceous-Tertiary	TKs map unit	0.35	USGS [Pawlewicz]
VO-0847	Charley River	65.35056	142.13278	229	MJ90-K80c	L. Cretaceous	Biederman Arg	3.02	USGS [Pawlewicz]
VO-0848	Charley River	65.35111	142.17806	229	MJ90-K81b	L. Cretaceous	Biederman Arg	2.72	USGS [Pawlewicz]
VO-0849	Charley River	65.35111	142.14889	305	786-13-1	Valanginian	Biederman Arg	2.09	Underwood et al., 1989
VO-0850	Charley River	65.35111	143.00972	244	786-14-4	Valanginian	Biederman Arg	4.16	Underwood et al., 1989
VO-0851	Charley River	65.35389	142.69361	213	MJ90-K90d	L. Cretaceous	Biederman Arg	4.92	USGS [Pawlewicz]
VO-0852	Charley River	65.35639	142.49611	219	MJ90-K83d	L. Cretaceous	Biederman Arg	4.71	USGS [Pawlewicz]
VO-0853	Charley River	65.36389	141.44278	320	DH91-K12a	Cretaceous-Tertiary	TKs map unit	0.43	USGS [Pawlewicz]
VO-0854	Charley River	65.36389	141.44278	320	DH91-K12d	Cretaceous-Tertiary	TKs map unit	0.47	USGS [Pawlewicz]
VO-0855	Charley River	65.36389	141.44278	320	DH91-K12e	Cretaceous-Tertiary	TKs map unit	0.45	USGS [Pawlewicz]
VO-0856	Charley River	65.36389	141.44278	320	DH91-K12f	Cretaceous-Tertiary	TKs map unit	0.41	USGS [Pawlewicz]
VO-0857	Charley River	65.36389	142.50639	216	MJ90-K84b	L. Cretaceous	Biederman Arg	4.76	USGS [Pawlewicz]
VO-0858	Charley River	65.36444	142.50639	244	786-12-1d	Valanginian	Biederman Arg	3.67	Underwood et al., 1989
VO-0859	Charley River	65.37222	142.52361	216	MJ90-K85b	L. Cretaceous	Biederman Arg	4.98	USGS [Pawlewicz]
VO-0860	Charley River	65.38444	142.65972	244	MJ90-K89c	L. Cretaceous	Biederman Arg	5.10	USGS [Pawlewicz]
VO-0861	Charley River	65.38806	141.80139	884	UM90-K32c	U. Triassic-L. Cretaceous	Glenn Sh	2.90	USGS [Pawlewicz]
VO-0862	Charley River	65.39722	142.63361	305	796-14-3	Valanginian	Biederman Arg	3.55	Underwood et al., 1989
VO-0863	Charley River	65.39833	142.63833	213	MJ90-K88c	L. Cretaceous	Biederman Arg	4.69	USGS [Pawlewicz]
VO-0864	Charley River	65.40056	142.41278	244	786-27-4a	Valanginian	Biederman Arg	2.68	Underwood et al., 1989
VO-0865	Charley River	65.40056	142.41278	244	786-27-4b	Valanginian	Biederman Arg	3.52	Underwood et al., 1989
VO-0866	Charley River	65.40528	142.62083	290	MJ90-K87b	L. Cretaceous	Biederman Arg	4.40	USGS [Pawlewicz]
VO-0867	Charley River	65.40722	142.60306	213	MJ90-K86b	L. Cretaceous	Biederman Arg	4.21	USGS [Pawlewicz]
VO-0868	Charley River	65.40833	142.61111	305	786-14-1	Valanginian	Biederman Arg	3.27	Underwood et al., 1989
VO-0869	Charley River	65.41250	143.51500	198	DH91-K22a	Devonian	Woodchopper Volcs	4.66	USGS [Pawlewicz]
VO-0870	Charley River	65.41250	143.51500	198	DH91-K22b	Devonian	Woodchopper Volcs	4.09	USGS [Pawlewicz]
VO-0871	Charley River	65.41556	141.40167	351	DH91-K10a	U. Triassic-L. Cretaceous	Glenn Sh	3.87	USGS [Pawlewicz]
VO-0872	Charley River	65.41667	141.39833	351	DH91-K10b	U. Triassic-L. Cretaceous	Glenn Sh	3.82	USGS [Pawlewicz]
VO-0873	Charley River	65.41833	142.35889	244	786-27-2a	Valanginian	Biederman Arg	1.85	Underwood et al., 1989
VO-0874	Charley River	65.41917	141.54861	914	MU90-K10a	Vallanginian	Keenan Qzt	1.59	USGS [Pawlewicz]
VO-0875	Charley River	65.43833	141.57944	701	MU90-K9a	U. Triassic-L. Cretaceous	Glenn Sh	2.68	USGS [Pawlewicz]
VO-0876	Charley River	65.44417	142.25750	305	786-27-1a	Valanginian	Biederman Arg	1.90	Underwood et al., 1989
VO-0877	Charley River	65.44417	142.25750	305	786-27-1b	Valanginian	Biederman Arg	1.58	Underwood et al., 1989
VO-0878	Charley River	65.44639	143.67889	213	DH91-K25a	Devonian	Woodchopper Volcs	2.27	USGS [Pawlewicz]
VO-0879	Charley River	65.45000	141.96333	290	84AST84	Cretaceous		3.12	PGS - Record # 500599503100000010
VO-0880	Charley River	65.45056	141.56250	732	MU90-K11a	Devonian	Ford Lake Sh	2.73	USGS [Pawlewicz]
VO-0881	Charley River	65.45278	142.21417	274	MJ90-K37a	L. Cretaceous	Biederman Arg	2.82	USGS [Pawlewicz]
VO-0882	Charley River	65.45361	143.12222	427	UM90-K21	U. Triassic-L. Cretaceous	Glenn Sh	2.25	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

		North	West	Elev				Mean Ro	
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	(%)	Source of Data
VO-0883	Charley River	65.45472	141.32889	366	MJ90-K23a	L. Cretaceous	Biederman Arg	3.45	USGS [Pawlewicz]
VO-0884	Charley River	65.45667	141.72444	411	MJ90-K54	L. Cretaceous	Biederman Arg	3.42	USGS [Pawlewicz]
VO-0885	Charley River	65.45778	143.12222	427	UM90-K20	U. Triassic-L. Cretaceous	Glenn Sh	3.88	USGS [Pawlewicz]
VO-0886	Charley River	65.46111	141.87944	305	MJ90-K56a	L. Cretaceous	Biederman Arg	3.94	USGS [Pawlewicz]
VO-0887	Charley River	65.46278	141.52444	914	MJ90-K11	Devonian	Ford Lake Sh	3.88	USGS [Pawlewicz]
VO-0888	Charley River	65.46417	143.12361	442	UM90-K17	U. Triassic-L. Cretaceous	Glenn Sh	1.66	USGS [Pawlewicz]
VO-0889	Charley River	65.46417	143.12361	442	UM90-K18	U. Triassic-L. Cretaceous	Glenn Sh	3.03	USGS [Pawlewicz]
VO-0890	Charley River	65.46472	141.56194	853	MU90-K8a	Devonian	Ford Lake Sh	2.00	USGS [Pawlewicz]
VO-0891	Charley River	65.46944	143.12583	549	UM90-K16	Permian	Step Cong	2.72	USGS [Pawlewicz]
VO-0892	Charley River	65.47500	141.47167	914	MU90-K2	Devonian	Ford Lake Sh	2.41	USGS [Pawlewicz]
VO-0893	Charley River	65.47500	141.75750	396	MJ90-K55b	L. Cretaceous	Biederman Arg	3.72	USGS [Pawlewicz]
VO-0894	Charley River	65.47556	141.47028	884	MU90-K3	Devonian	Ford Lake Sh	2.43	USGS [Pawlewicz]
VO-0895	Charley River	65.47694	141.48111	1097	MJ90-K6	Devonian	Nation River Fm	3.70	USGS [Pawlewicz]
VO-0896	Charley River	65.47778	141.48000	1097	MJ90-K5	Devonian	Nation River Fm	2.50	USGS [Pawlewicz]
VO-0897	Charley River	65.47917	141.47861	1097	MJ90-K4	Devonian	Ford Lake Sh	2.52	USGS [Pawlewicz]
VO-0898	Charley River	65.48750	141.43917	945	MU90-K4	Devonian	Ford Lake Sh	2.80	USGS [Pawlewicz]
VO-0899	Charley River	65.48889	142.24778	305	MJ90-K38a	L. Cretaceous	Biederman Arg	2.91	USGS [Pawlewicz]
VO-0900	Charley River	65.51111	141.74417	366	786-26-1a	L. Cretaceous	Kandik Gp	2.48	Underwood et al., 1989
VO-0901	Charley River	65.51111	141.74417	366	786-26-1b	L. Cretaceous	Kandik Gp	2.94	Underwood et al., 1989
VO-0902	Charley River	65.51694	141.66111	366	786-25-10	L. Cretaceous	Kathul Gwk	1.58	Underwood et al., 1989
VO-0903	Charley River	65.51806	141.62694	366	786-25-8a	L. Cretaceous	Kathul Gwk	2.17	Underwood et al., 1989
VO-0904	Charley River	65.51806	141.62694	366	786-25-8b	L. Cretaceous	Kathul Gwk	1.75	Underwood et al., 1989
VO-0905	Charley River	65.53528	142.42361	427	MJ90-K40a	L. Cretaceous	Biederman Arg	4.74	USGS [Pawlewicz]
VO-0906	Charley River	65.54500	141.66111	954	85JCR-13	L. Cretaceous	Kathul Gwk	1.67	Underwood et al., 1989
VO-0907	Charley River	65.54583	142.23556	427	MJ90-K39a	L. Cretaceous	Biederman Arg	4.51	USGS [Pawlewicz]
VO-0908	Charley River	65.57667	143.77889	183	DH91-K24b	L. Cretaceous	Biederman Arg	3.20	USGS [Pawlewicz]
VO-0909	Charley River	65.57667	143.77889	183	DH91-K24c	L. Cretaceous	Biederman Arg	3.16	USGS [Pawlewicz]
VO-0910	Charley River	65.58472	141.00278	1128	MJ90-K17a	U. Triassic-L. Cretaceous	Glenn Sh	3.41	USGS [Pawlewicz]
VO-0911	Charley River	65.60528	142.15361	488	UM90-K28a	U. Triassic-L. Cretaceous	Glenn Sh	4.61	USGS [Pawlewicz]
VO-0912	Charley River	65.61000	142.53833	610	MJ90-K41b	U. Triassic-L. Cretaceous	Glenn Sh	4.37	USGS [Pawlewicz]
VO-0913	Charley River	65.61000	142.53833	610	MJ90-K41a	U. Triassic-L. Cretaceous	Glenn Sh	3.94	USGS [Pawlewicz]
VO-0914	Charley River	65.61083	143.20583	381	MJ90-K51b	Paleozoic	Pza map unit	3.57	USGS [Pawlewicz]
VO-0915	Charley River	65.61111	142.32361	853	MJ90-K42a	U. Triassic-L. Cretaceous	Glenn Sh	3.96	USGS [Pawlewicz]
VO-0916	Charley River	65.61333	141.33389	457	MJ90-K22a	L. Cretaceous	Kathul Gwk	1.71	USGS [Pawlewicz]
VO-0917	Charley River	65.61333	141.33389	457	MJ90-K22a	L. Cretaceous	Kathul Gwk	1.71	USGS [Pawlewicz]
VO-0918	Charley River	65.61639	143.20972	488	MJ90-K50	Paleozoic	Pza map unit	3.16	USGS [Pawlewicz]
VO-0919	Charley River	65.62028	142.22306	579	MJ90-K43b	U. Triassic-L. Cretaceous	Glenn Sh	4.25	USGS [Pawlewicz]
VO-0920	Charley River	65.72222	141.17972	488	MJ90-K21b	L. Cretaceous	Kathul Gwk	2.20	USGS [Pawlewicz]
VO-0921	Charley River	65.72306	141.24333	457	MJ90-K20a	L. Cretaceous	Kathul Gwk	2.05	USGS [Pawlewicz]
VO-0922	Charley River	65.75306	141.24778	457	MJ90-K18b	L. Cretaceous	Biederman Arg	2.17	USGS [Pawlewicz]
VO-0923	Chignik	56.018	158.813		84J-56	Eocene	Tolstoi	3.76	Shell Oil Company
VO-0924	Chignik	56.018	158.813		84J-57	Eocene	Tolstoi	4.32	Shell Oil Company
VO-0925	Chignik	56.018	158.813		84J-59	Eocene	Tolstoi	4.33	Shell Oil Company
VO-0926	Chignik	56.025	159.769		81R-41A			0.76	Shell Oil Company
VO-0927	Chignik	56.053	160.261		8+50	Eocene-Oligocene	Stepovak	0.55	Shell Oil Company
VO-0928	Chignik	56.054	159.438		81R-36	Tertiary		0.19	Shell Oil Company
VO-0929	Chignik	56.117	158.658		84J-89	Eocene	Tolstoi	3.95	Shell Oil Company
VO-0930	Chignik	56.117	158.658		84J-90	Eocene	Tolstoi	4.15	Shell Oil Company
VO-0931	Chignik	56.26111	158.73028		16	U. Cretaceous	Chignik Fm	0.62	Merritt, 1986b
VO-0932	Chignik	56.270	158.708		UA 136			0.59	Shell Oil Company
VO-0933	Chignik	56.274	158.220		85S-31	Eocene	Tolstoi	1.77	Shell Oil Company
VO-0934	Chignik	56.28361	158.69611		17	U. Cretaceous	Chignik Fm	0.62	Merritt, 1986b
VO-0935	Chignik	56.285	158.553		84J-76	Eocene		0.80	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0936	Chignik	56.285	158.553		84J-77	Eocene	Tolstoi	0.83	Shell Oil Company
VO-0937	Chignik	56.285	158.553		84J-78	Eocene	Tolstoi	0.80	Shell Oil Company
VO-0938	Chignik	56.285	158.553		84J-79	Eocene	Tolstoi	0.78	Shell Oil Company
VO-0939	Chignik	56.293	158.549		84J-91	Eocene	Tolstoi	0.82	Shell Oil Company
VO-0940	Chignik	56.293	158.549		84J-92	Eocene	Tolstoi	0.85	Shell Oil Company
VO-0941	Chignik	56.293	158.549		84J-93	Eocene	Tolstoi	0.82	Shell Oil Company
VO-0942	Chignik	56.293	158.549		84J-94	Eocene	Tolstoi	0.83	Shell Oil Company
VO-0943	Chignik	56.293	158.549		84J-95	Eocene	Tolstoi	0.79	Shell Oil Company
VO-0944	Chignik	56.293	158.549		84J-96	Eocene	Tolstoi	0.82	Shell Oil Company
VO-0945	Chignik	56.29611	158.66972		18	U. Cretaceous	Chignik Fm	0.67	Merritt, 1986b
VO-0946	Chignik	56.30278	158.67000		19	U. Cretaceous	Chignik Fm	0.64	Merritt, 1986b
VO-0947	Chignik	56.31056	158.54444		20	U. Cretaceous	Chignik Fm	0.82	Merritt, 1986b
VO-0948	Chignik	56.31278	158.54056		21	U. Cretaceous	Chignik Fm	1.01	Merritt, 1986b
VO-0949	Chignik	56.315	158.298		84J-82	Cretaceous	Chignik	1.03	Shell Oil Company
VO-0950	Chignik	56.315	158.298		84J-83	Cretaceous	Chignik	0.94	Shell Oil Company
VO-0951	Chignik	56.315	158.298		84J-84	Cretaceous	Chignik	0.96	Shell Oil Company
VO-0952	Chignik	56.315	158.298		84J-85	Cretaceous	Chignik	0.93	Shell Oil Company
VO-0953	Chignik	56.315	158.298		84J-86	Cretaceous	Chignik	1.01	Shell Oil Company
VO-0954	Chignik	56.315	158.298		84J-87	Cretaceous	Chignik	0.99	Shell Oil Company
VO-0955	Chignik	56.317	158.409		61H103+75	Eocene	Kenai-Oak Hickory	0.41	Shell Oil Company
VO-0956	Chignik	56.317	158.409		61H103+347	Eocene	Kenai-Oak Hickory	0.45	Shell Oil Company
VO-0957	Chignik	56.317	158.409		61H103+25	Eocene	Kenai-Oak Hickory	0.52	Shell Oil Company
VO-0958	Chignik	56.317	158.409		61H104+194	Oligocene	Kenai-Hemlock ss	0.45	Shell Oil Company
VO-0959	Chignik	56.317	158.409		61H104+297	Oligocene	Kenai-Hemlock ss	0.37	Shell Oil Company
VO-0960	Chignik	56.317	158.409		61H106+36	Oligocene	Kenai-Hemlock ss	0.38	Shell Oil Company
VO-0961	Chignik	56.317	158.409		61H1+30	Oligocene	Kenai-Hemlock ss	0.45	Shell Oil Company
VO-0962	Chignik	56.317	158.409		61H3+145	Oligocene	Kenai-Hemlock ss	0.39	Shell Oil Company
VO-0963	Chignik	56.317	158.409		61H3+202	Oligocene	Kenai-Hemlock ss	0.36	Shell Oil Company
VO-0964	Chignik	56.317	158.409		84J-80	Eocene	Tolstoi	2.76	Shell Oil Company
VO-0965	Chignik	56.317	158.409		84J-81	Eocene	Tolstoi	2.78	Shell Oil Company
VO-0966	Chignik	56.31722	158.42528		24	U. Cretaceous	Chignik Fm	1.76	Merritt, 1986b
VO-0967	Chignik	56.32639	158.51417		23	U. Cretaceous	Chignik Fm	0.79	Merritt, 1986b
VO-0968	Chignik	56.328	158.587		0043368	Cretaceous	Chignik	0.52	Chevron
VO-0969	Chignik	56.32861	158.52028		22	U. Cretaceous	Chignik Fm	0.95	Merritt, 1986b
VO-0970	Chignik	56.32861	158.93306		15	U. Cretaceous	Chignik Fm	0.57	Merritt, 1986b
VO-0971	Chignik	56.332	158.559		75X-132A	U. Cretaceous	Chignik	2.64	Shell Oil Company
VO-0972	Chignik	56.344	158.533		75X-133B	U. Cretaceous	Chignik	0.72	Shell Oil Company
VO-0973	Chignik	56.344	158.533		75X-134D	U. Cretaceous	Chignik	0.94	Shell Oil Company
VO-0974	Chignik	56.344	158.533		75X-134G	U. Cretaceous	Chignik	1.25	Shell Oil Company
VO-0975	Chignik	56.344	158.533		75X-134J	U. Cretaceous	Chignik	1.02	Shell Oil Company
VO-0976	Chignik	56.344	158.533		75Y-13	U. Cretaceous	Chignik	0.85	Shell Oil Company
VO-0977	Chignik	56.443	158.614		84J-54	Jurassic	Shelikof	1.60	Shell Oil Company
VO-0978	Chignik	56.444	158.614		81R-101			1.22	Shell Oil Company
VO-0979	Chignik	56.444	158.614		85S-33	M. Jurassic	Sheili	1.60	Shell Oil Company
VO-0980	Chignik	56.45750	158.51222		25	U. Cretaceous	Chignik Fm	0.58	Merritt, 1986b
VO-0981	Chignik	56.460	158.378		81R-102A	L. Cretaceous		0.43	Shell Oil Company
VO-0982	Chignik	56.460	158.378		0033938	Cretaceous	Chignik	0.54	Chevron
VO-0983	Chignik	56.460	158.378		0033938	Cretaceous	Chignik	0.48	Chevron
VO-0984	Chignik	56.46083	158.48972		26	U. Cretaceous	Chignik Fm	0.62	Merritt, 1986b
VO-0985	Chignik	56.463	158.195		75Y-147	Eocene	Tolstoi	3.51	Shell Oil Company
VO-0986	Chignik	56.463	158.195		75Y-148	Eocene	Tolstoi	4.21	Shell Oil Company
VO-0987	Chignik	56.463	158.195		75Y-149	Eocene	Tolstoi	3.78	Shell Oil Company
VO-0988	Chignik	56.463	158.223		75Y-148	Eocene	Tolstoi	4.21	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-0989	Chignik	56.463	158.223		75Y-149-B	Eocene	Tolstoi	3.78	Shell Oil Company
VO-0990	Chignik	56.46306	158.48583		27	U. Cretaceous	Chignik Fm	0.60	Merritt, 1986b
VO-0991	Chignik	56.46417	158.50194		28	U. Cretaceous	Chignik Fm	0.60	Merritt, 1986b
VO-0992	Chignik	56.46528	158.49389		29	U. Cretaceous	Chignik Fm	0.66	Merritt, 1986b
VO-0993	Chignik	56.46750	158.38028		31	U. Cretaceous	Chignik Fm	0.68	Merritt, 1986b
VO-0994	Chignik	56.46972	158.48972		30	U. Cretaceous	Chignik Fm	0.58	Merritt, 1986b
VO-0995	Chignik	56.472	158.685		0033949		Naknek	0.58	Chevron
VO-0996	Chignik	56.487	158.301		84J-42	Cretaceous	Chignik	0.62	Shell Oil Company
VO-0997	Chignik	56.487	158.301		84J-43	Cretaceous	Chignik	0.53	Shell Oil Company
VO-0998	Chignik	56.487	158.301		84J-44	Cretaceous	Chignik	0.66	Shell Oil Company
VO-0999	Chignik	56.487	158.301		84J-45	Cretaceous	Chignik	0.60	Shell Oil Company
VO-1000	Chignik	56.487	158.301		84J-46	Cretaceous	Chignik	0.67	Shell Oil Company
VO-1001	Chignik	56.487	158.301		84J-47	Cretaceous	Chignik	0.61	Shell Oil Company
VO-1002	Chignik	56.487	158.301		84J-48	Cretaceous	Chignik	0.61	Shell Oil Company
VO-1003	Chignik	56.487	158.301		84J-49	Cretaceous	Chignik	0.53	Shell Oil Company
VO-1004	Chignik	56.487	158.301		84J-50	Cretaceous	Chignik	0.65	Shell Oil Company
VO-1005	Chignik	56.487	158.301		84J-51	Cretaceous	Chignik	0.57	Shell Oil Company
VO-1006	Chignik	56.487	158.301		84J-52	Cretaceous	Chignik	0.68	Shell Oil Company
VO-1007	Chignik	56.487	158.301		84J-53	Cretaceous	Chignik	0.52	Shell Oil Company
VO-1008	Chignik	56.487	158.301		75Y-150	Eocene	Tolstoi	0.75	Shell Oil Company
VO-1009	Chignik	56.487	158.301		75Y-151	Eocene	Tolstoi	0.50	Shell Oil Company
VO-1010	Chignik	56.487	158.301		85S-39A	U. Cretaceous	Chignik	0.62	Shell Oil Company
VO-1011	Chignik	56.487	158.301		85S-41B (KC)	U. Cretaceous	Chignik	0.53	Shell Oil Company
VO-1012	Chignik	56.487	158.301		85S-41B (RM)	U. Cretaceous	Chignik	0.66	Shell Oil Company
VO-1013	Chignik	56.487	158.301		85S-41C (KC)	U. Cretaceous	Chignik	0.60	Shell Oil Company
VO-1014	Chignik	56.487	158.301		85S-41C (RM)	U. Cretaceous	Chignik	0.67	Shell Oil Company
VO-1015	Chignik	56.487	158.301		85S-41D	U. Cretaceous	Chignik	0.61	Shell Oil Company
VO-1016	Chignik	56.487	158.301		85S-41G (KC)	U. Cretaceous	Chignik	0.53	Shell Oil Company
VO-1017	Chignik	56.487	158.301		85S-41G (RM)	U. Cretaceous	Chignik	0.65	Shell Oil Company
VO-1018	Chignik	56.487	158.301		85S-41H	U. Cretaceous	Chignik	0.68	Shell Oil Company
VO-1019	Chignik	56.487	158.301		85S-41I	U. Cretaceous	Chignik	0.62	Shell Oil Company
VO-1020	Chignik	56.487	158.327		84J-88	Eocene	Tolstoi	0.53	Shell Oil Company
VO-1021	Chignik	56.488	158.327		75Y-152	Eocene	Tolstoi	0.45	Shell Oil Company
VO-1022	Chignik	56.488	158.327		75Y-152	Paleocene-M. Eocene	Tolstoi	0.53	Shell Oil Company
VO-1023	Chignik	56.490	158.734		0033948		Bearl	2.52	Chevron
VO-1024	Chignik	56.54500	158.29861		32	U. Cretaceous	Chignik Fm	0.69	Merritt, 1986b
VO-1025	Chignik	56.54611	158.29250		33	U. Cretaceous	Chignik Fm	0.70	Merritt, 1986b
VO-1026	Chignik	56.54833	158.28639		34	U. Cretaceous	Chignik Fm	0.71	Merritt, 1986b
VO-1027	Chignik	56.54944	158.29250		36	U. Cretaceous	Chignik Fm	0.60	Merritt, 1986b
VO-1028	Chignik	56.55167	158.28833		35	U. Cretaceous	Chignik Fm	0.78	Merritt, 1986b
VO-1029	Chignik	56.55389	158.27611		38	U. Cretaceous	Chignik Fm	0.65	Merritt, 1986b
VO-1030	Chignik	56.55500	158.28417		37	U. Cretaceous	Chignik Fm	0.66	Merritt, 1986b
VO-1031	Chignik	56.55611	158.27806		39	U. Cretaceous	Chignik Fm	0.65	Merritt, 1986b
VO-1032	Chignik	56.57167	158.44694		40	U. Cretaceous	Chignik Fm	0.70	Merritt, 1986b
VO-1033	Chignik	56.601	158.255		75X-140A	U. Cretaceous	Hoodoo	0.73	Shell Oil Company
VO-1034	Chignik	56.601	158.255		75X-140H	U. Cretaceous	Hoodoo	0.80	Shell Oil Company
VO-1035	Chignik	56.601	158.255		75X-140L	Eocene	Tolstoi	0.58	Shell Oil Company
VO-1036	Chignik	56.601	158.255		75X-140M	Eocene	Tolstoi	0.59	Shell Oil Company
VO-1037	Chignik	56.601	158.302		75X-139A	U. Cretaceous	Chignik	0.73	Shell Oil Company
VO-1038	Chignik	56.601	158.302		75X-139B	U. Cretaceous	Chignik	0.70	Shell Oil Company
VO-1039	Chignik	56.602	158.349		0033950	Eocene	Tolstoi	0.51	Chevron
VO-1040	Chignik	56.619	158.300		81R-103B+500	U. Cretaceous	Hoodoo	0.61	Shell Oil Company
VO-1041	Chignik	56.619	158.300		81R-103I+360	U. Cretaceous	Hoodoo	0.64	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1042	Chignik	56.619	158.300		81R-103T+140	U. Cretaceous	Hoodoo	0.66	Shell Oil Company
VO-1043	Chignik	56.619	158.300		81R-103AA+0	U. Cretaceous	Hoodoo	0.74	Shell Oil Company
VO-1044	Chignik	56.619	158.300		81R-104		Kuh	0.62	Shell Oil Company
VO-1045	Chignik	56.619	158.300		81R-105		Kuh	0.27	Shell Oil Company
VO-1046	Chignik	56.619	158.323		81R-106B		Tet?	0.59	Shell Oil Company
VO-1047	Chignik	56.627	158.218		111	Paleocene-M. Eocene	Tolstoi	0.93	Shell Oil Company
VO-1048	Chignik	56.627	158.218		0033946	U. Cretaceous	Hoodoo	0.57	Chevron
VO-1049	Chignik	56.645	158.194		84J-74	Eocene	Tolstoi	0.65	Shell Oil Company
VO-1050	Chignik	56.645	158.194		84J-75	Eocene	Tolstoi	0.64	Shell Oil Company
VO-1051	Chignik	56.645	158.194		81R-123D	Tertiary	Tet	0.44	Shell Oil Company
VO-1052	Chignik	56.645	158.194		81R-123E		Tet	0.61	Shell Oil Company
VO-1053	Chignik	56.645	158.194		81R-123F		Tet	0.62	Shell Oil Company
VO-1054	Chignik	56.645	158.194		81R-123L		Tet	1.15	Shell Oil Company
VO-1055	Chignik	56.645	158.194		81R-124		Tet	0.53	Shell Oil Company
VO-1056	Chignik	56.791	158.197		0033930	Eocene	Tolstoi	0.62	Chevron
VO-1057	Circle	65.74833	145.61500	320	84AST58	Tertiary		0.40	PGS - Record # 500659500500000010
VO-1058	Circle	65.74861	145.60416	305	83PAD131	Tertiary		0.41	PGS - Record # 500659500400000010
VO-1059	Circle	65.74861	145.60416	305	83PAD127	Tertiary		0.43	PGS - Record # 500659500400000030
VO-1060	Cold Bay	55.115	162.078		0041312		Belko	1.06	Chevron
VO-1061	Cordova	60.002	144.390		75K-1-50	Miocene	Poul Creek	0.35	Shell Oil Company
VO-1062	Cordova	60.002	144.390		75K-1-175	Miocene	Poul Creek	0.36	Shell Oil Company
VO-1063	Cordova	60.002	144.390		75K-1-220	Oligocene	Split Creek	0.38	Shell Oil Company
VO-1064	Cordova	60.002	144.390		75K-1-362	Pliocene	Yakatata	0.35	Shell Oil Company
VO-1065	Cordova	60.003	144.203		0040226	Oligocene	Katalla	0.47	Chevron
VO-1066	Cordova	60.003	144.218		79-R-8	U. Eocene	Tokun?	0.65	Shell Oil Company
VO-1067	Cordova	60.003	144.218		71E-5-1+1210	U. Eocene-Oligocene	Poul Creek	0.69	Shell Oil Company
VO-1068	Cordova	60.137	144.353		72C-9-40	Pliocene	Yakatata	0.51	Shell Oil Company
VO-1069	Cordova	60.137	144.353		72C-9-160	Pliocene	Yakatata	0.51	Shell Oil Company
VO-1070	Cordova	60.137	144.353		72C-9-320	Pliocene	Yakatata	0.49	Shell Oil Company
VO-1071	Cordova	60.137	144.353		72C-9-480	Miocene	Poul Creek	0.78	Shell Oil Company
VO-1072	Cordova	60.137	144.353		72C-9-660	Miocene	Poul Creek	0.40	Shell Oil Company
VO-1073	Cordova	60.137	144.353		72C-9-800	Miocene	Poul Creek	0.38	Shell Oil Company
VO-1074	Cordova	60.173	144.242		68A 36	U. Eocene-Oligocene	Poul Creek	0.81	Shell Oil Company
VO-1075	Cordova	60.183	144.238		0040229	Oligocene	Katalla	0.47	Chevron
VO-1076	Cordova	60.185	144.583		80R9A	Paleocene?	Stillwater	1.92	Shell Oil Company
VO-1077	Cordova	60.185	144.583		80R9B	Paleocene?	Stillwater	1.53	Shell Oil Company
VO-1078	Cordova	60.19250	144.60833	0	80AMH 178A	Paleocene	Orca Gp	1.16	PGS - Record # 500699501200000010
VO-1079	Cordova	60.19805	144.62222	0	80AMH 176C	Paleocene	Orca Gp	1.88	PGS - Record # 500699501100000010
VO-1080	Cordova	60.21055	144.36944	0	80AMH 181A	Miocene	Redwood Fm	0.51	PGS - Record # 500699501400000010
VO-1081	Cordova	60.215	144.580		72H-6	Paleocene-Eocene	Orca	2.78	Shell Oil Company
VO-1082	Cordova	60.21611	144.36583	0	80AMH 180A	Miocene	Redwood Fm	0.53	PGS - Record # 500699501300000010
VO-1083	Cordova	60.21944	144.37000	0	801MU 69	Miocene	Redwood Fm	0.59	PGS - Record # 500699500700000010
VO-1084	Cordova	60.22027	144.35555	0	80AMH 179A	Miocene	Redwood Fm	0.57	PGS - Record # 500699501600000010
VO-1085	Cordova	60.22166	144.36805	0	80AMU 68	Miocene	Redwood Fm	0.59	PGS - Record # 500699500600000010
VO-1086	Cordova	60.223	144.242		72D-137B	Miocene-Oligocene	Poul Creek	0.84	Shell Oil Company
VO-1087	Cordova	60.223	144.242		72D-137D	Miocene-Oligocene	Poul Creek	0.86	Shell Oil Company
VO-1088	Cordova	60.223	144.242		0040220	Oligocene	Katalla	1.19	Chevron
VO-1089	Cordova	60.223	144.242		0040220	Oligocene	Katalla	1.12	Chevron
VO-1090	Cordova	60.223	144.242		0040220	Oligocene	Katalla	1.05	Chevron
VO-1091	Cordova	60.223	144.242		0040232	Oligocene	Katalla	0.89	Chevron
VO-1092	Cordova	60.223	144.242		0040232	Oligocene	Katalla	0.83	Chevron
VO-1093	Cordova	60.223	144.300		0040221	Oligocene	Katalla	0.92	Chevron
VO-1094	Cordova	60.223	144.300		0040221	Oligocene	Katalla	0.96	Chevron

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1095	Cordova	60.227	144.330		63-APR-70	Tertiary	Yakataga	0.58	Shell Oil Company
VO-1096	Cordova	60.227	144.330		63-APR-71	Tertiary	Yakataga	0.70	Shell Oil Company
VO-1097	Cordova	60.227	144.330		63-APR-73	Tertiary	Yakataga	0.60	Shell Oil Company
VO-1098	Cordova	60.227	144.330		63-APR-79	Tertiary	Poul Creek?	0.56	Shell Oil Company
VO-1099	Cordova	60.227	144.330		63-APR-80	Tertiary	Poul Creek?	0.56	Shell Oil Company
VO-1100	Cordova	60.227	144.330		63-APR-85	Tertiary	Poul Creek?	0.64	Shell Oil Company
VO-1101	Cordova	60.227	144.330		63-APR-86	Tertiary	Poul Creek?	0.66	Shell Oil Company
VO-1102	Cordova	60.227	144.330		63-APR-90	Tertiary	Poul Creek?	0.62	Shell Oil Company
VO-1103	Cordova	60.227	144.330		63-APR-91	Tertiary	Poul Creek?	0.69	Shell Oil Company
VO-1104	Cordova	60.227	144.330		63-APR-92	Tertiary	Poul Creek?	0.67	Shell Oil Company
VO-1105	Cordova	60.227	144.330		63-APR-93	Tertiary	Poul Creek	0.59	Shell Oil Company
VO-1106	Cordova	60.227	144.330		71E8-2	Miocene-Oligocene	Poul Creek	0.69	Shell Oil Company
VO-1107	Cordova	60.227	144.330		72D114+150	Miocene-Oligocene	Poul Creek	0.51	Shell Oil Company
VO-1108	Cordova	60.227	144.330		72D114+0	Miocene-Oligocene	Poul Creek	0.63	Shell Oil Company
VO-1109	Cordova	60.227	144.330		72D114-60	Miocene-Oligocene	Poul Creek	0.61	Shell Oil Company
VO-1110	Cordova	60.227	144.330		72D113+327	Miocene-Oligocene	Poul Creek	0.57	Shell Oil Company
VO-1111	Cordova	60.227	144.330		72D113+299	Miocene-Oligocene	Poul Creek	0.52	Shell Oil Company
VO-1112	Cordova	60.227	144.330		72D113+35	Miocene-Oligocene	Poul Creek	0.54	Shell Oil Company
VO-1113	Cordova	60.227	144.330		62J225A	Miocene-Oligocene	Poul Creek	0.50	Shell Oil Company
VO-1114	Cordova	60.227	144.330		62J225B	Miocene-Oligocene	Poul Creek	0.60	Shell Oil Company
VO-1115	Cordova	60.227	144.330		62J225C	Miocene-Oligocene	Poul Creek	0.52	Shell Oil Company
VO-1116	Cordova	60.227	144.330		62J225E	Miocene-Oligocene	Poul Creek	0.41	Shell Oil Company
VO-1117	Cordova	60.227	144.330		62J225A (1968)	Oligocene	Katalla	0.50	Shell Oil Company
VO-1118	Cordova	60.227	144.330		62J225B (1968)	Oligocene	Katalla	0.75	Shell Oil Company
VO-1119	Cordova	60.227	144.330		62J225C (1968)	Oligocene	Katalla	0.48	Shell Oil Company
VO-1120	Cordova	60.227	144.330		62J225E (1968)	Oligocene	Katalla	0.65	Shell Oil Company
VO-1121	Cordova	60.227	144.390		0040219	Oligocene	Katalla	0.79	Chevron
VO-1122	Cordova	60.23138	144.32833	0	80AMU 61	Miocene		0.49	PGS - Record # 50069950020000010
VO-1123	Cordova	60.23777	144.32166	0	80AMH 193A	Miocene		0.68	PGS - Record # 50069950090000010
VO-1124	Cordova	60.25916	144.47777	0	80AMU 67	Miocene		0.80	PGS - Record # 50069950050000010
VO-1125	Cordova	60.268	144.502		72H-5	Paleocene-Eocene		2.16	Shell Oil Company
VO-1126	Cordova	60.31250	144.48055	0	80AMU 65	Oligocene	Tokun Fm	0.94	PGS - Record # 50069950030000010
VO-1127	Cordova	60.313	144.340		71E-8-2	Miocene	Poul Creek	0.69	Shell Oil Company
VO-1128	Cordova	60.31583	144.50833	0	80AMU 66	Eocene	Stillwater Fm	2.09	PGS - Record # 50069950040000010
VO-1129	Cordova	60.327	144.270		72D-140	Eocene	Kushtaka-Kulthieth	1.36	Shell Oil Company
VO-1130	Cordova	60.34527	144.39472	0	80AMH 194A	Oligocene	Tokun Fm	1.77	PGS - Record # 50069950100000010
VO-1131	Cordova	60.383	144.177		V-1185	Eocene	Kulthieth	1.89	Shell Oil Company
VO-1132	Cordova	60.39056	144.17250	244	K-81 10-1	Tertiary	Kushtaka Fm	1.98	Smith and Rao, 1986
VO-1133	Cordova	60.39056	144.17250	244	K-81 10-3	Tertiary	Kushtaka Fm	1.88	Smith and Rao, 1986
VO-1134	Cordova	60.39111	144.17139	274	K-81 9	Tertiary	Kushtaka Fm	1.81	Smith and Rao, 1986
VO-1135	Cordova	60.39194	144.17083	274	K-81 8-1	Tertiary	Kushtaka Fm	1.89	Smith and Rao, 1986
VO-1136	Cordova	60.39194	144.17083	274	K-81 8-3	Tertiary	Kushtaka Fm	1.83	Smith and Rao, 1986
VO-1137	Cordova	60.39333	144.16889	274	K-81 6-1	Tertiary	Kushtaka Fm	1.79	Smith and Rao, 1986
VO-1138	Cordova	60.39333	144.16889	274	K-81 6-2	Tertiary	Kushtaka Fm	1.82	Smith and Rao, 1986
VO-1139	Cordova	60.39333	144.16889	274	K-81 6-5	Tertiary	Kushtaka Fm	1.90	Smith and Rao, 1986
VO-1140	Cordova	60.39417	144.16778	274	K-81 5-1	Tertiary	Kushtaka Fm	1.66	Smith and Rao, 1986
VO-1141	Cordova	60.39417	144.16778	274	K-81 5-2	Tertiary	Kushtaka Fm	1.66	Smith and Rao, 1986
VO-1142	Cordova	60.39528	144.16722	305	K-81 4	Tertiary	Kushtaka Fm	1.89	Smith and Rao, 1986
VO-1143	Cordova	60.39667	144.16556	305	K-81 2-2	Tertiary	Kushtaka Fm	1.89	Smith and Rao, 1986
VO-1144	Cordova	60.39667	144.16556	305	K-81 2-3	Tertiary	Kushtaka Fm	2.07	Smith and Rao, 1986
VO-1145	Cordova	60.39722	144.16444	335	K-81 1	Tertiary	Kushtaka Fm	1.80	Smith and Rao, 1986
VO-1146	Cordova	60.40916	144.15361	0	80AMU 90-D	Eocene	Kulthieth Fm	1.25	PGS - Record # 50069950080000010
VO-1147	Cordova	60.413	144.153		80R-10A	Eocene	Kulthieth	1.67	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1148	Cordova	60.413	144.153		80R-10B	Eocene	Kulthieth	1.59	Shell Oil Company
VO-1149	Cordova	60.413	144.153		80R-10C	Eocene	Kulthieth	1.56	Shell Oil Company
VO-1150	Cordova	60.413	144.275		72D-132B	Oligocene	Poul Creek	1.52	Shell Oil Company
VO-1151	Cordova	60.415	144.042		72D-146+2100	Eocene	Kushtaka-Kulthieth	1.96	Shell Oil Company
VO-1152	Cordova	60.415	144.042		72D-146+2030	Eocene	Kushtaka-Kulthieth	1.89	Shell Oil Company
VO-1153	Cordova	60.415	144.042		72D-146+2000	Eocene	Kushtaka-Kulthieth	1.93	Shell Oil Company
VO-1154	Cordova	60.415	144.042		72D-146+50A	Eocene	Kushtaka-Kulthieth	1.50	Shell Oil Company
VO-1155	Cordova	60.415	144.042		72D-146-500	Eocene	Kushtaka-Kulthieth	1.54	Shell Oil Company
VO-1156	Cordova	60.415	144.042		72D-146-1985	Eocene	Kushtaka-Kulthieth	2.03	Shell Oil Company
VO-1157	Cordova	60.415	144.042		72D-146-2000	Eocene	Kushtaka-Kulthieth	2.02	Shell Oil Company
VO-1158	Cordova	60.415	144.042		72D-146-2450	Eocene	Kushtaka-Kulthieth	1.83	Shell Oil Company
VO-1159	Cordova	60.415	144.042		72D-146+2030 (1975)	L. Miocene-Oligocene	Poul Creek	0.87	Shell Oil Company
VO-1160	Cordova	60.415	144.042		72D-146-50 (1975)	L. Miocene-Oligocene	Poul Creek	0.84	Shell Oil Company
VO-1161	Cordova	60.415	144.042		72D-146-500 (1975)	L. Miocene-Oligocene	Poul Creek	0.92	Shell Oil Company
VO-1162	Cordova	60.415	144.042		72D-146-1985 (1975)	Oligocene-Eocene	Kulthieth	1.75	Shell Oil Company
VO-1163	Cordova	60.415	144.042		72D-146-2000 (1975)	Oligocene-Eocene	Kulthieth	1.78	Shell Oil Company
VO-1164	Cordova	60.415	144.042		72D-146-2450 (1975)	Oligocene-Eocene	Kulthieth	1.71	Shell Oil Company
VO-1165	Cordova	60.42139	144.05806	152	K-81 15	Tertiary	Kushtaka Fm	1.76	Smith and Rao, 1986
VO-1166	Cordova	60.42639	144.05639	244	K-81 17-1	Tertiary	Kushtaka Fm	1.63	Smith and Rao, 1986
VO-1167	Cordova	60.42639	144.05639	244	K-81 17-2	Tertiary	Kushtaka Fm	1.86	Smith and Rao, 1986
VO-1168	Cordova	60.442	144.027		80R-13A	Eocene	Kulthieth	2.33	Shell Oil Company
VO-1169	Cordova	60.442	144.027		80R-13B	Eocene	Kulthieth	2.37	Shell Oil Company
VO-1170	Cordova	60.483	144.500		80R-15	Eocene	Kulthieth	2.50	Shell Oil Company
VO-1171	Cordova	60.483	144.520		72H-7	Paleocene-Eocene	Orca	3.69	Shell Oil Company
VO-1172	Cordova	60.483	144.520		72H-7 (1980)	Paleocene-Eocene	Orca	2.67	Shell Oil Company
VO-1173	Cordova	60.93972	144.33333	0	80AMU 76	Miocene	Yakataga Fm	0.50	PGS - Record # 50069950180000010
VO-1174	Cordova	60.93972	144.33333	0	80AMU 72	Miocene	Yakataga Fm	0.51	PGS - Record # 50069950170000010
VO-1175	Cordova	60.970	146.713		64 APR 255C	Paleocene	Orca	4.26	Shell Oil Company
VO-1176	De Long Mountains	68.10138	162.57222		81TN34GX2	Devonian-Mississippian	Kanayut Cong	2.01	PGS - Record # 50073950220000020
VO-3815	De Long Mountains	68.52900	163.26600		MULL, GIL - 96 Mu 57		Kukpowruk River	1.46	USGS [Pawlewicz]
VO-3816	De Long Mountains	68.52900	163.26600		MULL, GIL - 96 Mu 57-1	Triassic-Jurassic	Otuk-Kukpowruk River marl	0.82	USGS [Pawlewicz]
VO-3817	De Long Mountains	68.52900	163.26600		MULL, GIL - 96 Mu 57-3	Triassic-Jurassic	Otuk-Kukpowruk River	0.84	USGS [Pawlewicz]
VO-3818	De Long Mountains	68.52900	163.26600		MULL, GIL - 96 Mu 57-4		Kukpowruk River	1.08	USGS [Pawlewicz]
VO-3841	De Long Mountains	68.52900	163.26600		MULL, GIL - 96 Ha 92	Cretaceous	Torok-Kukpowruk River shale	1.19	USGS [Pawlewicz]
VO-1177	De Long Mountains	68.53249	163.53305	739	80AMK 192B	Cretaceous	Fortress Mountain Fm	1.10	PGS - Record # 50073950200000010
VO-3860	De Long Mountains	68.55400	163.69600		MULL, GIL - 96 Mu 28-5		CQUN-Unit 57	1.24	USGS [Pawlewicz]
VO-3837	De Long Mountains	68.56600	163.43200		MULL, GIL - 96 Ha 62	Cretaceous	Torok-Sooner/Kukpowruk R. shal	1.30	USGS [Pawlewicz]
VO-3799	De Long Mountains	68.59500	164.42500		MULL, GIL - 94 Mu 72-1		Ipewik River	0.27	USGS [Pawlewicz]
VO-3828	De Long Mountains	68.59600	163.83500		MULL, GIL - 96 Ha 33			1.94	USGS [Pawlewicz]
VO-3829	De Long Mountains	68.59800	163.84800		MULL, GIL - 96 Ha 34	Jurassic	Kingak-Pitmegea Trib	1.23	USGS [Pawlewicz]
VO-3813	De Long Mountains	68.60000	164.70000		MULL, GIL - 96 Mu 53			0.80	USGS [Pawlewicz]
VO-3848	De Long Mountains	68.60400	164.54500		MULL, GIL - 96 TM 45-A			0.75	USGS [Pawlewicz]
VO-3849	De Long Mountains	68.60400	164.54500		MULL, GIL - 96 TM 45-B		Ipewik River	0.72	USGS [Pawlewicz]
VO-3830	De Long Mountains	68.60800	163.85700		MULL, GIL - 96 Ha 37	Jurassic	Kingak	1.26	USGS [Pawlewicz]
VO-3812	De Long Mountains	68.61100	164.17800		MULL, GIL - 96 Mu 52-1	Jurassic	Kingak-Horseshoe Bend	0.67	USGS [Pawlewicz]
VO-3811	De Long Mountains	68.61300	164.17800		MULL, GIL - 96 Mu 52	Jurassic	Kingak-Horseshoe Bend	1.30	USGS [Pawlewicz]
VO-3835	De Long Mountains	68.61700	163.80100		MULL, GIL - 96 Ha 56	Cretaceous	Torok-Upper Pitmegea R. sandsto	1.53	USGS [Pawlewicz]
VO-3831	De Long Mountains	68.61700	163.84900		MULL, GIL - 96 Ha 39	Jurassic	Kingak-Pitmegea tributary	1.45	USGS [Pawlewicz]
VO-3836	De Long Mountains	68.62200	163.83600		MULL, GIL - 96 Ha 58	Cretaceous	Torok-Upper Pitmegea	1.44	USGS [Pawlewicz]
VO-3847	De Long Mountains	68.62300	164.56200		MULL, GIL - 96 TM 44-A	Jurassic	Kingak-Ipewik River	0.64	USGS [Pawlewicz]
VO-3897	De Long Mountains	68.62678	164.62728		BURRUSS, ROBERT - 98DH3		Harris Gulch	0.64	USGS [Pawlewicz]
VO-3832	De Long Mountains	68.62900	163.85300		MULL, GIL - 96 Ha 40	Jurassic	Kingak-Pitmegea Trib	0.88	USGS [Pawlewicz]
VO-1178	De Long Mountains	68.63333	164.58749		68-41F	Jurassic	Ipewik Unit	0.33	PGS - Record # 50073950210000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3795	De Long Mountains	68.63400	163.86100		MULL, GIL - 96 Mu 30	Jurassic	Kingak-Pitmegea trib	0.73	USGS [Pawlewicz]
VO-3850	De Long Mountains	68.63900	164.73900		MULL, GIL - 96 TM 46-B		Unknown-Thetis Creek	0.80	USGS [Pawlewicz]
VO-3806	De Long Mountains	68.64000	164.04000		MULL, GIL - 96 Mu 42	Cretaceous	Torok-lower Iiligluruk Ck	1.29	USGS [Pawlewicz]
VO-3851	De Long Mountains	68.64500	164.74600		MULL, GIL - 96 TM 48-C	Jurassic	Kingak-Thetis Creek	0.74	USGS [Pawlewicz]
VO-3852	De Long Mountains	68.65000	164.75100		MULL, GIL - 96 TM 49-A	Jurassic	Kingak-Thetis Creek	0.89	USGS [Pawlewicz]
VO-3859	De Long Mountains	68.65100	164.75100		MULL, GIL - 94 Mu 65-U3		CQUN-Green shale	1.47	USGS [Pawlewicz]
VO-3893	De Long Mountains	68.65100	164.75100		MULL, GIL - 94 Mu 65-A		Thetis Creek	0.94	USGS [Pawlewicz]
VO-3807	De Long Mountains	68.66700	164.05500		MULL, GIL - 96 Mu 43	Cretaceous	Torok-Pitmegea Trib	0.71	USGS [Pawlewicz]
VO-3796	De Long Mountains	68.66700	164.76800		MULL, GIL - 96 Mu 33		Thetis Creek	0.86	USGS [Pawlewicz]
VO-3797	De Long Mountains	68.66700	164.76800		MULL, GIL - 96 Mu 33-1	Jurassic	Kingak-Thetis Creek	0.94	USGS [Pawlewicz]
VO-3798	De Long Mountains	68.67200	164.78000		MULL, GIL - 96 Mu 33-5		Thetis Creek	0.79	USGS [Pawlewicz]
VO-3814	De Long Mountains	68.68100	163.54000		MULL, GIL - 96 Mu 54		Upper Pitmegea	1.06	USGS [Pawlewicz]
VO-3800	De Long Mountains	68.68100	164.60900		MULL, GIL - 96 Mu 35-2		Thetis Ridge	0.43	USGS [Pawlewicz]
VO-3801	De Long Mountains	68.68500	164.59500		MULL, GIL - 96 Mu 35-4	Cretaceous	Torok-Thetis Ridge	0.72	USGS [Pawlewicz]
VO-3833	De Long Mountains	68.69400	164.54100		MULL, GIL - 96 Ha 45	Cretaceous	Torok-NE of Thetis ridge	0.84	USGS [Pawlewicz]
VO-3788	De Long Mountains	68.73400	163.07600		MULL, GIL - 96 Mu 13	Cretaceous	Torok-Eagle Creek mudstone	1.17	USGS [Pawlewicz]
VO-3822	De Long Mountains	68.73800	163.08700		MULL, GIL - 96 Ha 21	Cretaceous	Torok-Eagle creek	1.14	USGS [Pawlewicz]
VO-1180	De Long Mountains	68.74000	163.88444		77ACH27A [Pitmegea syncline]			0.63	PGS - Record # 500739500200000020
VO-1179	De Long Mountains	68.74083	163.88639	335	77ACH27 [Pitmegea syncline]	Cretaceous	Corwin Fm	0.59	PGS - Record # 500739500200000010
VO-1181	De Long Mountains	68.75639	163.91056	244	77ACH20 [Pitmegea syncline]	Cretaceous	Torok Fm	0.69	PGS - Record # 500739500200000040
VO-3821	De Long Mountains	68.76000	163.12400		MULL, GIL - 96 Ha 20	Cretaceous	Torok-Eagle creek	0.96	USGS [Pawlewicz]
VO-3787	De Long Mountains	68.77300	163.15500		MULL, GIL - 96 Mu 12	Cretaceous	Torok-Kukpowruk River	1.17	USGS [Pawlewicz]
VO-1188	De Long Mountains	68.77639	163.95111		77ACH 8 [Dugout syncline]			0.79	PGS - Record # 500739500300000040
VO-1182	De Long Mountains	68.78139	162.95556	488	77AAH189 [Igloo Mountain]	Cretaceous	Torok Fm	0.71	PGS - Record # 500739500700000070
VO-1184	De Long Mountains	68.78500	162.94917		77AAH195 [Igloo Mountain]			0.87	PGS - Record # 500739500700000020
VO-1183	De Long Mountains	68.78694	162.94194	732	77AAH197 [Igloo Mountain]	Cretaceous	Kukpowruk Fm	0.88	PGS - Record # 500739500700000010
VO-3905	De Long Mountains	68.79005	164.06160		HOUSEKNECHT, DAVID - 98DH-23		Dugout 1	0.96	USGS [Pawlewicz]
VO-3906	De Long Mountains	68.79053	164.00445		HOUSEKNECHT, DAVID - 98DH-27		Dugout 2	0.93	USGS [Pawlewicz]
VO-1197	De Long Mountains	68.79722	163.12083		77AAH 83 [Coke Basin]			0.85	PGS - Record # 500739500600000080
VO-3907	De Long Mountains	68.79917	164.02217		HOUSEKNECHT, DAVID - 98DH-29		Dugout 3	0.93	USGS [Pawlewicz]
VO-3922	De Long Mountains	68.80466	164.79101		BIRD, KEN - 98TM-376D		Thetis Creek area	0.66	USGS [Pawlewicz]
VO-1185	De Long Mountains	68.80778	163.96139	183	77ACH 1 [Dugout syncline]	Cretaceous	Torok Fm	0.85	PGS - Record # 500739500300000070
VO-1189	De Long Mountains	68.80861	163.95944		77ACH 4 [Dugout syncline]			0.89	PGS - Record # 500739500300000060
VO-1187	De Long Mountains	68.81056	163.94528		77ACH12 [Dugout syncline]			0.78	PGS - Record # 500739500300000030
VO-1186	De Long Mountains	68.81500	163.93583		77ACH16 [Dugout syncline]			0.66	PGS - Record # 500739500300000020
VO-3903	De Long Mountains	68.82043	163.19495		HOUSEKNECHT, DAVID - 98DH-18		Coke 2	0.88	USGS [Pawlewicz]
VO-3904	De Long Mountains	68.82065	163.17838		HOUSEKNECHT, DAVID - 98DH-20		Coke 3	0.86	USGS [Pawlewicz]
VO-1196	De Long Mountains	68.83972	163.07667		77AAH 90 [Coke Basin]			0.90	PGS - Record # 500739500600000060
VO-1190	De Long Mountains	68.84888	163.86111		77AAH 65 [Starved section]			0.79	PGS - Record # 500739500500000030
VO-1191	De Long Mountains	68.84888	163.86111	213	77AAH 64 [Starved section]	Cretaceous	Torok Fm	0.81	PGS - Record # 500739500500000040
VO-1195	De Long Mountains	68.84944	163.09500		77AAH 93 [Coke Basin]			0.86	PGS - Record # 500739500600000040
VO-1194	De Long Mountains	68.85417	163.10222		77AAH 94 [Coke Basin]			0.90	PGS - Record # 500739500600000030
VO-3902	De Long Mountains	68.85616	163.20000		HOUSEKNECHT, DAVID - 98DH-16		Coke 1	0.84	USGS [Pawlewicz]
VO-1193	De Long Mountains	68.86000	163.11111		77AAH 95 [Coke Basin]			0.93	PGS - Record # 500739500600000020
VO-1192	De Long Mountains	68.86361	163.86111	244	77AAH 72 [Starved section]	Cretaceous	Kukpowruk Fm	0.74	PGS - Record # 500739500500000010
VO-1198	De Long Mountains	68.89250	164.69944		SS70-W19	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-1199	De Long Mountains	68.89250	164.83639		SS70-W32A	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-1200	De Long Mountains	68.89250	164.83639		SS70-32B	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-1201	De Long Mountains	68.89250	164.83639		SS70-W32C	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-1202	De Long Mountains	68.89250	164.83639		SS70-W33V	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-1203	De Long Mountains	68.89250	164.83639		SS70-W33M	Cretaceous	Nanushuk Gp	0.59	Rao and Smith, 1983
VO-1204	De Long Mountains	68.89250	164.83639		SS70-W33L	Cretaceous	Nanushuk Gp	0.64	Rao and Smith, 1983
VO-1205	De Long Mountains	68.89250	164.84889		SS70-W30A	Cretaceous	Nanushuk Gp	0.61	Rao and Smith, 1983

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1206	De Long Mountains	68.89250	164.84889		SS70-W30B	Cretaceous	Nanushuk Gp	0.52	Rao and Smith, 1983
VO-1207	De Long Mountains	68.89250	164.84889		SS70-W30C	Cretaceous	Nanushuk Gp	0.51	Rao and Smith, 1983
VO-1208	De Long Mountains	68.89250	164.84889		SS70-W30D	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-1209	De Long Mountains	68.89250	164.84889		SS70-W30E	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-1210	De Long Mountains	68.89361	164.81472		SS70-W31A	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-1211	De Long Mountains	68.89361	164.81472		SS70-W31B	Cretaceous	Nanushuk Gp	0.55	Rao and Smith, 1983
VO-1212	De Long Mountains	68.89472	164.79917		SS70-W29	Cretaceous	Nanushuk Gp	0.49	Rao and Smith, 1983
VO-1213	De Long Mountains	68.89583	164.77722		SS70-W28	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-1214	De Long Mountains	68.89694	164.77417		SS70-W27	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-1215	De Long Mountains	68.89806	164.75556		SS70-W17	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3900	De Long Mountains	68.90682	163.32233		HOUSEKNECHT, DAVID - 98DH-5		Tree stump Turbidite	1.00	USGS [Pawlewicz]
VO-3908	De Long Mountains	68.92510	163.03453		HOUSEKNECHT, DAVID - 98DH-34		Tupikchak	0.98	USGS [Pawlewicz]
VO-3909	De Long Mountains	68.92510	163.03453		HOUSEKNECHT, DAVID - 98DH-38		Tupikchak	0.87	USGS [Pawlewicz]
VO-3910	De Long Mountains	68.92510	163.03453		HOUSEKNECHT, DAVID - 98DH-40		Tupikchak	0.88	USGS [Pawlewicz]
VO-1216	De Long Mountains	68.96306	162.84500		77ACH63 [Tupikchk syncline]			0.69	PGS - Record # 500739500100000020
VO-1217	De Long Mountains	68.96472	162.84417		77ACH62 [Tupikchk syncline]			0.69	PGS - Record # 500739500100000030
VO-1225	De Long Mountains	68.96528	163.84083		AH73-29	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-1218	De Long Mountains	68.97139	162.80500		77ACH60 [Tupikchk syncline]			0.71	PGS - Record # 500739500100000050
VO-1226	De Long Mountains	68.97222	163.93139		AH73-31A	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-1227	De Long Mountains	68.97222	163.93139		AH73-31B	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-1228	De Long Mountains	68.97250	163.84417		UA-46	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-1229	De Long Mountains	68.97722	163.85611		UA-47	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-1230	De Long Mountains	68.97722	163.85611		UA-48	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-1219	De Long Mountains	68.98222	162.80000		77ACH56 [Tupikchk syncline]			0.80	PGS - Record # 500739500100000080
VO-1231	De Long Mountains	68.98778	163.86917		AH73-32	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-1232	De Long Mountains	68.99250	163.86250		UA-27	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-1233	De Long Mountains	68.99250	163.86250		UA-28	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-1234	De Long Mountains	68.99250	163.86250		UA-30	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-1235	De Long Mountains	68.99306	163.86500		UA-21	Cretaceous	Corwin Fm	0.68	Rao, 1980
VO-1236	De Long Mountains	68.99306	163.86500		UA-23	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-1237	De Long Mountains	68.99306	163.86500		UA-25	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-1238	De Long Mountains	68.99389	163.89028		UA-18	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-1239	De Long Mountains	68.99389	163.89028		UA-19	Cretaceous	Corwin Fm	0.70	Rao, 1980
VO-1240	De Long Mountains	68.99389	163.89028		UA-20	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-1220	De Long Mountains	68.99500	162.81611		77ACH51 [Tupikchk syncline]			0.80	PGS - Record # 500739500100000100
VO-1241	De Long Mountains	68.99528	163.76194		UA-42	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-1242	De Long Mountains	68.99889	163.77139		UA-43	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-1243	De Long Mountains	68.99972	163.87222		UA-16	Cretaceous	Corwin Fm	0.67	Rao, 1980
VO-1244	De Long Mountains	68.99972	163.87222		UA-17	Cretaceous	Corwin Fm	0.65	Rao, 1980
VO-1245	Demarcation Point	69.00167	143.08000	1433	90A-103B	Mississippian	Kayak Sh	4.89	USGS [Pawlewicz]
VO-1246	Demarcation Point	69.00167	143.22333	1676	90A-59A	Mississippian	Kayak Sh	4.57	USGS [Pawlewicz]
VO-1247	Demarcation Point	69.00167	143.30167	1585	90A-85C			4.03	USGS [Pawlewicz]
VO-1248	Demarcation Point	69.00500	143.33500	1676	89A-113B			4.26	USGS [Pawlewicz]
VO-1249	Demarcation Point	69.00583	143.33667	1646	89A-107C	Devonian	Ds map unit	4.17	USGS [Pawlewicz]
VO-1250	Demarcation Point	69.00583	143.36083	1829	88A-1Z-2	Devonian	Ds map unit	4.01	USGS [Pawlewicz]
VO-1251	Demarcation Point	69.00583	143.36083	1829	88A-1Q	Devonian	Ds map unit	4.01	USGS [Pawlewicz]
VO-1252	Demarcation Point	69.01333	143.02000	1158	90A-112-.7.5	Devonian	Ds map unit	4.14	USGS [Pawlewicz]
VO-1253	Demarcation Point	69.02000	143.15167	1311	88A-10B-2	Mississippian		4.33	USGS [Pawlewicz]
VO-1254	Demarcation Point	69.02000	143.25333	1722	89A-77A			4.55	USGS [Pawlewicz]
VO-1255	Demarcation Point	69.02000	143.25333	1737	89A-77B			4.40	USGS [Pawlewicz]
VO-1256	Demarcation Point	69.02167	143.19000	1585	89A-104A	L. Mississippian	Kayak Sh	3.29	USGS [Pawlewicz]
VO-1257	Demarcation Point	69.02167	143.04000	1067	90A-130.47	Mississippian	Kayak Sh	4.88	USGS [Pawlewicz]
VO-1258	Demarcation Point	69.02333	143.03667	1189	89A-47A	Mississippian		3.44	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1259	Demarcation Point	69.02333	143.10667	1311	89A-67F			4.15	USGS [Pawlewicz]
VO-1260	Demarcation Point	69.02333	143.10667	1372	89A-67H			3.72	USGS [Pawlewicz]
VO-1261	Demarcation Point	69.02417	143.18833	1402	88A-44E	Mississippian		4.20	USGS [Pawlewicz]
VO-1262	Demarcation Point	69.02500	143.17667	1372	90A-31.79	Devonian	Ds map unit	4.41	USGS [Pawlewicz]
VO-1263	Demarcation Point	69.02500	143.19000	1433	89A-103A	Devonian	Ds map unit	4.62	USGS [Pawlewicz]
VO-1264	Demarcation Point	69.02500	143.19000	1463	89A-103B	Devonian	Ds map unit	4.47	USGS [Pawlewicz]
VO-1265	Demarcation Point	69.02667	143.17667	1341	90A-31A	Devonian	Ds map unit	4.69	USGS [Pawlewicz]
VO-1266	Demarcation Point	69.02750	143.17667	1311	90A-30B	Mississippian	Kayak Sh	4.44	USGS [Pawlewicz]
VO-1267	Demarcation Point	69.02833	143.28667	1615	89A-14D	Mississippian	Kayak Sh	4.18	USGS [Pawlewicz]
VO-1268	Demarcation Point	69.03167	143.06333	1372	89A-24E	Mississippian		4.29	USGS [Pawlewicz]
VO-1269	Demarcation Point	69.03833	143.07667	1402	89A-43-4			4.34	USGS [Pawlewicz]
VO-1270	Demarcation Point	69.04000	143.04667	1158	89A-33E	L. Mississippian	Kayak Sh	3.80	USGS [Pawlewicz]
VO-1271	Demarcation Point	69.04000	143.28667	1615	88A-14D			4.50	USGS [Pawlewicz]
VO-1272	Demarcation Point	69.04333	143.16833	1554	88A-15B	Cambrian-Ordovician	OCcp map unit	2.30	USGS [Pawlewicz]
VO-1273	Demarcation Point	69.05000	143.11500	1494	90A-2B	Mississippian	Kayak Sh	4.42	USGS [Pawlewicz]
VO-1274	Demarcation Point	69.05667	143.08000	1311	90A-24A	Mississippian	Kayak Sh	4.37	USGS [Pawlewicz]
VO-1275	Demarcation Point	69.08888	142.29944	1219	80AMK79E	Cretaceous	Pebble Sh Unit	1.88	PGS - Record # 500759506200000010
VO-1276	Demarcation Point	69.09166	142.29944	1372	80AMK79C	Cretaceous	Pebble Sh Unit	1.68	PGS - Record # 500759506100000010
VO-1277	Demarcation Point	69.09444	142.29944	1433	80AMK79B	Cretaceous	Pebble Sh Unit	1.30	PGS - Record # 500759506000000010
VO-1278	Demarcation Point	69.09694	142.29944	1494	80AMK79A	Cretaceous	Pebble Sh Unit	1.70	PGS - Record # 500759505900000010
VO-1279	Demarcation Point	69.10833	142.32166	1158	80AMK54C	Cretaceous	Pebble Sh Unit	1.78	PGS - Record # 500759504600000010
VO-1280	Demarcation Point	69.10833	142.32166	1158	80AMK54A	Cretaceous	Pebble Sh Unit	1.81	PGS - Record # 500759504600000030
VO-1281	Demarcation Point	69.11277	142.30277	945	80AMK53A	Cretaceous	Pebble Sh Unit	1.69	PGS - Record # 500759504500000030
VO-1282	Demarcation Point	69.11333	142.30277	899	80AMK53C	Cretaceous	Pebble Sh Unit	1.81	PGS - Record # 500759504500000010
VO-1283	Demarcation Point	69.11777	142.31083	847	80AMK81	Permian-Triassic	Sadlerochit Gp	2.24	PGS - Record # 500759504300000010
VO-1284	Demarcation Point	69.12083	142.51250	1448	83AMK28B	Cretaceous	Pebble Sh Unit	2.42	PGS - Record # 500759508200000030
VO-1285	Demarcation Point	69.12361	142.51250	1341	83AMK29A	Cretaceous	Pebble Sh Unit	2.81	PGS - Record # 500759508300000040
VO-1286	Demarcation Point	69.12916	142.59583	1280	83AMK27G	Cretaceous	Pebble Sh Unit	2.63	PGS - Record # 500759508100000020
VO-1287	Demarcation Point	69.12916	142.59583	1280	83AMK27B	Cretaceous	Pebble Sh Unit	3.07	PGS - Record # 500759508100000060
VO-1288	Demarcation Point	69.18055	142.68333	975	83AMK31C	Mississippian	Kayak Sh	4.00	PGS - Record # 500759508500000010
VO-1289	Demarcation Point	69.49111	142.84722	472	83AMK10D	Mississippian	Kayak Sh	3.21	PGS - Record # 500759507100000010
VO-1290	Demarcation Point	69.50416	143.86666	549	76AMU105	Cretaceous	Pebble Sh Unit	3.06	PGS - Record # 500759502000000010
VO-1291	Demarcation Point	69.51250	143.03666	366	83AMK11E	M. Triassic	Shublik Fm	3.14	PGS - Record # 500759507200000010
VO-1292	Demarcation Point	69.51250	143.03666	366	83AMK11B	M. Triassic	Shublik Fm	2.77	PGS - Record # 500759507200000040
VO-1293	Demarcation Point	69.52333	143.05000	351	83AMK13G	Jurassic	Kingak Sh	2.81	PGS - Record # 500759507300000010
VO-1294	Demarcation Point	69.52333	143.05000	351	83AMK13C	Jurassic	Kingak Sh	3.03	PGS - Record # 500759507300000050
VO-1295	Demarcation Point	69.52638	143.06500	305	80AMK56B	Jurassic	Kingak Sh	1.84	PGS - Record # 500759504700000010
VO-1296	Demarcation Point	69.52638	143.06500	305	80AMK56A	Jurassic	Kingak Sh	2.05	PGS - Record # 500759504700000020
VO-1297	Demarcation Point	69.53305	143.07472	305	80AMK57B	Jurassic	Kingak Sh	2.15	PGS - Record # 500759504800000010
VO-1298	Demarcation Point	69.53305	143.07472	305	80AMK57A	Jurassic	Kingak Sh	1.90	PGS - Record # 500759504800000020
VO-1299	Demarcation Point	69.53611	143.08333	305	83AMK15A	Jurassic	Kingak Sh	2.90	PGS - Record # 500759507400000020
VO-1300	Demarcation Point	69.54305	143.33333	305	83AMK17C	Cretaceous	Hue Sh	1.99	PGS - Record # 500759507500000010
VO-1301	Demarcation Point	69.54305	143.33333	305	83AMK17A	Cretaceous	Hue Sh	1.81	PGS - Record # 500759507500000030
VO-1302	Demarcation Point	69.55416	143.33333	305	83AMK32D	Tertiary	Canning Fm	0.93	PGS - Record # 500759506400000010
VO-1303	Demarcation Point	69.55833	143.30833	305	83AMK18C	Cretaceous	Pebble Sh Unit	2.12	PGS - Record # 500759507600000010
VO-1304	Demarcation Point	69.55833	143.30833	305	83AMK18A	Cretaceous	Pebble Sh Unit	2.20	PGS - Record # 500759507600000030
VO-1305	Demarcation Point	69.62222	143.57111	244	80AMK66A	Tertiary	Sagavanirktok Fm	0.73	PGS - Record # 500759505500000010
VO-1306	Demarcation Point	69.62750	143.56888	229	80AMK58	Tertiary	Sagavanirktok Fm	0.55	PGS - Record # 500759504900000010
VO-3780	Demarcation Point	69.63194	143.68111		96DH-104	Tertiary	Jago Fm	1.17	USGS [Pawlewicz]
VO-1307	Demarcation Point	69.63305	143.55944	229	80AMK65	Tertiary	Sagavanirktok Fm	0.72	PGS - Record # 500759505400000010
VO-1308	Demarcation Point	69.64916	143.56166	206	80AMK59	Tertiary	Sagavanirktok Fm	0.54	PGS - Record # 500759505000000010
VO-1309	Demarcation Point	69.65750	143.53555	229	80AMK60	Tertiary	Sagavanirktok Fm	0.55	PGS - Record # 500759505100000010
VO-1310	Demarcation Point	69.66194	143.51888	229	80AMK62	Tertiary	Sagavanirktok Fm	0.55	PGS - Record # 500759505200000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1311	Demarcation Point	69.68638	143.45277	175	80AMK64	Tertiary	Sagavanirktok Fm	0.56	PGS - Record # 500759505300000010
VO-3781	Demarcation Point	69.6875	143.49528		96DH-116	Tertiary	Jago Fm	0.47	USGS [Pawlewicz]
VO-1312	Demarcation Point	69.88888	142.91666	61	83AMK8E	Cretaceous	Hue Sh	0.99	PGS - Record # 500759506900000030
VO-1313	Demarcation Point	69.89916	143.11277	76	80AMK69B	Cretaceous	Pebble Sh Unit	0.67	PGS - Record # 500759505600000010
VO-1314	Demarcation Point	69.89916	143.11277	76	80AMK69A	Cretaceous	Pebble Sh Unit	0.63	PGS - Record # 500759505600000020
VO-1315	Demarcation Point	69.90000	142.90000	61	83AMK7	Cretaceous	Hue Sh	0.75	PGS - Record # 500759506800000010
VO-1316	Demarcation Point	69.91111	143.39111	69	80AMK70C	Cretaceous	Hue Sh	0.66	PGS - Record # 500759505700000010
VO-1317	Demarcation Point	69.91111	143.39111	69	80AMK70A	Cretaceous	Hue Sh	0.63	PGS - Record # 500759505700000030
VO-1318	Demarcation Point	69.91388	143.39166	61	83AMK20F	Cretaceous	Hue Sh	0.63	PGS - Record # 500759507700000010
VO-1319	Demarcation Point	69.91388	143.39166	61	83AMK20B	Cretaceous	Hue Sh	0.50	PGS - Record # 500759507700000050
VO-1320	Demarcation Point	69.92444	143.37305	69	80AMK71B	Tertiary	Sagavanirktok Fm	0.73	PGS - Record # 500759505800000010
VO-1321	Demarcation Point	69.92500	143.36666	61	75PS85 [Jago River Section]	Cretaceous	Hue Sh	0.31	PGS - Record # 500759501000000010
VO-1322	Demarcation Point	69.92500	143.36666	61	75PS86 [Jago River Section]	Cretaceous	Hue Sh	0.34	PGS - Record # 500759501100000010
VO-1323	Demarcation Point	69.92500	143.36666	61	75PS87 [Jago River Section]	Cretaceous	Hue Sh	0.26	PGS - Record # 500759501200000010
VO-1324	Demarcation Point	69.92500	143.36666	61	75PS88 [Jago River Section]	Cretaceous	Hue Sh	0.28	PGS - Record # 500759501300000010
VO-1325	Demarcation Point	69.92500	143.36666	61	75PS89 [Jago River Section]	Cretaceous	Hue Sh	0.38	PGS - Record # 500759501400000010
VO-1326	Demarcation Point	69.92500	143.36666	61	75PS114 [Jago River Section]	Cretaceous	Hue Sh	0.43	PGS - Record # 500759501600000010
VO-1327	Demarcation Point	69.92500	143.36666	61	75PS113 [Jago River Section]	Cretaceous	Hue Sh	0.49	PGS - Record # 500759501600000020
VO-1328	Eagle	64.86000	141.10167	274	MJ90-K59a	Devonian	Nation River Fm	1.62	USGS [Pawlewicz]
VO-1329	Eagle	64.89056	141.14611	274	MJ90-K60a	Devonian	Ford Lake Sh	1.29	USGS [Pawlewicz]
VO-1330	Eagle	64.89361	141.13194	305	85JCR-24	Devonian	Nation River Fm	0.82	Underwood et al., 1989
VO-1331	Eagle	64.90528	141.19806	274	MJ90-K61a	Mississippian-Pennsylvanian	Calico Bluff Fm	1.03	USGS [Pawlewicz]
VO-1332	Eagle	64.90722	141.55861	320	MJ90-K58b	Cretaceous-Tertiary	TKs map unit	0.74	USGS [Pawlewicz]
VO-1333	Eagle	64.91166	141.18666	259	84AST40	Mississippian		1.05	PGS - Record # 500819501100000010
VO-1334	Eagle	64.91166	141.18666	259	84AST43	Mississippian		0.80	PGS - Record # 500819501300000010
VO-1335	Eagle	64.91500	141.18666	259	84AST36	Mississippian		0.91	PGS - Record # 500819500900000010
VO-1336	Eagle	64.92167	141.18139	274	MJ90-K62a	Devonian	Ford Lake Sh	1.65	USGS [Pawlewicz]
VO-1337	Eagle	64.93500	141.35861	274	MJ90-K65a	Cretaceous-Tertiary	TKs map unit	0.61	USGS [Pawlewicz]
VO-1338	Eagle	64.94611	141.02500	1006	MJ90-K24a	Devonian	McCann Hill Chert	1.11	USGS [Pawlewicz]
VO-1339	Eagle	64.94611	141.02500	1006	MJ90-K24b	Devonian	McCann Hill Chert	0.77	USGS [Pawlewicz]
VO-1340	Eagle	64.94750	141.02972	1006	MJ90-K24c	Devonian	McCann Hill Chert	1.09	USGS [Pawlewicz]
VO-1341	Eagle	64.94750	141.03806	1067	85JCR-25b	Ordovician-Devonian	Road River Fm	0.97	Underwood et al., 1989
VO-1342	Eagle	64.95444	141.24333	274	MJ90-K64a	Mississippian-Pennsylvanian	Calico Bluff Fm	0.91	USGS [Pawlewicz]
VO-1343	Eagle	64.95667	141.01972	914	786-22-1	Devonian	McCann Hill Chert	0.89	Underwood et al., 1989
VO-1344	Eagle	64.95833	141.37917	274	MJ90-K66a	Cretaceous-Tertiary	TKs map unit	0.59	USGS [Pawlewicz]
VO-1345	Fairbanks	64.005	148.247		78A-5A	Miocene	Suntrana	0.32	Shell Oil Company
VO-1346	Fairbanks	64.005	148.247		78A-5H	Miocene	Suntrana	0.27	Shell Oil Company
VO-1347	Fairbanks	64.00667	148.78417		EC2-1	Miocene	Grubstake/Lignite Ck Fm	0.21	Merritt, 1985b
VO-1348	Fairbanks	64.01111	148.28417		MS1-1	Miocene	Suntrana Fm	0.32	Merritt, 1985b
VO-1349	Fairbanks	64.01111	148.28417		MS1-6	Miocene	Suntrana Fm	0.35	Merritt, 1985b
VO-1350	Fairbanks	64.01111	148.28417		MS1-8	Miocene	Suntrana Fm	0.39	Merritt, 1985b
VO-1351	Fairbanks	64.01666	148.14000	686	84AST112	Tertiary		0.82	PGS - Record # 500839500100000010
VO-1352	Fairbanks	64.01666	148.14000	686	84AKR56	Tertiary		0.76	PGS - Record # 500839500200000010
VO-1353	Fairbanks	64.01666	148.14000	686	84AKR58	Tertiary		0.65	PGS - Record # 500839500300000010
VO-1354	Fairbanks	64.01666	148.14000	686	84AKR60	Tertiary		0.32	PGS - Record # 500839500400000010
VO-1355	Fairbanks	64.018	148.205		78A-26A	Miocene	Lignite Cr.	0.29	Shell Oil Company
VO-1356	Fairbanks	64.01806	148.74333		BM1-9	Miocene	Suntrana Fm	0.27	Merritt, 1985b
VO-1357	Fairbanks	64.035	148.410		78A-6C	Miocene	Grubstake	0.82	Shell Oil Company
VO-1358	Fairbanks	64.07722	148.20722	579	86AST111A	Oligocene	Grubstake Fm	0.46	USGS [Pawlewicz]
VO-1359	Fairbanks	64.07722	148.20722	579	86AST110A	Oligocene	Grubstake Fm	0.54	USGS [Pawlewicz]
VO-1360	Fairbanks	64.07722	148.20722	579	86AST109A	Oligocene	Grubstake Fm	0.66	USGS [Pawlewicz]
VO-1361	Fairbanks	64.07722	148.20722	579	89AST-113	Oligocene	Grubstake Fm	0.34	USGS [Pawlewicz]
VO-1362	Fairbanks	64.10166	148.73333	460	85AST165A	Oligocene	Sanctuary Fm	0.31	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1363	Fairbanks	64.10166	148.73333	460	85AST164A	Oligocene	Sanctuary Fm	0.31	USGS [Pawlewicz]
VO-1364	Fairbanks	64.10166	148.73333	460	85AST163A	Oligocene	Sanctuary Fm	0.34	USGS [Pawlewicz]
VO-1365	Fairbanks	64.10166	148.73333	460	85AST161A	Oligocene	Sanctuary Fm	0.36	USGS [Pawlewicz]
VO-1366	Fairbanks	64.105	148.835		78A-17B	Miocene	Healy Cr.	0.31	Shell Oil Company
VO-1367	Fairbanks	64.122	148.738		78A-18D	Miocene	Healy Cr.	0.33	Shell Oil Company
VO-1368	Fairbanks	64.122	148.738		78A-18G	Miocene	Healy Cr.	0.33	Shell Oil Company
VO-1369	Fairbanks	64.12833	146.62611	503	85AST160	Miocene	Healy Creek Fm	0.29	USGS [Pawlewicz]
VO-1370	Goodnews	59.250	159.600		74B-76	Cretaceous	Kulukak	0.88	Shell Oil Company
VO-1371	Goodnews	59.250	159.600		74B-76	Cretaceous	Kulukak	1.31	Shell Oil Company
VO-1372	Healy	63.250	149.187		UA 111	Tertiary		0.23	Shell Oil Company
VO-1373	Healy	63.270	149.505		UA 123	Tertiary		0.41	Shell Oil Company
VO-1374	Healy	63.37333	148.38000	732	85AST248	Jurassic-Cretaceous		1.06	USGS [Pawlewicz]
VO-1375	Healy	63.50750	148.74916	1638	85AST81	Cretaceous-Tertiary	Cantwell Fm	4.25	USGS [Pawlewicz]
VO-1376	Healy	63.50750	148.74916	1638	85AST80	Cretaceous-Tertiary	Cantwell Fm	2.07	USGS [Pawlewicz]
VO-1377	Healy	63.50833	148.74833	1631	85AST86	Cretaceous-Tertiary	Cantwell Fm	3.01	USGS [Pawlewicz]
VO-1378	Healy	63.50833	148.74833	1631	85AST85	Cretaceous-Tertiary	Cantwell Fm	2.15	USGS [Pawlewicz]
VO-1379	Healy	63.50833	148.74833	1631	85AST84	Cretaceous-Tertiary	Cantwell Fm	1.39	USGS [Pawlewicz]
VO-1380	Healy	63.50833	148.74833	1631	85AST83	Cretaceous-Tertiary	Cantwell Fm	2.97	USGS [Pawlewicz]
VO-1381	Healy	63.50833	148.74833	1631	85AST82	Cretaceous-Tertiary	Cantwell Fm	1.48	USGS [Pawlewicz]
VO-1382	Healy	63.52583	149.28666	1082	86AST163	Cretaceous-Tertiary	Cantwell Fm	3.02	USGS [Pawlewicz]
VO-1383	Healy	63.52583	149.28666	1082	86AST164	Cretaceous-Tertiary	Cantwell Fm	2.72	USGS [Pawlewicz]
VO-1384	Healy	63.52583	149.28666	1082	86AST165	Cretaceous-Tertiary	Cantwell Fm	2.59	USGS [Pawlewicz]
VO-1385	Healy	63.52666	149.90000	1134	85AST6	Cretaceous-Tertiary	Cantwell Fm	0.70	USGS [Pawlewicz]
VO-1386	Healy	63.52666	149.90000	1134	85AST5	Cretaceous-Tertiary	Cantwell Fm	0.71	USGS [Pawlewicz]
VO-1387	Healy	63.52666	149.90000	1134	85AST4	Cretaceous-Tertiary	Cantwell Fm	0.97	USGS [Pawlewicz]
VO-1388	Healy	63.52861	149.19722	1250	86AST99	Cretaceous-Tertiary	Cantwell Fm	2.75	USGS [Pawlewicz]
VO-1389	Healy	63.52861	149.19722	1250	86AST100	Cretaceous-Tertiary	Cantwell Fm	2.71	USGS [Pawlewicz]
VO-1390	Healy	63.52861	149.19722	1250	86AST101	Cretaceous-Tertiary	Cantwell Fm	2.56	USGS [Pawlewicz]
VO-1391	Healy	63.53166	149.85500		85AST2	Cretaceous-Tertiary	Cantwell Fm	0.69	USGS [Pawlewicz]
VO-1392	Healy	63.53333	148.75333	1600	85AST91	Cretaceous-Tertiary	Cantwell Fm	3.61	USGS [Pawlewicz]
VO-1393	Healy	63.55666	149.13333	1113	86AST103	Cretaceous-Tertiary	Cantwell Fm	2.79	USGS [Pawlewicz]
VO-1394	Healy	63.55666	149.13333	1113	86AST104	Cretaceous-Tertiary	Cantwell Fm	4.05	USGS [Pawlewicz]
VO-1395	Healy	63.55666	149.13333	1113	86AST105	Cretaceous-Tertiary	Cantwell Fm	3.33	USGS [Pawlewicz]
VO-1396	Healy	63.55666	149.13333	1113	86AST106	Cretaceous-Tertiary	Cantwell Fm	3.09	USGS [Pawlewicz]
VO-1397	Healy	63.58388	149.60166	1067	85AST42	Cretaceous-Tertiary	Cantwell Fm	3.28	USGS [Pawlewicz]
VO-1398	Healy	63.58499	149.88666	869	85AST98	Cretaceous-Tertiary	Cantwell Fm	1.00	USGS [Pawlewicz]
VO-1399	Healy	63.58499	149.88666	869	85AST97	Cretaceous-Tertiary	Cantwell Fm	0.98	USGS [Pawlewicz]
VO-1400	Healy	63.58499	149.88666	869	85AST96	Cretaceous-Tertiary	Cantwell Fm	1.10	USGS [Pawlewicz]
VO-1401	Healy	63.58499	149.88666	869	85AST95	Cretaceous-Tertiary	Cantwell Fm	1.16	USGS [Pawlewicz]
VO-1402	Healy	63.58499	149.88666	869	85AST94	Cretaceous-Tertiary	Cantwell Fm	1.20	USGS [Pawlewicz]
VO-1403	Healy	63.58499	149.88666	869	85AST93	Cretaceous-Tertiary	Cantwell Fm	1.19	USGS [Pawlewicz]
VO-1404	Healy	63.58583	149.61055	1015	85AST44	Cretaceous-Tertiary	Cantwell Fm	2.00	USGS [Pawlewicz]
VO-1405	Healy	63.58583	149.61055	1015	85AST45	Cretaceous-Tertiary	Cantwell Fm	1.32	USGS [Pawlewicz]
VO-1406	Healy	63.58583	149.61055	1015	85AST47	Cretaceous-Tertiary	Cantwell Fm	1.12	USGS [Pawlewicz]
VO-1407	Healy	63.58583	149.61055	1015	85AST48	Cretaceous-Tertiary	Cantwell Fm	1.07	USGS [Pawlewicz]
VO-1408	Healy	63.58583	149.61055	1015	85AST49	Cretaceous-Tertiary	Cantwell Fm	0.82	USGS [Pawlewicz]
VO-1409	Healy	63.58583	149.61055	1015	85AST50	Cretaceous-Tertiary	Cantwell Fm	1.10	USGS [Pawlewicz]
VO-1410	Healy	63.58888	149.62500	1082	86AST1	Cretaceous-Tertiary	Cantwell Fm	0.77	USGS [Pawlewicz]
VO-1411	Healy	63.58916	149.62333	1052	86AST3	Cretaceous-Tertiary	Cantwell Fm	0.85	USGS [Pawlewicz]
VO-1412	Healy	63.58916	149.62333	1052	86AST2	Cretaceous-Tertiary	Cantwell Fm	0.81	USGS [Pawlewicz]
VO-1413	Healy	63.58944	149.61833	960	86AST8	Cretaceous-Tertiary	Cantwell Fm	4.45	USGS [Pawlewicz]
VO-1414	Healy	63.58944	149.62166	1021	86AST5	Cretaceous-Tertiary	Cantwell Fm	0.86	USGS [Pawlewicz]
VO-1415	Healy	63.58944	149.62166	1021	86AST4	Cretaceous-Tertiary	Cantwell Fm	0.80	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1416	Healy	63.59666	148.35000	1189	86AST22	Cretaceous-Tertiary	Cantwell Fm	1.07	USGS [Pawlewicz]
VO-1417	Healy	63.59666	148.35000	1189	86AST21	Cretaceous-Tertiary	Cantwell Fm	4.72	USGS [Pawlewicz]
VO-1418	Healy	63.59666	148.35000	1189	86AST20	Cretaceous-Tertiary	Cantwell Fm	4.53	USGS [Pawlewicz]
VO-1419	Healy	63.60277	148.37666	1280	86AST35	Cretaceous-Tertiary	Cantwell Fm	4.05	USGS [Pawlewicz]
VO-1420	Healy	63.60277	148.37666	1280	86AST34	Cretaceous-Tertiary	Cantwell Fm	3.97	USGS [Pawlewicz]
VO-1421	Healy	63.60277	148.37666	1280	86AST33	Cretaceous-Tertiary	Cantwell Fm	3.81	USGS [Pawlewicz]
VO-1422	Healy	63.60277	149.41916	1067	86AST158	Cretaceous-Tertiary	Cantwell Fm	0.71	USGS [Pawlewicz]
VO-1423	Healy	63.60277	149.41916	1067	86AST159	Cretaceous-Tertiary	Cantwell Fm	0.75	USGS [Pawlewicz]
VO-1424	Healy	63.60277	149.41916	1067	86AST160	Cretaceous-Tertiary	Cantwell Fm	0.79	USGS [Pawlewicz]
VO-1425	Healy	63.60277	149.41916	1067	86AST161	Cretaceous-Tertiary	Cantwell Fm	0.77	USGS [Pawlewicz]
VO-1426	Healy	63.61000	148.43055	945	86AST31	Cretaceous-Tertiary	Cantwell Fm	4.74	USGS [Pawlewicz]
VO-1427	Healy	63.61000	148.43055	945	86AST30	Cretaceous-Tertiary	Cantwell Fm	4.31	USGS [Pawlewicz]
VO-1428	Healy	63.61000	148.43055	945	86AST29	Cretaceous-Tertiary	Cantwell Fm	4.55	USGS [Pawlewicz]
VO-1429	Healy	63.61583	148.44000	1113	86AST27	Cretaceous-Tertiary	Cantwell Fm	1.17	USGS [Pawlewicz]
VO-1430	Healy	63.61583	148.44000	1113	86AST26	Cretaceous-Tertiary	Cantwell Fm	3.27	USGS [Pawlewicz]
VO-1431	Healy	63.61583	148.44000	1113	86AST25	Cretaceous-Tertiary	Cantwell Fm	3.35	USGS [Pawlewicz]
VO-1432	Healy	63.61888	149.37333	975	86AST153	Cretaceous-Tertiary	Cantwell Fm	4.52	USGS [Pawlewicz]
VO-1433	Healy	63.61888	149.37333	975	86AST154	Cretaceous-Tertiary	Cantwell Fm	3.13	USGS [Pawlewicz]
VO-1434	Healy	63.61888	149.37333	975	86AST155	Cretaceous-Tertiary	Cantwell Fm	3.12	USGS [Pawlewicz]
VO-1435	Healy	63.62222	148.08000	1097	86AST44	Cretaceous-Tertiary	Cantwell Fm	3.53	USGS [Pawlewicz]
VO-1436	Healy	63.62222	148.08000	1097	86AST43	Cretaceous-Tertiary	Cantwell Fm	3.73	USGS [Pawlewicz]
VO-1437	Healy	63.62222	148.08000	1097	86AST42	Cretaceous-Tertiary	Cantwell Fm	3.71	USGS [Pawlewicz]
VO-2664	Healy	63.62500	148.11500	1082	86AST40	Cretaceous-Tertiary	Cantwell Fm	3.23	USGS [Pawlewicz]
VO-2665	Healy	63.62500	148.11500	1082	86AST39	Cretaceous-Tertiary	Cantwell Fm	3.48	USGS [Pawlewicz]
VO-2666	Healy	63.62500	148.11500	1082	86AST38	Cretaceous-Tertiary	Cantwell Fm	3.67	USGS [Pawlewicz]
VO-1438	Healy	63.62694	148.03055	1204	86AST45	Cretaceous-Tertiary	Cantwell Fm	2.77	USGS [Pawlewicz]
VO-1439	Healy	63.62694	148.03055	1204	86AST46	Cretaceous-Tertiary	Cantwell Fm	2.59	USGS [Pawlewicz]
VO-1440	Healy	63.62694	148.03055	1204	86AST47	Cretaceous-Tertiary	Cantwell Fm	2.39	USGS [Pawlewicz]
VO-1441	Healy	63.64444	148.84222	716	85AST58	Cretaceous-Tertiary	Cantwell Fm	0.93	USGS [Pawlewicz]
VO-1442	Healy	63.65333	148.84000	625	85AST63	Cretaceous-Tertiary	Cantwell Fm	0.65	USGS [Pawlewicz]
VO-1443	Healy	63.65333	148.84000	625	85AST62	Cretaceous-Tertiary	Cantwell Fm	0.63	USGS [Pawlewicz]
VO-1444	Healy	63.65333	148.84000	625	85AST61	Cretaceous-Tertiary	Cantwell Fm	0.94	USGS [Pawlewicz]
VO-1445	Healy	63.65333	148.84000	625	85AST60	Cretaceous-Tertiary	Cantwell Fm	0.70	USGS [Pawlewicz]
VO-1446	Healy	63.65333	148.84000	625	86AST177G	Cretaceous-Tertiary	Cantwell Fm	3.41	USGS [Pawlewicz]
VO-1447	Healy	63.65333	148.84000	625	86AST177F	Cretaceous-Tertiary	Cantwell Fm	4.04	USGS [Pawlewicz]
VO-1448	Healy	63.65333	148.84000	625	86AST177E	Cretaceous-Tertiary	Cantwell Fm	3.68	USGS [Pawlewicz]
VO-1449	Healy	63.65333	148.84000	625	86AST177C	Cretaceous-Tertiary	Cantwell Fm	3.41	USGS [Pawlewicz]
VO-1450	Healy	63.65333	148.84000	625	86AST177B	Cretaceous-Tertiary	Cantwell Fm	2.01	USGS [Pawlewicz]
VO-1451	Healy	63.65333	148.84000	625	86AST179C	Cretaceous-Tertiary	Cantwell Fm	2.38	USGS [Pawlewicz]
VO-1452	Healy	63.65333	148.84000	625	86AST179B	Cretaceous-Tertiary	Cantwell Fm	2.03	USGS [Pawlewicz]
VO-1453	Healy	63.65333	148.84000	625	86AST179A	Cretaceous-Tertiary	Cantwell Fm	1.70	USGS [Pawlewicz]
VO-1454	Healy	63.65333	148.84000	625	86AST180D	Cretaceous-Tertiary	Cantwell Fm	1.66	USGS [Pawlewicz]
VO-1455	Healy	63.65333	148.84000	625	86AST180C	Cretaceous-Tertiary	Cantwell Fm	2.65	USGS [Pawlewicz]
VO-1456	Healy	63.65333	148.84000	625	86AST180B	Cretaceous-Tertiary	Cantwell Fm	3.59	USGS [Pawlewicz]
VO-1457	Healy	63.65333	148.84000	625	86AST180A	Cretaceous-Tertiary	Cantwell Fm	2.62	USGS [Pawlewicz]
VO-1458	Healy	63.657	148.850		UA 132			0.76	Shell Oil Company
VO-1459	Healy	63.67277	148.65722	579	86AST74	Cretaceous-Tertiary	Cantwell Fm	1.47	USGS [Pawlewicz]
VO-1460	Healy	63.67277	148.65722	579	86AST75	Cretaceous-Tertiary	Cantwell Fm	1.88	USGS [Pawlewicz]
VO-1461	Healy	63.67277	148.65722	579	86AST76	Cretaceous-Tertiary	Cantwell Fm	1.97	USGS [Pawlewicz]
VO-1462	Healy	63.67500	148.68333	549	84AST176A	Paleocene		3.25	PGS - Record # 501059500200000010
VO-1463	Healy	63.67583	148.68333	579	86AST70	Cretaceous-Tertiary	Cantwell Fm	3.28	USGS [Pawlewicz]
VO-1464	Healy	63.67583	148.68333	579	86AST69	Cretaceous-Tertiary	Cantwell Fm	3.46	USGS [Pawlewicz]
VO-1465	Healy	63.67583	148.68333	579	86AST68	Cretaceous-Tertiary	Cantwell Fm	3.76	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1466	Healy	63.67666	149.00166	1067	86AST167	Cretaceous-Tertiary	Cantwell Fm	0.71	USGS [Pawlewicz]
VO-1467	Healy	63.67666	149.00166	1067	86AST168	Cretaceous-Tertiary	Cantwell Fm	0.82	USGS [Pawlewicz]
VO-1468	Healy	63.67666	149.00166	1067	86AST169	Cretaceous-Tertiary	Cantwell Fm	0.72	USGS [Pawlewicz]
VO-1469	Healy	63.67666	149.00166	1067	86AST170	Cretaceous-Tertiary	Cantwell Fm	0.70	USGS [Pawlewicz]
VO-1470	Healy	63.71138	149.88611	671	85AST135	Cretaceous-Tertiary	Cantwell Fm	2.89	USGS [Pawlewicz]
VO-1471	Healy	63.72222	148.15666	1143	86AST90	Cretaceous-Tertiary	Cantwell Fm	1.85	USGS [Pawlewicz]
VO-1472	Healy	63.72222	148.15666	1143	86AST89	Cretaceous-Tertiary	Cantwell Fm	1.82	USGS [Pawlewicz]
VO-1473	Healy	63.72222	148.15666	1143	86AST88	Cretaceous-Tertiary	Cantwell Fm	1.77	USGS [Pawlewicz]
VO-1474	Healy	63.73111	148.28611	823	86AST81	Cretaceous-Tertiary	Cantwell Fm	4.35	USGS [Pawlewicz]
VO-1475	Healy	63.73111	148.28611	823	86AST80	Cretaceous-Tertiary	Cantwell Fm	3.97	USGS [Pawlewicz]
VO-1476	Healy	63.73111	148.28611	823	86AST79	Cretaceous-Tertiary	Cantwell Fm	3.68	USGS [Pawlewicz]
VO-1477	Healy	63.73111	148.28611	823	86AST78	Cretaceous-Tertiary	Cantwell Fm	2.71	USGS [Pawlewicz]
VO-1478	Healy	63.73111	148.28611	823	86AST77	Cretaceous-Tertiary	Cantwell Fm	2.76	USGS [Pawlewicz]
VO-1479	Healy	63.73722	148.27666	853	86AST85	Cretaceous-Tertiary	Cantwell Fm	3.59	USGS [Pawlewicz]
VO-1480	Healy	63.73722	148.27666	853	86AST84	Cretaceous-Tertiary	Cantwell Fm	3.58	USGS [Pawlewicz]
VO-1481	Healy	63.73722	148.27666	853	86AST83	Cretaceous-Tertiary	Cantwell Fm	3.82	USGS [Pawlewicz]
VO-1482	Healy	63.73944	149.70333	762	85AST132	Miocene	Healy Creek Fm	0.23	USGS [Pawlewicz]
VO-1483	Healy	63.73944	149.70333	762	85AST133	Miocene	Healy Creek Fm	0.25	USGS [Pawlewicz]
VO-1484	Healy	63.74166	148.09388	1143	86AST92	Cretaceous-Tertiary	Cantwell Fm	2.05	USGS [Pawlewicz]
VO-1485	Healy	63.74166	148.09388	1143	86AST93	Cretaceous-Tertiary	Cantwell Fm	2.67	USGS [Pawlewicz]
VO-1486	Healy	63.74166	148.09388	1143	86AST94	Cretaceous-Tertiary	Cantwell Fm	4.12	USGS [Pawlewicz]
VO-1487	Healy	63.76611	149.60166	732	85AST139	Oligocene	Sanctuary Fm	0.31	USGS [Pawlewicz]
VO-1488	Healy	63.76750	149.60305	732	85AST141	Pliocene	Nenana Gravels	0.35	USGS [Pawlewicz]
VO-1489	Healy	63.76806	149.58111		TRI-1	Tertiary		0.28	Merritt, 1985b
VO-1490	Healy	63.79027	149.50555	664	85AST142	Miocene	Healy Creek Fm	0.27	USGS [Pawlewicz]
VO-1491	Healy	63.79027	149.50555	664	85AST144	Miocene	Healy Creek Fm	0.26	USGS [Pawlewicz]
VO-1492	Healy	63.79277	149.50666	663	85AST148	Oligocene	Sanctuary Fm	0.29	USGS [Pawlewicz]
VO-1493	Healy	63.79277	149.50666	663	85AST147	Oligocene	Sanctuary Fm	0.28	USGS [Pawlewicz]
VO-1494	Healy	63.79277	149.50666	663	85AST146	Oligocene	Sanctuary Fm	0.31	USGS [Pawlewicz]
VO-1495	Healy	63.830	148.667		UA 103	Miocene	Suntrana	0.30	Shell Oil Company
VO-1496	Healy	63.830	148.667		UA 104	Miocene	Suntrana	0.31	Shell Oil Company
VO-1497	Healy	63.85500	148.84000	488	85AST241	Miocene	Healy Creek Fm	0.32	USGS [Pawlewicz]
VO-1498	Healy	63.85500	148.84000	488	85AST240	Miocene	Healy Creek Fm	0.33	USGS [Pawlewicz]
VO-1499	Healy	63.85500	148.84000	488	85AST239	Miocene	Healy Creek Fm	0.31	USGS [Pawlewicz]
VO-1500	Healy	63.85500	148.84000	488	85AST238	Miocene	Healy Creek Fm	0.34	USGS [Pawlewicz]
VO-1501	Healy	63.85500	148.84000	488	85AST237	Miocene	Healy Creek Fm	0.36	USGS [Pawlewicz]
VO-1502	Healy	63.85500	148.84000	488	85AST236	Miocene	Healy Creek Fm	0.33	USGS [Pawlewicz]
VO-1503	Healy	63.85500	148.84000	488	85AST235	Miocene	Healy Creek Fm	0.32	USGS [Pawlewicz]
VO-1504	Healy	63.85500	148.84000	488	85AST233	Miocene	Healy Creek Fm	0.34	USGS [Pawlewicz]
VO-1505	Healy	63.85500	148.84000	488	85AST232	Miocene	Healy Creek Fm	0.43	USGS [Pawlewicz]
VO-1506	Healy	63.85500	148.84000	488	85AST231	Miocene	Healy Creek Fm	1.04	USGS [Pawlewicz]
VO-1507	Healy	63.85500	148.84000	488	85AST228	Miocene	Healy Creek Fm	0.34	USGS [Pawlewicz]
VO-1508	Healy	63.85500	148.84000	488	85AST226	Miocene	Healy Creek Fm	0.33	USGS [Pawlewicz]
VO-1509	Healy	63.85500	148.84000	488	85AST221	Miocene	Healy Creek Fm	0.36	USGS [Pawlewicz]
VO-1510	Healy	63.85500	148.84000	488	85AST219	Miocene	Healy Creek Fm	0.30	USGS [Pawlewicz]
VO-1511	Healy	63.85500	148.84000	488	85AST212	Miocene	Healy Creek Fm	0.32	USGS [Pawlewicz]
VO-1512	Healy	63.85500	148.84000	488	85AST211	Miocene	Healy Creek Fm	0.28	USGS [Pawlewicz]
VO-2704	Healy	63.85500	148.84000	488	86AST182	Miocene	Healy Creek Fm	0.35	USGS [Pawlewicz]
VO-2705	Healy	63.85500	148.84000	488	86AST183	Miocene	Healy Creek Fm	0.39	USGS [Pawlewicz]
VO-2706	Healy	63.85500	148.84000	488	86AST184	Miocene	Healy Creek Fm	0.34	USGS [Pawlewicz]
VO-2707	Healy	63.85500	148.84000	488	86AST185	Miocene	Healy Creek Fm	0.37	USGS [Pawlewicz]
VO-2708	Healy	63.85500	148.84000	488	86AST186	Miocene	Healy Creek Fm	0.36	USGS [Pawlewicz]
VO-2709	Healy	63.85500	148.84000	488	86AST187	Miocene	Healy Creek Fm	2.72	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2710	Healy	63.85500	148.84000	488	86AST188	Miocene	Healy Creek Fm	1.13	USGS [Pawlewicz]
VO-2711	Healy	63.85500	148.84000	488	86AST189	Miocene	Healy Creek Fm	1.47	USGS [Pawlewicz]
VO-2712	Healy	63.85500	148.84000	488	86AST190	Miocene	Healy Creek Fm	0.37	USGS [Pawlewicz]
VO-2713	Healy	63.85500	148.84000	488	86AST191	Miocene	Healy Creek Fm	0.37	USGS [Pawlewicz]
VO-1513	Healy	63.85666	148.84000	488	87AST95	Miocene	Suntrama Fm	0.41	USGS [Pawlewicz]
VO-1514	Healy	63.85666	148.84000	488	87AST96	Miocene	Suntrama Fm	0.37	USGS [Pawlewicz]
VO-1515	Healy	63.85666	148.84000	488	87AST97	Miocene	Suntrama Fm	0.37	USGS [Pawlewicz]
VO-1516	Healy	63.85666	148.84333	457	84AKR04	Tertiary		0.39	PGS - Record # 501059500300000010
VO-1517	Healy	63.85666	148.85333	427	87AST98	Oligocene	Sanctuary Fm	0.42	USGS [Pawlewicz]
VO-1518	Healy	63.85666	148.85333	427	87AST99	Oligocene	Sanctuary Fm	0.38	USGS [Pawlewicz]
VO-1519	Healy	63.85666	148.92000	427	87AST92	Miocene	Lignite Creek Fm Fm	0.31	USGS [Pawlewicz]
VO-1520	Healy	63.85666	148.92000	427	87AST93	Miocene	Lignite Creek Fm Fm	0.34	USGS [Pawlewicz]
VO-1521	Healy	63.857	148.833		78A-1C	Miocene	Healy Cr.	0.36	Shell Oil Company
VO-1522	Healy	63.857	148.833		78A-1D	Miocene	Healy Cr.	0.28	Shell Oil Company
VO-1523	Healy	63.857	148.833		78A-1F	Miocene	Healy Cr.	0.37	Shell Oil Company
VO-1524	Healy	63.857	148.833		78A-1G	Miocene	Healy Cr.	0.30	Shell Oil Company
VO-1525	Healy	63.857	148.833		78A-1K	Miocene	Sanctuary	0.24	Shell Oil Company
VO-1526	Healy	63.857	148.833		78A-1L	Miocene	Sanctuary	0.24	Shell Oil Company
VO-1527	Healy	63.857	148.833		78A-1AA	Miocene	Lignite Cr.	0.24	Shell Oil Company
VO-1528	Healy	63.857	148.833		78A-1BB	Miocene	Lignite Cr.	0.30	Shell Oil Company
VO-1529	Healy	63.858	148.738		UA 105	Miocene	Suntrana	0.26	Shell Oil Company
VO-1530	Healy	63.85833	148.85333	457	86AST193	Miocene	Suntrama Fm	0.33	USGS [Pawlewicz]
VO-1531	Healy	63.85833	148.85333	457	86AST195	Miocene	Suntrama Fm	0.36	USGS [Pawlewicz]
VO-1532	Healy	63.85833	148.85333	472	86AST197	Miocene	Suntrama Fm	0.49	USGS [Pawlewicz]
VO-1533	Healy	63.85833	148.85333	472	86AST200	Miocene	Suntrama Fm	0.34	USGS [Pawlewicz]
VO-1534	Healy	63.85833	148.85333	472	86AST223	Miocene	Suntrama Fm	0.24	USGS [Pawlewicz]
VO-1535	Healy	63.85833	148.85333	472	86AST225	Miocene	Suntrama Fm	0.24	USGS [Pawlewicz]
VO-1536	Healy	63.85833	148.85333	472	86AST230	Miocene	Suntrama Fm	0.18	USGS [Pawlewicz]
VO-1537	Healy	63.85833	148.85333	472	86AST232	Miocene	Suntrama Fm	0.29	USGS [Pawlewicz]
VO-1538	Healy	63.85833	148.85333	472	86AST234	Miocene	Suntrama Fm	0.33	USGS [Pawlewicz]
VO-1539	Healy	63.85833	148.85333	488	86AST237	Miocene	Suntrama Fm	0.32	USGS [Pawlewicz]
VO-1540	Healy	63.85833	148.85333	488	86AST239	Miocene	Suntrama Fm	0.30	USGS [Pawlewicz]
VO-1541	Healy	63.85833	148.85333	503	86AST246	Miocene	Lignite Creek Fm Fm	0.23	USGS [Pawlewicz]
VO-1542	Healy	63.85833	148.85333	503	86AST248	Miocene	Lignite Creek Fm Fm	0.27	USGS [Pawlewicz]
VO-1543	Healy	63.85833	148.85333	503	86AST253	Miocene	Lignite Creek Fm Fm	0.26	USGS [Pawlewicz]
VO-1544	Healy	63.85833	148.85333	503	86AST258	Miocene	Lignite Creek Fm Fm	0.30	USGS [Pawlewicz]
VO-1545	Healy	63.85833	148.85333	503	86AST260	Miocene	Lignite Creek Fm Fm	0.29	USGS [Pawlewicz]
VO-1546	Healy	63.85833	148.85333	503	86AST262	Miocene	Lignite Creek Fm Fm	0.27	USGS [Pawlewicz]
VO-1547	Healy	63.85833	148.85333	518	86AST267	Miocene	Lignite Creek Fm Fm	0.25	USGS [Pawlewicz]
VO-1548	Healy	63.85833	148.85333	533	86AST274	Miocene	Lignite Creek Fm Fm	0.24	USGS [Pawlewicz]
VO-1549	Healy	63.85833	148.85333	533	86AST276	Miocene	Lignite Creek Fm Fm	0.25	USGS [Pawlewicz]
VO-1550	Healy	63.85833	148.85333	533	86AST279	Miocene	Lignite Creek Fm Fm	0.23	USGS [Pawlewicz]
VO-1551	Healy	63.85833	148.85333	533	86AST284	Miocene	Lignite Creek Fm Fm	0.24	USGS [Pawlewicz]
VO-1552	Healy	63.85833	148.85333	533	86AST285	Miocene	Lignite Creek Fm Fm	0.29	USGS [Pawlewicz]
VO-1553	Healy	63.85833	148.85333	533	86AST295	Oligocene	Grubstake Fm	0.32	USGS [Pawlewicz]
VO-1554	Healy	63.85833	148.85333	533	86AST294	Oligocene	Grubstake Fm	0.29	USGS [Pawlewicz]
VO-1555	Healy	63.85833	148.85333	533	86AST293	Oligocene	Grubstake Fm	0.29	USGS [Pawlewicz]
VO-1556	Healy	63.85833	148.85333	533	86AST292A	Oligocene	Grubstake Fm	0.31	USGS [Pawlewicz]
VO-1557	Healy	63.85833	148.85333	533	86AST291	Oligocene	Grubstake Fm	0.30	USGS [Pawlewicz]
VO-1558	Healy	63.85833	148.85333	533	86AST289A	Oligocene	Grubstake Fm	0.83	USGS [Pawlewicz]
VO-1559	Healy	63.85833	148.85333	533	86AST288	Oligocene	Grubstake Fm	1.11	USGS [Pawlewicz]
VO-1560	Healy	63.85833	148.85333	533	86AST286	Oligocene	Grubstake Fm	0.30	USGS [Pawlewicz]
VO-1561	Healy	63.85833	148.85333	533	86AST299A	Oligocene	Grubstake Fm	0.28	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1562	Healy	63.85833	148.85333	472	86AST198	Miocene	Suntrama Fm	0.58	USGS [Pawlewicz]
VO-1563	Healy	63.85833	148.85333	472	86AST199	Miocene	Suntrama Fm	0.58	USGS [Pawlewicz]
VO-1564	Healy	63.85833	148.85333	472	86AST222	Miocene	Suntrama Fm	0.35	USGS [Pawlewicz]
VO-1565	Healy	63.85833	148.85333	472	86AST233	Miocene	Suntrama Fm	0.34	USGS [Pawlewicz]
VO-1566	Healy	63.85833	148.85333	488	86AST236	Miocene	Suntrama Fm	0.31	USGS [Pawlewicz]
VO-1567	Healy	63.85833	148.85333	503	86AST247	Miocene	Lignite Creek Fm Fm	0.31	USGS [Pawlewicz]
VO-1568	Healy	63.85833	148.85333	503	86AST249	Miocene	Lignite Creek Fm Fm	0.45	USGS [Pawlewicz]
VO-1569	Healy	63.85833	148.85333	503	86AST252	Miocene	Lignite Creek Fm Fm	0.31	USGS [Pawlewicz]
VO-1570	Healy	63.85833	148.85333	503	86AST259	Miocene	Lignite Creek Fm Fm	0.26	USGS [Pawlewicz]
VO-1571	Healy	63.85833	148.85333	503	86AST261	Miocene	Lignite Creek Fm Fm	0.29	USGS [Pawlewicz]
VO-1572	Healy	63.85833	148.85333	533	86AST273	Miocene	Lignite Creek Fm Fm	0.33	USGS [Pawlewicz]
VO-1573	Healy	63.85833	148.85333	533	86AST275	Miocene	Lignite Creek Fm Fm	0.30	USGS [Pawlewicz]
VO-1574	Healy	63.85833	148.85333	533	86AST278	Miocene	Lignite Creek Fm Fm	0.31	USGS [Pawlewicz]
VO-1575	Healy	63.85833	148.85333	457	87AST107	Miocene	Suntrama Fm	0.32	USGS [Pawlewicz]
VO-1576	Healy	63.86166	148.85333	564	84AKR41A	Tertiary		0.20	PGS - Record # 501059500600000010
VO-1577	Healy	63.86166	148.85333	564	84ACK43A	Tertiary		0.22	PGS - Record # 501059500700000010
VO-1578	Healy	63.86166	148.85333	564	84ACK45	Tertiary		0.30	PGS - Record # 501059500800000010
VO-1579	Healy	63.86166	148.85333	564	84ACK48	Tertiary		0.18	PGS - Record # 501059500900000010
VO-1580	Healy	63.86166	148.85333	564	84ACK50	Tertiary		0.21	PGS - Record # 501059501000000010
VO-1581	Healy	63.900	148.900		UA 130	Miocene	Suntrana	0.25	Shell Oil Company
VO-1582	Healy	63.90055	148.91388	503	85AST21	Miocene	Suntrama Fm	0.25	USGS [Pawlewicz]
VO-1583	Healy	63.90055	148.91388	503	85AST22	Miocene	Suntrama Fm	0.31	USGS [Pawlewicz]
VO-1584	Healy	63.902	148.933		UA 100	Miocene	Suntrana	0.24	Shell Oil Company
VO-1585	Healy	63.902	148.933		UA 101	Miocene	Suntrana	0.24	Shell Oil Company
VO-1586	Healy	63.902	148.933		UA 102	Miocene	Suntrana	0.25	Shell Oil Company
VO-1587	Healy	63.902	148.933		UA 119	Miocene	Suntrana	0.24	Shell Oil Company
VO-1588	Healy	63.90250	148.93166	518	85AST18	Miocene	Suntrama Fm	0.34	USGS [Pawlewicz]
VO-1589	Healy	63.90250	148.93166	518	85AST17	Miocene	Suntrama Fm	0.34	USGS [Pawlewicz]
VO-1590	Healy	63.90250	148.93166	518	85AST16	Miocene	Suntrama Fm	0.37	USGS [Pawlewicz]
VO-1591	Healy	63.90250	148.93166	518	85AST15	Miocene	Suntrama Fm	4.57	USGS [Pawlewicz]
VO-1592	Healy	63.90250	148.93166	518	85AST14	Miocene	Suntrama Fm	0.20	USGS [Pawlewicz]
VO-1593	Healy	63.90250	148.93166	518	85AST13	Miocene	Suntrama Fm	0.32	USGS [Pawlewicz]
VO-1594	Healy	63.90250	148.93166	518	85AST12	Miocene	Suntrama Fm	0.35	USGS [Pawlewicz]
VO-1595	Healy	63.90277	148.91500	518	85AST19	Miocene	Suntrama Fm	0.37	USGS [Pawlewicz]
VO-1596	Healy	63.915	148.900		UA 129	Miocene	Suntrana	0.27	Shell Oil Company
VO-1597	Healy	63.91666	148.69555	625	86AST10	Oligocene	Sanctuary Fm	0.27	USGS [Pawlewicz]
VO-1598	Healy	63.91666	148.69555	625	86AST11	Oligocene	Sanctuary Fm	0.29	USGS [Pawlewicz]
VO-1599	Healy	63.91666	148.69555	625	86AST12	Oligocene	Sanctuary Fm	0.29	USGS [Pawlewicz]
VO-1600	Healy	63.91805	148.85666	457	85AST23	Miocene	Healy Creek Fm	0.34	USGS [Pawlewicz]
VO-1601	Healy	63.91805	148.85666	457	85AST27	Miocene	Healy Creek Fm	0.30	USGS [Pawlewicz]
VO-1602	Healy	63.92166	148.68500	640	89AST-1	Oligocene	Sanctuary Fm	0.33	USGS [Pawlewicz]
VO-1603	Healy	63.92166	148.68500	640	89AST-2	Oligocene	Sanctuary Fm	0.40	USGS [Pawlewicz]
VO-1604	Healy	63.92166	148.68500	640	89AST-3	Oligocene	Sanctuary Fm	0.44	USGS [Pawlewicz]
VO-1605	Healy	63.92166	148.68500	640	89AST-4	Oligocene	Sanctuary Fm	0.49	USGS [Pawlewicz]
VO-1606	Healy	63.92166	148.68500	640	89AST-5	Oligocene	Sanctuary Fm	0.43	USGS [Pawlewicz]
VO-1607	Healy	63.92166	148.68500	640	89AST-6	Oligocene	Sanctuary Fm	0.39	USGS [Pawlewicz]
VO-1608	Healy	63.92166	148.68500	640	89AST-7	Oligocene	Sanctuary Fm	0.37	USGS [Pawlewicz]
VO-1609	Healy	63.92166	148.68500	640	89AST-8	Oligocene	Sanctuary Fm	0.36	USGS [Pawlewicz]
VO-1610	Healy	63.92166	148.68500	640	89AST-9	Oligocene	Sanctuary Fm	0.42	USGS [Pawlewicz]
VO-1611	Healy	63.92166	148.68500	640	89AST-1	Tertiary	Sanctuary Fm	0.33	USGS [Pawlewicz]
VO-1612	Healy	63.92166	148.68500	640	89AST-2	Tertiary	Sanctuary Fm	0.40	USGS [Pawlewicz]
VO-1613	Healy	63.92166	148.68500	640	89AST-3	Tertiary	Sanctuary Fm	0.44	USGS [Pawlewicz]
VO-1614	Healy	63.92166	148.68500	640	89AST-4	Tertiary	Sanctuary Fm	0.49	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1615	Healy	63.92166	148.68500	640	89AST-5	Tertiary	Sanctuary Fm	0.43	USGS [Pawlewicz]
VO-1616	Healy	63.92166	148.68500	640	89AST-6	Tertiary	Sanctuary Fm	0.39	USGS [Pawlewicz]
VO-1617	Healy	63.92166	148.68500	640	89AST-7	Tertiary	Sanctuary Fm	0.37	USGS [Pawlewicz]
VO-1618	Healy	63.92166	148.68500	640	89AST-8	Tertiary	Sanctuary Fm	0.36	USGS [Pawlewicz]
VO-1619	Healy	63.92166	148.68500	640	89AST-9	Tertiary	Sanctuary Fm	0.42	USGS [Pawlewicz]
VO-1620	Healy	63.92416	148.47361	1158	85AST111		Birch Fm	2.55	USGS [Pawlewicz]
VO-1621	Healy	63.92666	148.47000	1128	85AST112	Miocene	Healy Creek Fm	0.43	USGS [Pawlewicz]
VO-1622	Healy	63.92944	147.48722		SC1-5	Oligocene-Miocene	Healy Creek Fm	0.48	Merritt, 1985b
VO-1623	Healy	63.92944	147.48722		SC1-8	Oligocene-Miocene	Healy Creek Fm	0.38	Merritt, 1985b
VO-1624	Healy	63.92944	147.48722		SC1-10	Oligocene-Miocene	Healy Creek Fm	0.42	Merritt, 1985b
VO-1625	Healy	63.92944	147.48722		SC1-13	Oligocene-Miocene	Healy Creek Fm	0.42	Merritt, 1985b
VO-1626	Healy	63.92944	147.48722		SC1-14	Oligocene-Miocene	Healy Creek Fm	0.37	Merritt, 1985b
VO-1627	Healy	63.93500	147.43111		RMC1-1	Tertiary		0.50	Merritt, 1985b
VO-1628	Healy	63.93500	147.43111		RMC1-2	Tertiary		0.53	Merritt, 1985b
VO-1629	Healy	63.93500	147.43111		RMC1-3	Tertiary		0.48	Merritt, 1985b
VO-1630	Healy	63.93750	148.58944		TC1-1	Miocene	Suntrana Fm	0.34	Merritt, 1985b
VO-1631	Healy	63.943	148.635		UA 141	Miocene	Suntrana	0.26	Shell Oil Company
VO-1632	Healy	63.94306	148.63806		LCT1-2	Miocene	Suntrana Fm	0.27	Merritt, 1985b
VO-1633	Healy	63.94306	148.63806		LCT1-4	Miocene	Suntrana Fm	0.32	Merritt, 1985b
VO-1634	Healy	63.94528	147.41056		RAA2	Tertiary		0.44	Merritt, 1985b
VO-1635	Healy	63.94528	148.68139		LCT5-1	Miocene	Suntrana Fm	0.28	Merritt, 1985b
VO-1636	Healy	63.94528	148.68139		LCT5-2	Miocene	Suntrana Fm	0.32	Merritt, 1985b
VO-1637	Healy	63.94528	148.68139		LCT5-3	Miocene	Suntrana Fm	0.27	Merritt, 1985b
VO-1638	Healy	63.96667	147.99861		MC2-2	Tertiary		0.42	Merritt, 1985b
VO-1639	Healy	63.96667	147.99861		MC2-19	Tertiary		0.44	Merritt, 1985b
VO-1640	Healy	63.97111	147.99722		MC1-2	Tertiary		0.36	Merritt, 1985b
VO-1641	Healy	63.97333	148.74556		JD1-1	Miocene	Suntrana Fm	0.28	Merritt, 1985b
VO-1642	Healy	63.97333	148.74556		JD1-2	Miocene	Suntrana Fm	0.32	Merritt, 1985b
VO-1643	Healy	63.975	148.768		UA 120	Miocene	Suntrana	0.22	Shell Oil Company
VO-1644	Healy	63.98333	147.91194		MMb-1	Oligocene-Miocene	Healy Creek Fm	0.39	Merritt, 1985b
VO-1645	Healy	63.98333	147.91194		MMb-3	Oligocene-Miocene	Healy Creek Fm	0.45	Merritt, 1985b
VO-1646	Healy	63.98333	147.91194		MMb-5	Oligocene-Miocene	Healy Creek Fm	0.41	Merritt, 1985b
VO-1647	Healy	63.98667	147.83972		MMb-1	Oligocene-Miocene	Healy Creek Fm	0.39	Merritt, 1986a
VO-1648	Healy	63.98667	147.83972		MMb-3	Oligocene-Miocene	Healy Creek Fm	0.45	Merritt, 1986a
VO-1649	Healy	63.98667	147.83972		MMb-5	Oligocene-Miocene	Healy Creek Fm	0.41	Merritt, 1986a
VO-1650	Healy	63.99333	147.84250		MM2-1	Miocene	Suntrana Fm	0.26	Merritt, 1986a
VO-1651	Healy	63.99333	147.84250		MM2-2	Miocene	Suntrana Fm	0.26	Merritt, 1986a
VO-1652	Healy	63.99333	147.84250		MM2-6	Miocene	Suntrana Fm	0.29	Merritt, 1986a
VO-1653	Healy	63.99333	147.92722		MM2-1	Miocene	Suntrana Fm	0.26	Merritt, 1985b
VO-1654	Healy	63.99333	147.92722		MM2-2	Miocene	Suntrana Fm	0.26	Merritt, 1985b
VO-1655	Healy	63.99333	147.92722		MM2-6	Miocene	Suntrana Fm	0.29	Merritt, 1985b
VO-1657	Howard Pass	68.54666	156.96083	655	80AMK 138C	Cretaceous	Fortress Mountain Fm	0.49	PGS - Record # 501119500900000010
VO-1658	Howard Pass	68.54666	156.96083	655	80AMK 138B	Cretaceous	Fortress Mountain Fm	0.45	PGS - Record # 501119500900000020
VO-1659	Howard Pass	68.54666	156.96083	655	80AMK 138A	Cretaceous	Fortress Mountain Fm	0.45	PGS - Record # 501119500900000030
VO-1660	Howard Pass	68.58000	157.08138	549	80AMK 137B	Cretaceous	Fortress Mountain Fm	0.52	PGS - Record # 501119501500000010
VO-1661	Howard Pass	68.69166	156.23555	351	80AMK 152	Cretaceous	Fortress Mountain Fm	0.54	PGS - Record # 501119501200000010
VO-1662	Howard Pass	68.71833	158.42833	488	65TR86.2			0.52	PGS - Record # 501119501800000010
VO-1663	Howard Pass	68.75500	158.44388	536	80AMK 167E	Cretaceous	Fortress Mountain Fm	0.60	PGS - Record # 501119501400000010
VO-1664	Howard Pass	68.75555	158.44388	536	80AMK 167D	Cretaceous	Fortress Mountain Fm	0.65	PGS - Record # 501119501400000020
VO-1665	Howard Pass	68.75638	158.44388	536	80AMK 167C	Cretaceous	Fortress Mountain Fm	0.61	PGS - Record # 501119501400000030
VO-1666	Howard Pass	68.75694	158.43694	536	80AMK 167B	Cretaceous	Fortress Mountain Fm	0.64	PGS - Record # 501119501400000040
VO-1667	Howard Pass	68.76138	158.15888	485	80AMK 145	Cretaceous	Fortress Mountain Fm	0.44	PGS - Record # 501119501000000010
VO-1668	Howard Pass	68.76472	158.16833	485	80AMK 147B	Cretaceous	Okpikruak Fm	0.55	PGS - Record # 501119501100000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1669	Howard Pass	68.76472	158.16833	485	80AMK 147A	Cretaceous	Okpikruak Fm	0.53	PGS - Record # 50111950110000020
VO-1670	Howard Pass	68.91555	156.02527	290	80AMK 157B	Cretaceous	Fortress Mountain Fm	0.57	PGS - Record # 50111950130000010
VO-1671	Hughes	66.322	153.792		74F-249A	Cretaceous		4.52	Shell Oil Company
VO-1672	Hughes	66.460	153.070		74F-252A	Cretaceous		1.42	Shell Oil Company
VO-1673	Icy Bay	59.988	143.883		68A-23	Oligocene	Poul Creek	0.64	Shell Oil Company
VO-1674	Icy Bay	59.988	143.883		68A-27	U. Eocene	Poul Creek	0.69	Shell Oil Company
VO-1675	Icy Bay	59.988	143.883		71E-4-6	Oligocene	Poul Creek	0.85	Shell Oil Company
VO-1676	Icy Bay	59.988	143.883		71E-4-5	Oligocene	Poul Creek	0.86	Shell Oil Company
VO-1677	Icy Bay	59.988	143.883		71E-4-4	Eocene	Poul Creek	0.91	Shell Oil Company
VO-1678	Icy Bay	59.988	143.883		71E-4-3	Eocene	Poul Creek	0.86	Shell Oil Company
VO-1679	Icy Bay	59.988	143.883		71E-4-2	Eocene	Poul Creek	0.91	Shell Oil Company
VO-1680	Icy Bay	59.988	143.883		71E-4-1	Eocene	Poul Creek	0.89	Shell Oil Company
VO-1681	Icy Bay	59.992	143.920		0019201			0.65	Chevron
VO-1682	Icy Bay	59.992	143.920		0019202			0.80	Chevron
VO-1683	Icy Bay	59.992	143.920		0019237			0.80	Chevron
VO-1684	Icy Bay	59.992	143.920		0019251	Tertiary		0.75	Chevron
VO-1685	Icy Bay	59.992	143.920		0040223			0.75	Chevron
VO-1686	Icy Bay	59.995	143.840		80R24	Eocene	Tokun	0.69	Shell Oil Company
VO-1687	Icy Bay	59.997	143.870		74L-43	Oligocene	Tokun?	0.58	Shell Oil Company
VO-1688	Iditarod	62.21944	157.48889	411	84BT79	Cretaceous	Kuskokwim Gp	4.72	USGS [Pawlewicz]
VO-1689	Iditarod	62.26139	157.82167	366	84BT283	Cretaceous	Kuskokwim Gp	4.72	USGS [Pawlewicz]
VO-1690	Iditarod	62.36306	157.92083	183	84BT99	Cretaceous	Kuskokwim Gp	4.29	USGS [Pawlewicz]
VO-1691	Iditarod	62.37556	157.85500	335	84AM5C	Cretaceous	Kuskokwim Gp	4.48	USGS [Pawlewicz]
VO-1692	Iditarod	62.37778	157.03500	533	84AAi529	Cretaceous	Kuskokwim Gp	2.31	USGS [Pawlewicz]
VO-1693	Iditarod	62.41333	157.03750	488	84BT250	Cretaceous	Kuskokwim Gp	3.90	USGS [Pawlewicz]
VO-1694	Iditarod	62.45111	157.47917	427	84AAi532C	Cretaceous	Kuskokwim Gp	1.36	USGS [Pawlewicz]
VO-1695	Iditarod	62.45500	156.95306	533	84BT248	Cretaceous	Kuskokwim Gp	2.86	USGS [Pawlewicz]
VO-1696	Iditarod	62.47833	157.65528	375	84AM129A	Cretaceous	Kuskokwim Gp	2.15	USGS [Pawlewicz]
VO-1697	Iditarod	62.51944	157.36944		83BT67	Cretaceous	Kuskokwim Gp	4.67	USGS [Pawlewicz]
VO-1698	Iditarod	62.52472	157.63611	488	84AM166E	Cretaceous	Kuskokwim Gp	2.49	USGS [Pawlewicz]
VO-1699	Iditarod	62.53028	157.21111		83BT58	Cretaceous	Kuskokwim Gp	2.29	USGS [Pawlewicz]
VO-1700	Iditarod	62.53056	157.38056		83BT65	Cretaceous	Kuskokwim Gp	1.27	USGS [Pawlewicz]
VO-1701	Iditarod	62.53333	157.30833		83GML61	Cretaceous	Kuskokwim Gp	1.22	USGS [Pawlewicz]
VO-1702	Iditarod	62.54111	157.38611		83MSL44	Cretaceous	Kuskokwim Gp	2.82	USGS [Pawlewicz]
VO-1703	Iditarod	62.54444	156.18750		83BT56	Cretaceous	Kuskokwim Gp	0.73	USGS [Pawlewicz]
VO-1704	Iditarod	62.54444	157.45972		83GL72	Cretaceous	Kuskokwim Gp	1.67	USGS [Pawlewicz]
VO-1705	Iditarod	62.56028	157.39028		83BT47	Cretaceous	Kuskokwim Gp	3.81	USGS [Pawlewicz]
VO-1706	Iditarod	62.59528	157.08889		83BT86	Cretaceous	Kuskokwim Gp	0.94	USGS [Pawlewicz]
VO-1707	Iditarod	62.60000	157.66806	393	84AM256A	Cretaceous	Kuskokwim Gp	3.39	USGS [Pawlewicz]
VO-1708	Iditarod	62.61250	157.43750		83BT32	Cretaceous	Kuskokwim Gp	3.85	USGS [Pawlewicz]
VO-1709	Iditarod	62.65083	157.01389		83BT82	Cretaceous	Kuskokwim Gp	0.83	USGS [Pawlewicz]
VO-1710	Iditarod	62.66944	157.47500		83BT18	Cretaceous	Kuskokwim Gp	3.89	USGS [Pawlewicz]
VO-1711	Iditarod	62.68778	157.61472	549	84AM249A	Cretaceous	Kuskokwim Gp	1.25	USGS [Pawlewicz]
VO-1712	Iditarod	62.71944	157.73472	244	84BT271	Cretaceous	Kuskokwim Gp	1.89	USGS [Pawlewicz]
VO-1713	Iditarod	62.72444	157.43056		83BT12	Cretaceous	Kuskokwim Gp	1.84	USGS [Pawlewicz]
VO-1714	Ikpikpuk River	69.02556	155.87944	549	78AAH 2 [Awuna River]	Cretaceous	Killik Tongue	0.58	PGS - Record # 50119950020000030
VO-1716	Ikpikpuk River	69.02667	155.87806	549	78AAH 3 [Awuna River]	Cretaceous	Killik Tongue	0.59	PGS - Record # 50119950020000020
VO-1715	Ikpikpuk River	69.02944	155.87333	549	78AAH 6 [Awuna River]	Cretaceous	Killik Tongue	0.58	PGS - Record # 50119950020000010
VO-1718	Ikpikpuk River	69.07583	156.00444	488	78AAH 1 [Section Creek]	Cretaceous	Tuhtu Fm	0.57	PGS - Record # 50119950030000040
VO-1717	Ikpikpuk River	69.07917	156.02167		78AAH 3 [Section Creek]	Cretaceous		0.57	PGS - Record # 50119950030000020
VO-1721	Ikpikpuk River	69.12083	153.29028	152	77ACH288 [Ninuluk Bluff]	U. Cretaceous	Seabee Fm	0.49	PGS - Record # 50119950010000090
VO-1719	Ikpikpuk River	69.12083	153.29167	152	77ACH296 [Ninuluk Bluff]	U. Cretaceous	Seabee Fm	0.55	PGS - Record # 50119950010000010
VO-1720	Ikpikpuk River	69.12083	153.29167	152	77ACH293 [Ninuluk Bluff]	U. Cretaceous	Seabee Fm	0.55	PGS - Record # 50119950010000040

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1722	Ikpikpuk River	69.12500	153.28889	152	77ACH276 [Ninuluk Bluff]	U. Cretaceous	Seabee Fm	0.52	PGS - Record # 501199500100000130
VO-1723	Ikpikpuk River	69.12917	153.18194	152	77ACH252 [Ninuluk Bluff]	U. Cretaceous	Seabee Fm	0.52	PGS - Record # 501199500100000200
VO-1724	Ikpikpuk River	69.12917	153.28194	152	77ACH250 [Ninuluk Bluff]	Cretaceous	Ninuluk Fm	0.55	PGS - Record # 501199500100000220
VO-1725	Ikpikpuk River	69.16917	155.00639		U-2SP65	Cretaceous	Nanushuk Gp	0.44	Rao and Smith, 1983
VO-1726	Iliamna	59.030	154.115		76B-79+0	Jurassic	Naknek	0.37	Shell Oil Company
VO-1727	Iliamna	59.030	154.115		76B-79+5	Jurassic	Naknek	0.65	Shell Oil Company
VO-1728	Iliamna	59.072	154.150		76B-77+0	Jurassic	Naknek	0.47	Shell Oil Company
VO-1729	Iliamna	59.082	153.753		76B-76+0	Jurassic	Naknek	0.37	Shell Oil Company
VO-1730	Iliamna	59.323	153.440		72J-4	U. Jurassic	Naknek	0.54	Shell Oil Company
VO-1731	Iliamna	59.323	153.440		72J-5	U. Jurassic	Naknek	0.49	Shell Oil Company
VO-1732	Iliamna	59.323	153.440		72J-7	U. Jurassic	Naknek	0.46	Shell Oil Company
VO-1733	Iliamna	59.449	153.895		76AKDM-9	U. Triassic	Kamishak	1.81	Shell Oil Company
VO-1734	Iliamna	59.587	153.567		C-3-	U. Jurassic	Naknek	2.22	Shell Oil Company
VO-1735	Iliamna	59.587	153.567		C-9-	Triassic	Kamishak	1.37	Shell Oil Company
VO-1736	Iliamna	59.587	153.567		C-12	Triassic	Kamishak	3.66	Shell Oil Company
VO-1737	Iliamna	59.587	153.567		C-23	Triassic	Kamishak	3.75	Shell Oil Company
VO-1738	Iliamna	59.587	153.567		C-47	U. Jurassic	Naknek	4.18	Shell Oil Company
VO-1739	Iliamna	59.587	153.567		C-50	Triassic	Kamishak	2.88	Shell Oil Company
VO-1740	Iliamna	59.643	153.588		61H803+5	Tertiary	Kenai	0.24	Shell Oil Company
VO-1741	Iliamna	59.670	153.032		76AK DM-8	U. Triassic	Kamishak	1.37	Shell Oil Company
VO-1742	Iliamna	59.670	153.032		76AK DM-20	U. Triassic	Kamishak	1.72	Shell Oil Company
VO-1743	Iliamna	59.670	153.032		748-149	U. Triassic	Kamishak	1.59	Shell Oil Company
VO-1744	Iliamna	59.745	153.255		73D20+30	M. Jurassic	Tuxedni	0.47	Shell Oil Company
VO-1745	Iliamna	59.760	153.225		73D17+0	M. Jurassic	Tuxedni	0.95	Shell Oil Company
VO-1746	Iliamna	59.760	153.225		73D17+650	M. Jurassic	Tuxedni	0.56	Shell Oil Company
VO-1747	Iliamna	59.760	153.225		73D17+475	M. Jurassic	Tuxedni	0.46	Shell Oil Company
VO-1748	Iliamna	59.760	153.225		77B30+1085	M. Jurassic	Fitz Cr. Baj	0.47	Shell Oil Company
VO-1749	Iliamna	59.760	153.225		77B30+450	M. Jurassic	Fitz Cr. Baj	0.51	Shell Oil Company
VO-1750	Iliamna	59.760	153.225		77B30+450	M. Jurassic	Fitz Cr. Baj	0.71	Shell Oil Company
VO-1751	Iliamna	59.760	153.225		77B28+30	M. Jurassic	Red Glacier	0.70	Shell Oil Company
VO-1752	Iliamna	59.760	153.255		77B33+190	Bathonian	Bowser	0.52	Shell Oil Company
VO-1753	Iliamna	59.760	153.255		77B33+70	Bathonian	Bowser	0.56	Shell Oil Company
VO-1754	Iliamna	59.760	153.255		77B32+150	Bathonian	Bowser	0.52	Shell Oil Company
VO-1755	Iliamna	59.760	153.255		77B32+2	Bathonian	Bowser	0.56	Shell Oil Company
VO-1756	Iliamna	59.810	153.183		76B90+0	M. Jurassic	Red Glacier	0.69	Shell Oil Company
VO-1757	Iliamna	59.810	153.183		76B90+50	M. Jurassic	Red Glacier	0.72	Shell Oil Company
VO-1758	Iliamna	59.810	153.183		76B90+80	M. Jurassic	Red Glacier	0.71	Shell Oil Company
VO-1759	Kantishna River	64.03500	150.19666	366	83PAD038	Tertiary		0.21	PGS - Record # 501279500100000020
VO-1760	Kantishna River	64.203	151.985		244-B / FSG553			2.17	British Petroleum
VO-1761	Kateel River	65.01527	158.41250	168	85APA51	Cretaceous		1.85	USGS [Pawlewicz]
VO-1762	Kateel River	65.05277	158.27083	152	85APA50	Cretaceous		1.94	USGS [Pawlewicz]
VO-1763	Kateel River	65.06944	158.23888	137	85APA49	Cretaceous		1.96	USGS [Pawlewicz]
VO-1764	Kateel River	65.09027	158.15833	91	85APA48	Cretaceous		2.12	USGS [Pawlewicz]
VO-1765	Kateel River	65.53888	158.20138	84	85APA52	Cretaceous		2.32	USGS [Pawlewicz]
VO-1766	Kenai	60.033	152.897		76B-93+0	M. Jurassic	Red Glacier	1.69	Shell Oil Company
VO-1767	Kenai	60.033	152.897		76B-93+60	M. Jurassic	Red Glacier	1.53	Shell Oil Company
VO-1768	Kenai	60.033	152.897		76B-93+120	M. Jurassic	Red Glacier	1.51	Shell Oil Company
VO-1769	Kenai	60.033	152.897		76B-93+180	M. Jurassic	Red Glacier	1.61	Shell Oil Company
VO-1770	Kenai	60.055	152.870		73D14+75	M. Jurassic	Tuxedni	0.73	Shell Oil Company
VO-1771	Kenai	60.057	151.655		UA 122	Miocene	Beluga	0.23	Shell Oil Company
VO-1772	Kenai	60.063	152.723		61J--22	U. Jurassic	Tuxedni	0.59	Shell Oil Company
VO-1773	Kenai	60.078	151.493		78H-3K	Pliocene	Sterling	0.32	Shell Oil Company
VO-1774	Kenai	60.078	151.493		78H-3E	Pliocene	Sterling	0.28	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1775	Kenai	60.078	151.493		78H-31+J	Pliocene	Sterling	0.33	Shell Oil Company
VO-1776	Kenai	60.105	152.663		61J--19	U. Jurassic	Naknek	0.40	Shell Oil Company
VO-1777	Kenai	60.105	152.835		73D10+105	M. Jurassic	Tuxedni	0.39	Shell Oil Company
VO-1778	Kenai	60.110	152.575		76B99+20	U. Jurassic	Naknek	1.08	Shell Oil Company
VO-1779	Kenai	60.110	152.575		76B99+0	U. Jurassic	Naknek	0.95	Shell Oil Company
VO-1780	Kenai	60.113	151.570		78H-2E	Pliocene	Sterling	0.27	Shell Oil Company
VO-1781	Kenai	60.113	151.570		78H-2L	Pliocene	Sterling	0.30	Shell Oil Company
VO-1782	Kenai	60.120	152.752		61J--21	U. Jurassic	Tuxedni	0.73	Shell Oil Company
VO-1783	Kenai	60.120	152.780		61J--20	U. Jurassic	Tuxedni	0.73	Shell Oil Company
VO-1784	Kenai	60.120	152.897		76B-92+0	M. Jurassic	Red Glacier	1.00	Shell Oil Company
VO-1785	Kenai	60.120	152.897		76B-92+120	M. Jurassic	Red Glacier	0.95	Shell Oil Company
VO-1786	Kenai	60.120	152.897		76B-92+174	M. Jurassic	Red Glacier	0.92	Shell Oil Company
VO-1787	Kenai	60.120	152.897		76B-92+250	M. Jurassic	Red Glacier	1.44	Shell Oil Company
VO-1788	Kenai	60.975	151.717		61H-520+-1	Tertiary	Kenai	0.25	Shell Oil Company
VO-1789	Kenai	60.975	151.717		61H-516+-4	Tertiary	Kenai	0.29	Shell Oil Company
VO-1790	Kenai	60.975	151.717		61H-505+-39	Tertiary	Kenai	0.32	Shell Oil Company
VO-1791	Kenai	60.975	151.717		61H-504+-107	Tertiary	Kenai	0.29	Shell Oil Company
VO-1792	Killik River	68.04444	155.56805	1524	81TN-3	Mississippian	Kayak Sh	3.74	PGS - Record # 501379505100000040
VO-1793	Killik River	68.05277	154.39444	1021	78ABE 173A	Devonian	Hunt Fork Sh	3.93	PGS - Record # 501379501000000010
VO-1794	Killik River	68.13750	154.08388	991	78ABE 169A	Devonian	Hunt Fork Sh	4.61	PGS - Record # 501379500900000010
VO-1795	Killik River	68.18472	154.79861	1829	81TN-7-GX	Devonian-Mississippian	Kanayut Cong	2.45	PGS - Record # 501379505100000010
VO-1796	Killik River	68.18472	154.79861	1829	81TN-6-GX2	Devonian-Mississippian	Kanayut Cong	3.05	PGS - Record # 501379505100000020
VO-1797	Killik River	68.18472	154.79861	1829	81TN-6-GX1	Mississippian	Kayak Sh	2.96	PGS - Record # 501379505100000030
VO-1798	Killik River	68.19027	155.23333	1335	79ABE 51	Devonian-Mississippian	Kanayut Cong	2.59	PGS - Record # 501379504200000010
VO-1799	Killik River	68.23277	153.66388	1829	78ABE 163A	Devonian	Hunt Fork Sh	2.73	PGS - Record # 501379508000000010
VO-1800	Killik River	68.30000	155.93333	890	79ABE 76B	Mississippian	Kayak Sh	2.89	PGS - Record # 501379504300000010
VO-1801	Killik River	68.30972	153.85888	1036	78ARR 43	Devonian-Mississippian	Kanayut Cong	1.51	PGS - Record # 501379500700000010
VO-1802	Killik River	68.36833	154.12166	732	82AKY-30C	Triassic-Jurassic	Otuk Fm	1.60	PGS - Record # 501379506900000010
VO-1803	Killik River	68.38333	154.32166	732	82AKT-9			1.75	PGS - Record # 501379506800000010
VO-1804	Killik River	68.45333	155.73333	610	75TR46.C	Jurassic	Etiluluk Fm	0.28	PGS - Record # 501379504800000010
VO-1805	Killik River	68.45333	155.73333	610	75TR46-T	Mississippian-Pennsylvanian	Lisburne Gp	0.29	PGS - Record # 501379504800000020
VO-1806	Killik River	68.48000	155.71166	610	75MU48.3-5	Mississippian	Kuna Fm	0.38	PGS - Record # 501379504700000010
VO-1807	Killik River	68.48000	155.71166	610	75-WR-27.4	Cretaceous	Okpikruak Fm	0.59	PGS - Record # 501379505000000010
VO-1808	Killik River	68.48000	155.71166	610	75-WR-27.2	Cretaceous	Okpikruak Fm	0.57	PGS - Record # 501379505000000020
VO-1809	Killik River	68.48000	155.71166	610	75-WR-23.1	Cretaceous	Okpikruak Fm	0.53	PGS - Record # 501379505000000030
VO-1810	Killik River	68.48000	155.71166	610	75-WR-19.1	Cretaceous	Okpikruak Fm	0.40	PGS - Record # 501379505000000040
VO-1811	Killik River	68.48000	155.71166	610	75-WR-8.7	Jurassic	Blankenship Mbr	0.37	PGS - Record # 501379505000000050
VO-1812	Killik River	68.48000	155.71166	610	75-WR-8.3	Jurassic	Blankenship Mbr	0.38	PGS - Record # 501379505000000060
VO-1813	Killik River	68.48000	155.71166	610	75-WR-1.24	Jurassic	Blankenship Mbr	0.40	PGS - Record # 501379504400000080
VO-1814	Killik River	68.48000	155.71166	610	75-WR-1.20	Jurassic	Blankenship Mbr	0.50	PGS - Record # 501379505000000090
VO-1815	Killik River	68.48000	155.71166	610	75-WR-1.16	Jurassic	Blankenship Mbr	0.54	PGS - Record # 501379505000000100
VO-1816	Killik River	68.48000	155.71166	610	75-WR-1.9	Jurassic	Blankenship Mbr	0.42	PGS - Record # 501379505000000110
VO-1817	Killik River	68.48000	155.71166	610	75-WR-1.1	Jurassic	Blankenship Mbr	0.29	PGS - Record # 501379505000000120
VO-1818	Killik River	68.61888	153.02805	488	80AMK 116	Cretaceous	Fortress Mountain Fm	0.63	PGS - Record # 501379504500000010
VO-1819	Killik River	68.63833	155.75694	526	80AMK 159D	Cretaceous	Fortress Mountain Fm	0.58	PGS - Record # 501379504400000010
VO-1820	Killik River	68.63833	155.76138	526	80AMK 159C	Cretaceous	Fortress Mountain Fm	0.73	PGS - Record # 501379504400000020
VO-1843	Killik River	68.84722	153.96389	183	77AAH 5 [Killik Bend]	Cretaceous	Killik Tongue	0.83	PGS - Record # 501379500100000080
VO-1825	Killik River	68.85333	153.36833		78AAH 2 [Killik Type section]	Cretaceous		0.60	PGS - Record # 501379500200000080
VO-1823	Killik River	68.86333	153.38278		78AAH 19 [Killik Type section]	Cretaceous		0.66	PGS - Record # 501379500200000030
VO-1822	Killik River	68.86556	153.38889		78AAH 23 [Killik Type section]	Cretaceous		0.71	PGS - Record # 501379500200000020
VO-1821	Killik River	68.86750	153.39167	244	78AAH 25 [Killik Type section]	Cretaceous	Killik Tongue	0.57	PGS - Record # 501379500200000010
VO-1826	Killik River	68.87889	155.10583	305	78ACH 3 [Kurupa anticline]	Cretaceous	Tuktu Fm	0.61	PGS - Record # 5013795003000000230
VO-1836	Killik River	68.87944	155.10583	305	78ACH 8 [Kurupa anticline]	Cretaceous		0.60	PGS - Record # 5013795003000000210

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1835	Killik River	68.88056	155.10583	305	78ACH 19 [Kurupa anticline]	Cretaceous		0.54	PGS - Record # 501379500300000180
VO-1834	Killik River	68.88083	155.10583	305	78ACH 22 [Kurupa anticline]	Cretaceous		0.52	PGS - Record # 501379500300000170
VO-1833	Killik River	68.88139	155.10556	305	78ACH25A [Kurupa anticline]	Cretaceous		0.62	PGS - Record # 501379500300000160
VO-1832	Killik River	68.88306	155.10556	305	78ACH 36 [Kurupa anticline]	Cretaceous		0.61	PGS - Record # 501379500300000140
VO-1831	Killik River	68.89111	155.10556	305	78ACH 51 [Kurupa anticline]	Cretaceous		0.64	PGS - Record # 501379500300000120
VO-1830	Killik River	68.89389	155.10556	305	78ACH 56 [Kurupa anticline]	Cretaceous		0.60	PGS - Record # 501379500300000100
VO-1829	Killik River	68.89944	155.10528	305	78ACH 77 [Kurupa anticline]	Cretaceous		0.57	PGS - Record # 501379500300000090
VO-1828	Killik River	68.90806	155.09222	305	78ACH107 [Kurupa anticline]	Cretaceous		0.63	PGS - Record # 501379500300000050
VO-1824	Killik River	68.91111	153.37917		78AAH 15 [Killik Type section]	Cretaceous		0.62	PGS - Record # 501379500200000050
VO-1827	Killik River	68.91778	155.07556	305	78ACH111 [Kurupa anticline]	Cretaceous		0.62	PGS - Record # 501379500300000030
VO-1837	Killik River	68.95972	153.54722	183	78ARS7 [Niakogan Tongue]	Cretaceous	Niakogan Tongue	0.58	PGS - Record # 501379500400000010
VO-1838	Killik River	68.97056	153.55194	244	78ARS2 [Niakogan Tongue]	Cretaceous	Niakogan Tongue	0.56	PGS - Record # 501379500400000020
VO-1839	Killik River	68.97500	153.96111	183	77AAH 18 [Killik Bend]	Cretaceous	Killik Tongue	0.80	PGS - Record # 501379500100000010
VO-1840	Killik River	68.97778	153.96250	183	77AAH 13 [Killik Bend]	Cretaceous	Killik Tongue	0.76	PGS - Record # 501379500100000020
VO-1841	Killik River	68.97861	153.96250	183	77AAH 11 [Killik Bend]	Cretaceous	Killik Tongue	0.63	PGS - Record # 501379500100000040
VO-1842	Killik River	68.98000	153.96389	183	77AAH 8 [Killik Bend]	Cretaceous	Killik Tongue	0.60	PGS - Record # 501379500100000060
VO-1844	Killik River	68.98194	153.96528	183	77AAH 1 [Killik Bend]	Cretaceous	Killik Tongue	0.84	PGS - Record # 501379500100000090
VO-1845	Kodiak	57.172	153.000		73D-63	Eocene-Paleocene	Sitkilidak	0.70	Shell Oil Company
VO-1846	Kodiak	57.172	153.000		73D-64	Eocene-Paleocene	Sitkilidak	0.77	Shell Oil Company
VO-1847	Kodiak	57.172	153.000		73D-65	Eocene-Paleocene	Sitkilidak	0.67	Shell Oil Company
VO-1848	Kodiak	57.172	153.000		73D-66	Eocene-Paleocene	Sitkilidak	0.75	Shell Oil Company
VO-1849	Kodiak	57.185	153.000		73D-76	Eocene-Paleocene	Sitkilidak	0.86	Shell Oil Company
VO-1850	Kodiak	57.188	153.065		73D-62	Paleocene?	Ghost Rocks	1.36	Shell Oil Company
VO-1851	Kodiak	57.290	152.703		73D-60	Eocene-Paleocene	Sitkilidak	1.12	Shell Oil Company
VO-1852	Kodiak	57.375	152.635		73D-55	Paleocene?	Ghost Rocks	1.84	Shell Oil Company
VO-1853	Kodiak	57.375	152.713		73D-54	Eocene-Paleocene	Sitkilidak	0.92	Shell Oil Company
VO-1854	Kodiak	57.387	152.300		73D-52	Eocene-Paleocene	Sitkilidak	0.75	Shell Oil Company
VO-1855	Kodiak	57.402	152.762		73D-53	Eocene-Paleocene	Sitkilidak	0.80	Shell Oil Company
VO-1856	Kodiak	57.430	152.342		73D-51	Eocene-Paleocene	Sitkilidak	0.78	Shell Oil Company
VO-1857	Kodiak	57.430	152.342		899+50	Miocene	Narrow Cape	0.27	Shell Oil Company
VO-1858	Kodiak	57.433	152.320		73D-58	Miocene?	Narrow Cape	0.72	Shell Oil Company
VO-1859	Kodiak	57.608	152.367		12	Paleocene	Ghost Rocks Fm	2.95	Fisher, 1980
VO-1860	Kodiak	57.722	153.912		73D-61	Triassic?	Black Cape	2.32	Shell Oil Company
VO-1861	Kwiguk	62.060	163.360		R-178	Cretaceous		2.59	Shell Oil Company
VO-1862	Kwiguk	62.060	163.360		R-191	Cretaceous		2.27	Shell Oil Company
VO-1863	Kwiguk	62.060	163.360		R-209	Cretaceous		2.06	Shell Oil Company
VO-1864	Kwiguk	62.060	163.360		R-291	Cretaceous		1.18	Shell Oil Company
VO-1865	Kwiguk	62.060	163.360		R-300	Cretaceous		1.38	Shell Oil Company
VO-1866	Lime Hills	61.363	155.687		109 / FSF051			4.85	British Petroleum
VO-1867	Lime Hills	61.373	153.592		76B1	Tertiary		3.40	Shell Oil Company
VO-1868	Lime Hills	61.373	153.592		76B2	Tertiary		1.28	Shell Oil Company
VO-1869	Lime Hills	61.373	153.592		76B7	Tertiary		1.36	Shell Oil Company
VO-1870	Lime Hills	61.373	153.592		76B18A	?		0.39	Shell Oil Company
VO-1871	Lime Hills	61.373	153.592		76B21	Tertiary		0.34	Shell Oil Company
VO-1872	Lime Hills	61.373	153.592		76B22	Tertiary		0.34	Shell Oil Company
VO-1873	Lime Hills	61.373	153.592		76B24	Tertiary		0.27	Shell Oil Company
VO-1874	Lime Hills	61.373	153.592		76B25-6	Tertiary	Chickaloon	0.46	Shell Oil Company
VO-1875	Lime Hills	61.455	155.465		199-B / FSF107			1.97	British Petroleum
VO-1876	Lime Hills	61.455	155.465		199-A-1 / FSF105			2.15	British Petroleum
VO-1877	Lime Hills	61.472	155.288		169-B / FSF082			2.80	British Petroleum
VO-1878	Lime Hills	61.490	154.420		77A100+15	U. Jurassic	Naknek	0.62	Shell Oil Company
VO-1879	Lime Hills	61.512	154.410		77A102+680	L. Cretaceous		0.38	Shell Oil Company
VO-1880	Lime Hills	61.512	154.410		77A102+320	L. Cretaceous		0.51	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1881	Lime Hills	61.512	154.410		77A102+170	L. Cretaceous		1.04	Shell Oil Company
VO-1882	Lime Hills	61.580	155.135		011-A / FSE975			0.79	British Petroleum
VO-1883	Lime Hills	61.662	155.308		163-A / FSF077			3.48	British Petroleum
VO-1884	Lime Hills	61.667	155.265		142-A / FSF069			2.87	British Petroleum
VO-1885	Lime Hills	61.79028	154.47361		89WG105	Pennsylvanian	Mystic Sequence	5.13	USGS [Pawlewicz]
VO-1886	Livengood	65.15500	149.33333	107	87AST32	Cretaceous	JKs map unit	5.20	USGS [Pawlewicz]
VO-1887	Livengood	65.15500	149.33333	107	87AST34	Cretaceous	JKs map unit	0.31	USGS [Pawlewicz]
VO-1888	Livengood	65.30500	149.11500	671	87AST52	Cretaceous	JKs map unit	3.24	USGS [Pawlewicz]
VO-1889	Livengood	65.30500	149.11500	671	87AST51	Cretaceous	JKs map unit	2.72	USGS [Pawlewicz]
VO-1890	Livengood	65.32499	148.30833	198	88AST-43A	Jurassic-Cretaceous		4.46	USGS [Pawlewicz]
VO-1891	Livengood	65.32499	148.30833	198	88AST-43B	Jurassic-Cretaceous		4.51	USGS [Pawlewicz]
VO-1892	Livengood	65.32499	148.30833	198	88AST-43C	Jurassic-Cretaceous		4.56	USGS [Pawlewicz]
VO-1893	Livengood	65.37500	148.93333	244	87AST36	Cretaceous	JKs map unit	5.18	USGS [Pawlewicz]
VO-1894	Livengood	65.37500	148.93333	244	87AST38	Cretaceous	JKs map unit	4.30	USGS [Pawlewicz]
VO-1895	Livengood	65.38666	148.25000	305	87AST54	Cretaceous	JKs map unit	4.26	USGS [Pawlewicz]
VO-1896	Livengood	65.405	148.243		72H-15	Jurassic-Cretaceous		1.80	Shell Oil Company
VO-1897	Livengood	65.405	148.243		72H-19	Jurassic-Cretaceous		4.52	Shell Oil Company
VO-1898	Livengood	65.405	148.243		72H-20	Jurassic-Cretaceous		5.57	Shell Oil Company
VO-1899	Livengood	65.405	148.243		72H-25	Cambrian	Argillite	2.73	Shell Oil Company
VO-1900	Livengood	65.40666	148.22000	411	87AST56	Cretaceous	JKs map unit	4.26	USGS [Pawlewicz]
VO-1901	Livengood	65.40666	148.22000	411	87AST58	Cretaceous	JKs map unit	4.61	USGS [Pawlewicz]
VO-1902	Livengood	65.40833	148.22666	411	87AST60			3.02	USGS [Pawlewicz]
VO-1903	Livengood	65.40833	148.22666	411	87AST61			5.49	USGS [Pawlewicz]
VO-1904	Livengood	65.41166	148.23000	411	87AST66	Cretaceous	JKs map unit	5.06	USGS [Pawlewicz]
VO-1905	Livengood	65.41333	148.24000	381	87AST88	Cretaceous	JKs map unit	5.23	USGS [Pawlewicz]
VO-1906	Livengood	65.41333	148.24000	381	87AST87	Cretaceous	JKs map unit	4.54	USGS [Pawlewicz]
VO-1907	Livengood	65.45500	148.70000	137	87AST45			3.14	USGS [Pawlewicz]
VO-1908	Livengood	65.45500	148.70000	137	87AST48			4.47	USGS [Pawlewicz]
VO-1909	Livengood	65.47000	148.31333	198	87AST84	Cretaceous	JKs map unit	4.69	USGS [Pawlewicz]
VO-1910	Livengood	65.47666	148.27333	213	87AST83	Cretaceous	JKs map unit	4.98	USGS [Pawlewicz]
VO-1911	Livengood	65.48333	148.42666	290	87AST76			4.42	USGS [Pawlewicz]
VO-1912	Livengood	65.48333	148.42666	290	87AST78			4.01	USGS [Pawlewicz]
VO-1913	Livengood	65.56666	149.07333	991	86AST95	Cretaceous-Tertiary	Cantwell Fm	4.23	USGS [Pawlewicz]
VO-1914	Livengood	65.56666	149.07333	991	86AST96	Cretaceous-Tertiary	Cantwell Fm	3.88	USGS [Pawlewicz]
VO-1915	Livengood	65.56666	149.07333	991	86AST97	Cretaceous-Tertiary	Cantwell Fm	3.55	USGS [Pawlewicz]
VO-1916	Lookout Ridge	69.22389	158.75972	305	78AAH1 [Carbon Creek]	Cretaceous	Torok Fm	0.61	PGS - Record # 501559500100000040
VO-1919	Lookout Ridge	69.22500	158.75667	305	78AAH2 [Carbon Creek]	Cretaceous	Corwin Fm	0.59	PGS - Record # 501559500100000030
VO-1918	Lookout Ridge	69.22722	158.75528	305	78AAH3 [Carbon Creek]	Cretaceous	Corwin Fm	0.57	PGS - Record # 501559500100000020
VO-1917	Lookout Ridge	69.24278	158.74194	305	78AAH11 [Carbon Creek]	Cretaceous	Corwin Fm	0.50	PGS - Record # 501559500100000010
VO-1920	Lookout Ridge	69.45750	158.72056		R7XNSP413	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-1921	Lookout Ridge	69.49000	158.71139		R7XNSP428	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-1922	Lookout Ridge	69.53361	158.68611		R7XNSP445	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-1923	Lookout Ridge	69.60778	158.62222		R7XNSP482	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-1924	Lookout Ridge	69.61889	158.61611		R7XNSP486	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-1925	Lookout Ridge	69.62556	158.61278		R7XNSP488	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-1926	Lookout Ridge	69.63694	158.60972		47XNSP494	Cretaceous	Nanushuk Gp	0.56	Rao and Smith, 1983
VO-1927	Lookout Ridge	69.70389	158.58722		R7XNSP520	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-1928	Lookout Ridge	69.72972	158.57778		R7XNSP531	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-1929	Lookout Ridge	69.86222	158.51944		R7XNSP582	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-1930	McCarthy	61.462	142.637		72H-8	Triassic	McCarthy	2.09	Shell Oil Company
VO-1931	McCarthy	61.462	142.637		72H-9	Triassic	McCarthy	2.11	Shell Oil Company
VO-1932	McCarthy	61.462	142.637		72H-10	L. Cretaceous	Moonshine	0.68	Shell Oil Company
VO-1933	McCarthy	61.533	143.753		74J-83	U. Triassic	Nizina	0.88	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1934	McGrath	62.047	155.048		76F-335A	Ordovician-Silurian		1.34	Shell Oil Company
VO-1935	McGrath	62.047	155.048		035-C2 / FSE987			3.46	British Petroleum
VO-1936	McGrath	62.05556	155.66667		83BT312	Cretaceous	Kuskokwim Gp	4.27	USGS [Pawlewicz]
VO-1937	McGrath	62.05972	155.71250		83BT333	Cretaceous	Kuskokwim Gp	3.87	USGS [Pawlewicz]
VO-1938	McGrath	62.068	155.243		76F-212	Cretaceous	Kuskokwim	2.55	Shell Oil Company
VO-1939	McGrath	62.070	155.150		75M-45-7	Devonian		2.23	Shell Oil Company
VO-1940	McGrath	62.070	155.150		75M45-7	Devonian		2.23	Shell Oil Company
VO-1941	McGrath	62.08194	155.65417		83BT313	Cretaceous	Kuskokwim Gp	2.85	USGS [Pawlewicz]
VO-1942	McGrath	62.083	155.272		76F-211	Cretaceous	Kuskokwim	2.13	Shell Oil Company
VO-1943	McGrath	62.083	155.272		76F-214	Cretaceous	Kuskokwim	2.66	Shell Oil Company
VO-1944	McGrath	62.088	155.148		76F-29	Permian-Jurassic	Gemuk	2.02	Shell Oil Company
VO-1945	McGrath	62.098	155.178		76F-21	Cretaceous	Kuskokwim	2.30	Shell Oil Company
VO-1946	McGrath	62.108	155.272		76F-216	Cretaceous	Kuskokwim	1.77	Shell Oil Company
VO-1947	McGrath	62.112	155.208		76F-19B	Cretaceous	Kuskokwim	2.29	Shell Oil Company
VO-1948	McGrath	62.112	155.210		76F-123	Ordovician-Silurian		1.07	Shell Oil Company
VO-1949	McGrath	62.123	155.268		76F-221	Cretaceous	Kuskokwim	1.79	Shell Oil Company
VO-1950	McGrath	62.127	155.029		74F-53A	Ordovician-Silurian		1.63	Shell Oil Company
VO-1951	McGrath	62.127	155.029		74F-53B	Ordovician-Silurian		1.72	Shell Oil Company
VO-1952	McGrath	62.127	155.085		76F-57	Devonian		1.02	Shell Oil Company
VO-1953	McGrath	62.127	155.085		69ACN-363	Silurian		2.36	Shell Oil Company
VO-1954	McGrath	62.127	155.182		76F-121	Ordovician-Silurian		0.96	Shell Oil Company
VO-1955	McGrath	62.127	155.182		76F-122	Ordovician-Silurian		1.32	Shell Oil Company
VO-1956	McGrath	62.128	155.025		74F-53A	Ordovician-Silurian		1.63	Shell Oil Company
VO-1957	McGrath	62.128	155.025		74F-53B	Ordovician-Silurian		1.72	Shell Oil Company
VO-1958	McGrath	62.128	155.028		74F-53B	Ordovician-Silurian		1.27	Shell Oil Company
VO-1959	McGrath	62.139	154.998		76F-334	Ordovician-Silurian		1.97	Shell Oil Company
VO-1960	McGrath	62.170	154.878		76F-154	Ordovician-Silurian		1.22	Shell Oil Company
VO-1961	McGrath	62.183	154.693		76F-142A	Ordovician-Silurian		3.02	Shell Oil Company
VO-1962	McGrath	62.183	154.693		76F-142B	Ordovician-Silurian		0.57	Shell Oil Company
VO-1963	McGrath	62.185	154.903		75J-33	Ordovician or Devonian		1.53	Shell Oil Company
VO-1964	McGrath	62.272	153.327		76F-338	Cretaceous		3.57	Shell Oil Company
VO-1965	McGrath	62.343	154.348		0030070			1.93	Chevron
VO-1966	McGrath	62.37222	153.15417		83BT196	Jurassic-Cretaceous	Kahiltna Terrane	4.69	USGS [Pawlewicz]
VO-1967	McGrath	62.37778	153.15556		83BT197	Jurassic-Cretaceous	Kahiltna Terrane	4.63	USGS [Pawlewicz]
VO-1968	McGrath	62.385	154.222		0030073	Tertiary	Intrusive	0.56	Chevron
VO-1969	McGrath	62.400	154.133		0030074			0.49	Chevron
VO-1970	McGrath	62.403	154.058		74F-35	Triassic		1.70	Shell Oil Company
VO-1971	McGrath	62.415	155.555		74F-61	Cretaceous		1.22	Shell Oil Company
VO-1972	McGrath	62.418	154.162		74F-29	Tertiary		0.49	Shell Oil Company
VO-1973	McGrath	62.418	154.162		74F-30	Tertiary		0.53	Shell Oil Company
VO-1974	McGrath	62.418	154.162		74F-36	Tertiary		0.57	Shell Oil Company
VO-1975	McGrath	62.428	154.133		74F-38	Tertiary		1.65	Shell Oil Company
VO-1976	McGrath	62.428	154.165		74F-39	Tertiary		1.63	Shell Oil Company
VO-1977	McGrath	62.442	154.133		74F-37	Tertiary		1.43	Shell Oil Company
VO-1978	McGrath	62.480	153.880		74F-41	Devonian		0.96	Shell Oil Company
VO-1979	McGrath	62.513	153.637		74F-26	Paleozoic		1.91	Shell Oil Company
VO-1980	McGrath	62.513	153.637		76F-249	Pennsylvanian		0.81	Shell Oil Company
VO-1981	McGrath	62.513	153.665		76F-250	Pennsylvanian		0.98	Shell Oil Company
VO-1982	McGrath	62.52778	153.64444		85BT2	Pennsylvanian	Mystic Sequence	1.10	USGS [Pawlewicz]
VO-1983	McGrath	62.65417	153.14167		83BT126	Jurassic-Cretaceous	Kahiltna Terrane	4.44	USGS [Pawlewicz]
VO-1984	Medfra	63.148	154.040		74F-7	Paleozoic		2.81	Shell Oil Company
VO-1985	Medfra	63.263	155.982		76F-340A	U. Cretaceous		1.48	Shell Oil Company
VO-1986	Medfra	63.278	155.822		74F-71	Cretaceous		0.48	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-1987	Medfra	63.365	155.950		76F-143A	U. Cretaceous		1.08	Shell Oil Company
VO-1988	Medfra	63.395	154.630		76F-273	Cretaceous		1.79	Shell Oil Company
VO-1989	Medfra	63.407	154.565		76F-189	Cretaceous		1.54	Shell Oil Company
VO-1990	Medfra	63.440	154.275		76F-347	Paleozoic		1.34	Shell Oil Company
VO-1991	Medfra	63.480	154.405		76F-184	L. Cretaceous		2.49	Shell Oil Company
VO-1992	Medfra	63.527	154.915		74F-24A	Paleozoic		1.04	Shell Oil Company
VO-1993	Medfra	63.580	155.305		76F-177	Cretaceous		1.67	Shell Oil Company
VO-1994	Medfra	63.608	154.175		220-I / FSG531			3.60	British Petroleum
VO-1995	Medfra	63.610	154.147		76F-317	Triassic		1.92	Shell Oil Company
VO-1996	Medfra	63.610	154.147		76F-319	Triassic		3.33	Shell Oil Company
VO-1997	Medfra	63.610	154.175		76F-5A	Triassic		3.22	Shell Oil Company
VO-1998	Medfra	63.610	154.175		76F-6	Triassic		2.31	Shell Oil Company
VO-1999	Medfra	63.612	155.467		76F-178	Cretaceous		1.98	Shell Oil Company
VO-2000	Medfra	63.625	154.175		76F-3A	U. Paleozoic-Permian?		2.22	Shell Oil Company
VO-2001	Medfra	63.652	154.533		76F-181D	L. Cretaceous		1.19	Shell Oil Company
VO-2002	Medfra	63.653	154.597		74F-23			3.28	Shell Oil Company
VO-2003	Medfra	63.653	154.597		74F-23	Cretaceous		3.28	Shell Oil Company
VO-2004	Medfra	63.698	154.725		76F-275	Cretaceous		1.48	Shell Oil Company
VO-2005	Medfra	63.698	154.983		76F-323	Cretaceous		1.84	Shell Oil Company
VO-2006	Medfra	63.870	153.730		223-C / FSG536			1.89	British Petroleum
VO-2007	Melozitna	65.10833	153.20833	52	88AST-1A	Tertiary		0.26	USGS [Pawlewicz]
VO-2008	Middleton Island	59.18388	145.32111		S10-79-EG 4A			0.47	PGS - Record # 55160950120000010
VO-2009	Middleton Island	59.81944	144.52916	0	80AMU 77	Miocene	Yakataga Fm	0.47	PGS - Record # 50169950030000020
VO-2010	Middleton Island	59.865	144.528		0019205			0.40	Chevron
VO-2011	Middleton Island	59.865	144.528		0019205			0.40	Chevron
VO-2012	Middleton Island	59.883	144.447		0019238			0.50	Chevron
VO-2013	Middleton Island	59.883	144.447		0019242	Tertiary	Katalla	0.50	Chevron
VO-2014	Middleton Island	59.89083	144.47000		72APR 117B			0.43	PGS - Record # 55160950100000010
VO-2015	Middleton Island	59.89083	144.47000		72APR 117A3			0.37	PGS - Record # 55160950100000020
VO-2016	Middleton Island	59.89083	144.47000		72APR 117A2			0.41	PGS - Record # 55160950100000030
VO-2017	Middleton Island	59.892	144.467		62J 198F	Oligocene	U. Karalla	0.61	Shell Oil Company
VO-2018	Middleton Island	59.895	144.420		75K-1+2180	Miocene	Poul Creek	0.42	Shell Oil Company
VO-2019	Middleton Island	59.895	144.420		75K-1+1920	Miocene	Poul Creek	0.50	Shell Oil Company
VO-2020	Middleton Island	59.895	144.420		75K-1+1760	Miocene	Poul Creek	0.58	Shell Oil Company
VO-2021	Middleton Island	59.895	144.420		75K-1+1710	Miocene	Poul Creek	0.52	Shell Oil Company
VO-2022	Middleton Island	59.895	144.420		75K-1+1670	Miocene	Poul Creek	0.42	Shell Oil Company
VO-2023	Middleton Island	59.895	144.420		75K-1+1630			0.41	Shell Oil Company
VO-2024	Middleton Island	59.895	144.420		75K-1+1260	Miocene	Poul Creek	0.44	Shell Oil Company
VO-2025	Middleton Island	59.895	144.420		75K-1+1010	Miocene	Poul Creek	0.44	Shell Oil Company
VO-2026	Middleton Island	59.895	144.420		75K-1+480	Miocene	Poul Creek	0.45	Shell Oil Company
VO-2027	Middleton Island	59.895	144.420		75K-1+280	Miocene	Poul Creek	0.46	Shell Oil Company
VO-2028	Middleton Island	59.895	144.420		75K-1+20	Miocene	Poul Creek	0.47	Shell Oil Company
VO-2029	Middleton Island	59.895	144.420		72C-4+222	Miocene	Poul Creek	0.52	Shell Oil Company
VO-2030	Middleton Island	59.895	144.420		72C-4+140	Miocene	Poul Creek	0.46	Shell Oil Company
VO-2031	Middleton Island	59.908	144.412		72R-27+50	Oligocene-Miocene	Poul Creek	0.49	Shell Oil Company
VO-2032	Middleton Island	59.908	144.412		72R-27-400	Oligocene-Miocene	Poul Creek	0.42	Shell Oil Company
VO-2033	Middleton Island	59.908	144.412		72R-27-600	Oligocene-Miocene	Poul Creek	0.37	Shell Oil Company
VO-2034	Middleton Island	59.908	144.412		72R-27-1000	Oligocene-Miocene	Poul Creek	0.38	Shell Oil Company
VO-2035	Middleton Island	59.93000	144.44666		72APR 119A			0.38	PGS - Record # 55160950110000010
VO-2036	Middleton Island	59.937	144.413		71F-25B	Miocene-Pliocene	Yakataga	0.49	Shell Oil Company
VO-2037	Middleton Island	59.937	144.432		72C-10+1855	Pliocene	Yakataga	0.54	Shell Oil Company
VO-2038	Middleton Island	59.937	144.432		72C-10+1800	Pliocene	Yakataga	0.45	Shell Oil Company
VO-2039	Middleton Island	59.937	144.432		72C-10+1700	Oligocene-Miocene	Poul Creek	0.48	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2040	Middleton Island	59.937	144.432		72C-10+1380	Oligocene-Miocene	Poul Creek	0.49	Shell Oil Company
VO-2041	Middleton Island	59.937	144.432		72C-10+940	Oligocene-Miocene	Poul Creek	0.43	Shell Oil Company
VO-2042	Middleton Island	59.937	144.432		72C-10+770	Oligocene-Miocene	Poul Creek	0.50	Shell Oil Company
VO-2043	Middleton Island	59.937	144.432		72C-10+300	Oligocene-Miocene	Poul Creek	0.43	Shell Oil Company
VO-2044	Middleton Island	59.987	144.248		73B60+17	Oligocene-Miocene	Poul Creek	0.59	Shell Oil Company
VO-2045	Middleton Island	59.987	144.248		73B60+295	Oligocene-Miocene	Poul Creek	0.65	Shell Oil Company
VO-2046	Middleton Island	59.987	144.248		73B60+465	Oligocene-Miocene	Poul Creek	0.64	Shell Oil Company
VO-2047	Middleton Island	59.987	144.248		73B60+736	Oligocene-Miocene	Poul Creek	0.56	Shell Oil Company
VO-2048	Middleton Island	59.987	144.248		72D-120D	Oligocene-Miocene	Poul Creek	0.66	Shell Oil Company
VO-2049	Middleton Island	59.987	144.248		72D-120F	Oligocene-Miocene	Poul Creek	0.66	Shell Oil Company
VO-2050	Middleton Island	59.98805	144.37333		81APR 53			0.40	PGS - Record # 501699500800000040
VO-2051	Middleton Island	59.98805	144.37333		81APR 52			0.39	PGS - Record # 501699500800000050
VO-2052	Middleton Island	59.98805	144.37333		81APR 51F			0.31	PGS - Record # 501699500800000060
VO-2053	Middleton Island	59.99222	144.19333		81APR 57			0.42	PGS - Record # 501699500900000010
VO-2054	Middleton Island	59.99222	144.37666		81APR 56			0.56	PGS - Record # 501699500800000010
VO-2055	Middleton Island	59.99222	144.37666		81APR 55			0.53	PGS - Record # 501699500800000020
VO-2056	Middleton Island	59.99222	144.37666		81APR 54			0.49	PGS - Record # 501699500800000030
VO-2057	Middleton Island	59.99472	144.20833		80AMU 83			0.44	PGS - Record # 501699500400000010
VO-2058	Middleton Island	59.99500	144.20611	0	80AMU 85		Katalla Fm	0.71	PGS - Record # 501699500500000010
VO-2059	Middleton Island	59.99972	144.33166	0	80AMU 86		Katalla Fm	0.67	PGS - Record # 501699500600000010
VO-2060	Misheguk Mountain	68.07333	161.67833	488	78TR 161D	Devonian	Baird Gp	1.10	PGS - Record # 501719502000000010
VO-2061	Misheguk Mountain	68.13833	160.63000	853	78TR 145C	Devonian-Mississippian	Noatak Ss	2.26	PGS - Record # 501719501900000010
VO-2062	Misheguk Mountain	68.16833	161.44166	183	78EK 139BL	Jurassic	Etiluluk Fm	1.15	PGS - Record # 501719501400000010
VO-2063	Misheguk Mountain	68.31833	159.35000	610	78EK 101C2	Devonian		1.41	PGS - Record # 501719501200000010
VO-2064	Misheguk Mountain	68.32583	161.52333	610	78EK 117A2	U. Devonian	Eli Ls	1.12	PGS - Record # 501719501300000010
VO-3887	Misheguk Mountain	68.38600	162.75500		MULL, GIL - 96FC 4A	Cretaceous	Kukpowruk River shale	1.82	USGS [Pawlewicz]
VO-3888	Misheguk Mountain	68.38600	162.75500		MULL, GIL - 96FC 4C	Mississippian	Kayak-U Kukpowruk River	0.77	USGS [Pawlewicz]
VO-3889	Misheguk Mountain	68.39700	162.68900		MULL, GIL - 96FC 5B		Unknown-U Kukowruk River	1.72	USGS [Pawlewicz]
VO-3890	Misheguk Mountain	68.39700	162.70400		MULL, GIL - 96FC 8A		Unknown-U Kukpowruk river	1.90	USGS [Pawlewicz]
VO-2065	Misheguk Mountain	68.40000	161.76833	427	78TR 140D	Mississippian-Pennsylvanian	Lisburne Gp	0.77	PGS - Record # 501719501800000010
VO-3892	Misheguk Mountain	68.45400	162.62200		MULL, GIL - 96FC 17C	Triassic-Jurassic	Otuk-Chevron Hill	1.39	USGS [Pawlewicz]
VO-2066	Misheguk Mountain	68.45416	159.64000	488	78TR 46	Cretaceous	Okpikruak Fm	2.16	PGS - Record # 501719501600000010
VO-3891	Misheguk Mountain	68.45700	162.62000		MULL, GIL - 96FC 17A		Chevron Hill mudstone	1.57	USGS [Pawlewicz]
VO-3794	Misheguk Mountain	68.46400	162.93200		MULL, GIL - 96 Mu 21	Cretaceous	Torok-Kukpowruk	0.95	USGS [Pawlewicz]
VO-2067	Misheguk Mountain	68.49666	159.83833	610	78TR 39C	Cretaceous		2.12	PGS - Record # 501719501500000010
VO-2068	Misheguk Mountain	68.49666	161.42999	732	78TR 175B			1.32	PGS - Record # 501719502100000010
VO-2069	Misheguk Mountain	68.52999	160.79000	213	78TR 195T	Mississippian	Kayak Sh	1.50	PGS - Record # 501719502200000010
VO-2070	Misheguk Mountain	68.53833	159.95500	488	78TR 67A	Mississippian	Kogruk Fm	2.40	PGS - Record # 501719501700000010
VO-3840	Misheguk Mountain	68.55500	162.80700		MULL, GIL - 96 Ha 75			0.94	USGS [Pawlewicz]
VO-3808	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 96 Mu 46			0.98	USGS [Pawlewicz]
VO-3809	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 96 Mu 46-2			1.79	USGS [Pawlewicz]
VO-3810	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 96 Mu 46-3		Unknown-Tingmerkpuq river	1.21	USGS [Pawlewicz]
VO-3861	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-1		Tingmerkpuq River	1.60	USGS [Pawlewicz]
VO-3862	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-2	Cretaceous	Torok-Unit 10	1.13	USGS [Pawlewicz]
VO-3863	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-3	Cretaceous	Torok-Unit 12-5m	1.12	USGS [Pawlewicz]
VO-3864	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-4			1.13	USGS [Pawlewicz]
VO-3865	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-5	Cretaceous	Torok-Unit 16-6m	1.20	USGS [Pawlewicz]
VO-3866	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-6	Cretaceous	Torok-Unit 16-16m	1.25	USGS [Pawlewicz]
VO-3867	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-7	Cretaceous	Torok	1.23	USGS [Pawlewicz]
VO-3868	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-8	Cretaceous	Torok-Unit 21-7m	1.21	USGS [Pawlewicz]
VO-3869	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-9	Cretaceous	Torok-Unit 21-36m	1.20	USGS [Pawlewicz]
VO-3870	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-10	Cretaceous	Torok-Unit 22-3m	1.24	USGS [Pawlewicz]
VO-3871	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-11	Cretaceous	Torok-Unit 22-9m	1.19	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

		North	West	Elev				Mean Ro	
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	(%)	Source of Data
VO-3872	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-12	Cretaceous	Torok-Unit 22-17m	1.18	USGS [Pawlewicz]
VO-3873	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-13	Cretaceous	Torok-Unit 24-7.5m	1.21	USGS [Pawlewicz]
VO-3874	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-14	Cretaceous	Torok-Unit 24-20m	1.10	USGS [Pawlewicz]
VO-3875	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-15	Cretaceous	Torok-Unit 26-5m	1.23	USGS [Pawlewicz]
VO-3876	Misheguk Mountain	68.56200	162.37600		MULL, GIL - 94 Mu43-16	Cretaceous	Torok-Unit 26-15.5 m	1.20	USGS [Pawlewicz]
VO-3930	Misheguk Mountain	68.58375	162.54426		BIRD, KEN - 98TM-410A		Horseshoe syncline N.	0.95	USGS [Pawlewicz]
VO-3838	Misheguk Mountain	68.62000	161.79900		MULL, GIL - 96 Ha 66	Cretaceous	Torok-Spike Creek	1.16	USGS [Pawlewicz]
VO-3839	Misheguk Mountain	68.63900	161.77200		MULL, GIL - 96 Ha 68		Spike Creek	1.51	USGS [Pawlewicz]
VO-3853	Misheguk Mountain	68.64100	161.44000		MULL, GIL - 96 TM 54-B			1.20	USGS [Pawlewicz]
VO-3854	Misheguk Mountain	68.65200	161.49200		MULL, GIL - 96 TM 55-B	Cretaceous	Torok-Iligluruk Ck	0.81	USGS [Pawlewicz]
VO-3846	Misheguk Mountain	68.65500	161.77600		MULL, GIL - 96 TM 33-B	Cretaceous	Torok-Spike Creek claystone	1.59	USGS [Pawlewicz]
VO-3855	Misheguk Mountain	68.66000	161.51200		MULL, GIL - 96 TM 56-A	Cretaceous	Torok-Iligluruk Ck	1.47	USGS [Pawlewicz]
VO-3856	Misheguk Mountain	68.66500	161.52400		MULL, GIL - 96 TM 57-A	Cretaceous	Torok-Iligluruk Ck	1.42	USGS [Pawlewicz]
VO-3857	Misheguk Mountain	68.66700	161.53100		MULL, GIL - 96 TM 58-A	Cretaceous	Torok-Iligluruk Ck	1.41	USGS [Pawlewicz]
VO-3824	Misheguk Mountain	68.69400	161.75900		MULL, GIL - 96 Ha 25			1.60	USGS [Pawlewicz]
VO-3844	Misheguk Mountain	68.69500	161.73200		MULL, GIL - 96 TM 31-B	Cretaceous	Torok-Iligluruk Ck	1.54	USGS [Pawlewicz]
VO-3843	Misheguk Mountain	68.69700	161.73600		MULL, GIL - 96 TM 30-C	Cretaceous	Torok-Iligluruk Ck	1.45	USGS [Pawlewicz]
VO-3842	Misheguk Mountain	68.69900	161.72700		MULL, GIL - 96 TM 29-B			1.45	USGS [Pawlewicz]
VO-3923	Misheguk Mountain	68.70035	161.70367		BIRD, KEN - 98TM-390A		W end Illingnorak Creek	1.40	USGS [Pawlewicz]
VO-3825	Misheguk Mountain	68.70100	161.72300		MULL, GIL - 96 Ha 26			1.61	USGS [Pawlewicz]
VO-3826	Misheguk Mountain	68.70600	161.72700		MULL, GIL - 96 Ha 27		Unknown-Spike/Iligluruk	1.50	USGS [Pawlewicz]
VO-3845	Misheguk Mountain	68.70600	161.73000		MULL, GIL - 96 TM 32-B			1.52	USGS [Pawlewicz]
VO-3938	Misheguk Mountain	68.70747	161.73559		BIRD, KEN - 98WKW-24B		Lingnorak Creek	1.67	USGS [Pawlewicz]
VO-3827	Misheguk Mountain	68.71000	161.72000		MULL, GIL - 96 Ha 29		Unknown-Spike/Iligluruk Ck	1.24	USGS [Pawlewicz]
VO-3834	Misheguk Mountain	68.72300	162.06800		MULL, GIL - 96 Ha 52		Kokolik River shale	1.39	USGS [Pawlewicz]
VO-3805	Misheguk Mountain	68.72800	161.70600		MULL, GIL - 96 Mu 40	Cretaceous	Torok-lower Iligluruk Ck	1.14	USGS [Pawlewicz]
VO-3802	Misheguk Mountain	68.73500	161.82200		MULL, GIL - 96 Mu 38	Cretaceous	Torok-lower Iligluruk Ck	1.37	USGS [Pawlewicz]
VO-3803	Misheguk Mountain	68.73500	161.82200		MULL, GIL - 96 Mu 38-1		Lower Iligluruk	1.37	USGS [Pawlewicz]
VO-3925	Misheguk Mountain	68.73510	161.82106		BIRD, KEN - 98TM-392B		Illingnorak Creek	1.50	USGS [Pawlewicz]
VO-3804	Misheguk Mountain	68.73900	161.75100		MULL, GIL - 96 Mu 39	Cretaceous	Torok-lower Iligluruk Ck	1.37	USGS [Pawlewicz]
VO-3924	Misheguk Mountain	68.73935	161.75480		BIRD, KEN - 98TM-391A		Illingnorak Creek	1.56	USGS [Pawlewicz]
VO-3793	Misheguk Mountain	68.74000	162.89900		MULL, GIL - 96 Mu 20-1			1.37	USGS [Pawlewicz]
VO-3792	Misheguk Mountain	68.74100	162.89600		MULL, GIL - 96 Mu 20			1.88	USGS [Pawlewicz]
VO-3858	Misheguk Mountain	68.77000	162.63200		MULL, GIL - 96 TM 66-C		Unknown-Eagle Creek	1.27	USGS [Pawlewicz]
VO-3932	Misheguk Mountain	68.78941	161.79032		BIRD, KEN - 98CP-A1		N. fork Ilingnora	1.46	USGS [Pawlewicz]
VO-3933	Misheguk Mountain	68.78941	161.79032		BIRD, KEN - 98CP-A2		S flank Tupikchak Creek	1.28	USGS [Pawlewicz]
VO-3939	Misheguk Mountain	68.81710	161.61059		BIRD, KEN - 98WKW-26		SE flank Tupikch	1.36	USGS [Pawlewicz]
VO-3901	Misheguk Mountain	68.82143	162.35080		HOUSEKNECHT, DAVID - 98DH-11		Poko 5	0.73	USGS [Pawlewicz]
VO-3934	Misheguk Mountain	68.82983	161.62933		BIRD, KEN - 98CP-A3		SE flank Tupikchak	1.24	USGS [Pawlewicz]
VO-3790	Misheguk Mountain	68.83700	161.15600		MULL, GIL - 96 Mu 16			0.93	USGS [Pawlewicz]
VO-3789	Misheguk Mountain	68.83700	161.27100		MULL, GIL - 96 Mu 14	Cretaceous	Torok - Driftwood anticline	1.10	USGS [Pawlewicz]
VO-3823	Misheguk Mountain	68.84000	161.25500		MULL, GIL - 96 Ha 22	Cretaceous	Torok-S side Driftwood anticline	1.03	USGS [Pawlewicz]
VO-3819	Misheguk Mountain	68.85300	162.95300		MULL, GIL - 96 Ha 9		ORK w. of Surprise Ck	0.89	USGS [Pawlewicz]
VO-3921	Misheguk Mountain	68.85750	161.80549		BIRD, KEN - 98TM-366A		Tupikchak Mtn. sync	0.86	USGS [Pawlewicz]
VO-2078	Misheguk Mountain	68.85833	161.95972	488	77AJF33 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.90	PGS - Record # 501719500100000140
VO-3935	Misheguk Mountain	68.86250	161.69730		BIRD, KEN - 98CP-A5		Tupikchak Creek	0.94	USGS [Pawlewicz]
VO-2077	Misheguk Mountain	68.86389	161.92778	488	77AJF38 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.82	PGS - Record # 501719500100000120
VO-2076	Misheguk Mountain	68.86528	161.92083	488	77AJF41 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.80	PGS - Record # 501719500100000100
VO-2075	Misheguk Mountain	68.86667	161.90556	488	77AJF42 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.74	PGS - Record # 501719500100000090
VO-2082	Misheguk Mountain	68.86667	162.04167	488	77AJF22 [Tupikchak Mtn]	Cretaceous	Corwin Fm	1.02	PGS - Record # 501719500100000180
VO-2081	Misheguk Mountain	68.86722	162.03333	488	77AJF26 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.87	PGS - Record # 501719500100000170
VO-2074	Misheguk Mountain	68.86806	161.90417	488	77AJF43 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.83	PGS - Record # 501719500100000080
VO-2080	Misheguk Mountain	68.86861	162.02500	488	77AJF28 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.80	PGS - Record # 501719500100000160

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3784	Misheguk Mountain	68.87200	162.42000		MULL, GIL - 96 Mu 4		W of Poko Mtn.	1.04	USGS [Pawlewicz]
VO-2073	Misheguk Mountain	68.87917	161.87222	488	77AJF48 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.80	PGS - Record # 50171950010000050
VO-3940	Misheguk Mountain	68.88070	161.39019		BIRD, KEN - 98WKW-28B		N. flank Plunge Creek	1.05	USGS [Pawlewicz]
VO-2071	Misheguk Mountain	68.88194	161.86667	488	77AJF52A [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.68	PGS - Record # 50171950010000010
VO-2072	Misheguk Mountain	68.88222	161.86667	488	77AJF51 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.77	PGS - Record # 50171950010000020
VO-3785	Misheguk Mountain	68.88300	162.51200		MULL, GIL - 96 Mu 5			0.99	USGS [Pawlewicz]
VO-3786	Misheguk Mountain	68.88300	162.51200		MULL, GIL - 96 Mu 6	Cretaceous	Torok-NW of Poko Mtn	0.91	USGS [Pawlewicz]
VO-2079	Misheguk Mountain	68.88333	162.02500	488	77AJF32 [Tupikchak Mtn]	Cretaceous	Corwin Fm	0.79	PGS - Record # 501719500100000150
VO-3926	Misheguk Mountain	68.89768	161.73268		BIRD, KEN - 98TM-396A		N. flank Tupikchak	0.85	USGS [Pawlewicz]
VO-3820	Misheguk Mountain	68.90400	162.59000		MULL, GIL - 96 Ha 19			0.79	USGS [Pawlewicz]
VO-3898	Misheguk Mountain	68.90678	162.83495		BURRUSS, ROBERT - 98DH4		Surprise Creek	0.68	USGS [Pawlewicz]
VO-3877	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 8			0.58	USGS [Pawlewicz]
VO-3878	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 9	Triassic-Jurassic	Otuk	0.88	USGS [Pawlewicz]
VO-3879	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 10	Triassic-Jurassic	Otuk	0.61	USGS [Pawlewicz]
VO-3880	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 15-B	Jurassic	Kingak	0.88	USGS [Pawlewicz]
VO-3881	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 16-B	Jurassic	Kingak	1.02	USGS [Pawlewicz]
VO-3882	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 17-B	Jurassic	Kingak	0.87	USGS [Pawlewicz]
VO-3883	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 19-B			1.20	USGS [Pawlewicz]
VO-3884	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 20.5 B	Jurassic	Kingak	0.95	USGS [Pawlewicz]
VO-3885	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 21.5 B			0.79	USGS [Pawlewicz]
VO-3886	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 22-B			1.43	USGS [Pawlewicz]
VO-3894	Misheguk Mountain	68.90700	162.83400		MULL, GIL - 96 MAW 20.-E	Jurassic	E Kingak-Surprise Creek	1.32	USGS [Pawlewicz]
VO-3931	Misheguk Mountain	68.90768	162.56272		BIRD, KEN - 98TM-413A		East of Surprise creek	0.71	USGS [Pawlewicz]
VO-2083	Misheguk Mountain	68.92250	159.14555	442	80AMK 182B	Cretaceous	Fortress Mountain Fm	0.99	PGS - Record # 50171950110000010
VO-2084	Misheguk Mountain	68.92250	159.14555	442	80AMK 182A	Cretaceous	Fortress Mountain Fm	0.48	PGS - Record # 50171950110000020
VO-3936	Misheguk Mountain	68.92475	161.76736		BIRD, KEN - 98CP-A6		N. flank Tupikchak	0.74	USGS [Pawlewicz]
VO-3941	Misheguk Mountain	68.92475	161.76736		BIRD, KEN - 98WKW-29A		N. flank Tupikchak	0.67	USGS [Pawlewicz]
VO-2085	Misheguk Mountain	68.92778	160.79167	853	77AAH 25 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.53	PGS - Record # 50171950020000010
VO-2086	Misheguk Mountain	68.92889	160.79444	853	77AAH 24 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.52	PGS - Record # 50171950020000020
VO-2087	Misheguk Mountain	68.93333	160.80000	853	77AAH 20 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.51	PGS - Record # 50171950020000040
VO-2088	Misheguk Mountain	68.94722	160.80694	853	77AAH 10 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.63	PGS - Record # 50171950020000080
VO-2089	Misheguk Mountain	68.95000	160.81111	853	77AAH 5 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.59	PGS - Record # 501719500200000130
VO-2090	Misheguk Mountain	68.95333	160.81250	853	77AAH 2 [Meat Mtn]	Cretaceous	Kukpowruk Fm	0.66	PGS - Record # 501719500200000140
VO-3791	Misheguk Mountain	68.96100	162.52900		MULL, GIL - 96 Mu 18	Cretaceous	Nanushuk-Tupikchak syn carb sha	0.81	USGS [Pawlewicz]
VO-2091	Misheguk Mountain	68.98194	160.85694	366	77AAH 1 [Meat Mtn]	Cretaceous	Torok Fm	0.60	PGS - Record # 501719500200000150
VO-2092	Mount Hayes	63.37333	148.38000	960	85AST260	Miocene	Healy Creek Fm	0.33	USGS [Pawlewicz]
VO-2093	Mount Hayes	63.60278	145.73833	1387	URC6-1	Tertiary	Unnamed	0.43	Belowich, 1986
VO-2094	Mount Hayes	63.60389	145.74722	1311	URC7-1	Tertiary	Unnamed	0.42	Belowich, 1986
VO-2095	Mount Hayes	63.61306	145.73056	1189	RGD1-2	Tertiary	Unnamed	0.44	Belowich, 1986
VO-2096	Mount Hayes	63.61306	145.73056	1189	RGD1-4	Tertiary	Unnamed	0.37	Belowich, 1986
VO-2097	Mount Hayes	63.61806	145.76111	1067	URC2-1	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2098	Mount Hayes	63.61806	145.76111	1067	URC2-2	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2099	Mount Hayes	63.61833	145.71028	1173	UC1-3	Tertiary	Unnamed	0.42	Belowich, 1986
VO-2100	Mount Hayes	63.62111	145.74361	1219	URC5-1	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2101	Mount Hayes	63.62111	145.74361	1219	URC5-2	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2102	Mount Hayes	63.62222	145.70833	1067	UC2-1	Tertiary	Unnamed	0.37	Belowich, 1986
VO-2103	Mount Hayes	63.62306	145.75333	1189	URC4-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2104	Mount Hayes	63.62306	145.75333	1189	URC4-2	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2105	Mount Hayes	63.62500	145.76583	1250	URC8-1	Tertiary	Unnamed	0.37	Belowich, 1986
VO-2106	Mount Hayes	63.62528	145.71417	1097	UC8-1	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2107	Mount Hayes	63.62528	145.71417	1097	UC8-2	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2108	Mount Hayes	63.62528	145.76028	1143	URC3-1	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2109	Mount Hayes	63.62528	145.76028	1143	URC3-2	Tertiary	Unnamed	0.36	Belowich, 1986

Vitrinite Reflectance Data from Alaskan Outcrops									
		North	West	Elev				Mean Ro	
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	(%)	Source of Data
VO-2110	Mount Hayes	63.62528	145.76028	1143	URC3-3	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2111	Mount Hayes	63.62528	145.76028	1143	URC3-4	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2112	Mount Hayes	63.62528	145.76028	1143	URC3-6	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2113	Mount Hayes	63.62583	145.77250	1143	URC1-1	Tertiary	Unnamed	0.42	Belowich, 1986
VO-2114	Mount Hayes	63.62583	145.77250	1143	URC1-2	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2115	Mount Hayes	63.62583	145.77250	1143	URC1-3	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2116	Mount Hayes	63.62583	145.77250	1143	URC1-4	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2117	Mount Hayes	63.62583	145.77250	1143	URC1-5	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2118	Mount Hayes	63.62694	145.78083	1067	RC3-1	Tertiary	Unnamed	0.37	Belowich, 1986
VO-2119	Mount Hayes	63.62694	145.78083	1067	RC3-2	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2120	Mount Hayes	63.62806	145.70750	1097	UC7-2	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2121	Mount Hayes	63.62806	145.70750	1097	UC7-5	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2122	Mount Hayes	63.62833	145.68139	1067	UC3-1	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2123	Mount Hayes	63.63000	145.68139	1036	UC4-2	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2124	Mount Hayes	63.63028	145.72944	1219	UC9-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2125	Mount Hayes	63.63028	145.72944	1219	UC9-3	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2126	Mount Hayes	63.63028	145.72944	1219	UC9-5	Tertiary	Unnamed	0.32	Belowich, 1986
VO-2127	Mount Hayes	63.63111	145.78417	1067	RC2b-1	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2128	Mount Hayes	63.63111	145.78417	1067	RC2b-2	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2129	Mount Hayes	63.63167	145.71583	1113	UC8A-1	Tertiary	Unnamed	0.44	Belowich, 1986
VO-2130	Mount Hayes	63.63250	145.80333	914	RC1-1	Tertiary	Unnamed	0.44	Belowich, 1986
VO-2131	Mount Hayes	63.63250	145.80333	914	RC1-2	Tertiary	Unnamed	0.41	Belowich, 1986
VO-2132	Mount Hayes	63.63250	145.80333	914	RC1-3	Tertiary	Unnamed	0.43	Belowich, 1986
VO-2133	Mount Hayes	63.63278	145.68083	991	UC5-1	Tertiary	Unnamed	0.42	Belowich, 1986
VO-2134	Mount Hayes	63.63444	145.72806	1219	UC10-1	Tertiary	Unnamed	0.40	Belowich, 1986
VO-2135	Mount Hayes	63.63444	145.72806	1219	UC10-3	Tertiary	Unnamed	0.34	Belowich, 1986
VO-2136	Mount Hayes	63.63444	145.72806	1219	UC10-5	Tertiary	Unnamed	0.35	Belowich, 1986
VO-2137	Mount Hayes	63.63889	145.71528	1158	UC10A-1	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2138	Mount Hayes	63.64389	145.71083	1128	LGC1-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2139	Mount Hayes	63.64389	145.71083	1128	LGC1-2	Tertiary	Unnamed	0.31	Belowich, 1986
VO-2140	Mount Hayes	63.64472	145.71528	1128	LGC2-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2141	Mount Hayes	63.64472	145.71528	1128	LGC2-3	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2142	Mount Hayes	63.64472	145.71528	1128	LGC2-5	Tertiary	Unnamed	0.35	Belowich, 1986
VO-2143	Mount Hayes	63.64472	145.71528	1128	LGC2-7	Tertiary	Unnamed	0.32	Belowich, 1986
VO-2144	Mount Hayes	63.64694	145.71417	1067	LGC3-2	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2145	Mount Hayes	63.64694	145.71417	1067	LGC3-4	Tertiary	Unnamed	0.35	Belowich, 1986
VO-2146	Mount Hayes	63.65583	145.78278	960	JCM-1	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2147	Mount Hayes	63.65583	145.78278	960	JCM-2	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2148	Mount Hayes	63.65583	145.78278	960	JCM-3	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2149	Mount Hayes	63.65583	145.78278	960	JCM-4	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2150	Mount Hayes	63.65583	145.78278	960	JCM-5	Tertiary	Unnamed	0.37	Belowich, 1986
VO-2151	Mount Hayes	63.65583	145.78278	960	JCM-6	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2152	Mount Hayes	63.657	145.780		UA 106	Miocene	Healy Creek	0.30	Shell Oil Company
VO-2153	Mount Hayes	63.65861	145.71333	991	JC1-2	Tertiary	Unnamed	0.33	Belowich, 1986
VO-2154	Mount Hayes	63.65861	145.71333	991	JC1-4	Tertiary	Unnamed	0.36	Belowich, 1986
VO-2155	Mount Hayes	63.65861	145.71333	991	JC1-6	Tertiary	Unnamed	0.35	Belowich, 1986
VO-2156	Mount Hayes	63.66000	145.71722	991	JC2-1	Tertiary	Unnamed	0.34	Belowich, 1986
VO-2157	Mount Hayes	63.68417	145.74167	838	SC1-1	Tertiary	Unnamed	0.39	Belowich, 1986
VO-2158	Mount Hayes	63.68417	145.74750	838	SC2-2	Tertiary	Unnamed	0.34	Belowich, 1986
VO-2159	Mount Hayes	63.69444	145.74694	991	SC3-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2160	Mount Hayes	63.70083	145.73139	975	SC4-1	Tertiary	Unnamed	0.38	Belowich, 1986
VO-2161	Mount Katmai	58.472	154.163		0043380			0.75	Chevron
VO-2162	Mount McKinley	63.10138	151.57805	1173	86AST51	Cretaceous-Tertiary	Cantwell Fm	4.80	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2163	Mount McKinley	63.10138	151.57805	1173	86AST52	Cretaceous-Tertiary	Cantwell Fm	4.14	USGS [Pawlewicz]
VO-2164	Mount McKinley	63.10138	151.57805	1173	86AST53	Cretaceous-Tertiary	Cantwell Fm	4.43	USGS [Pawlewicz]
VO-2165	Mount McKinley	63.28777	150.89666	1113	86AST56	Cretaceous-Tertiary	Cantwell Fm	1.07	USGS [Pawlewicz]
VO-2166	Mount McKinley	63.28777	150.89666	1113	86AST57	Cretaceous-Tertiary	Cantwell Fm	1.24	USGS [Pawlewicz]
VO-2167	Mount McKinley	63.28777	150.89666	1113	86AST58	Cretaceous-Tertiary	Cantwell Fm	4.25	USGS [Pawlewicz]
VO-2168	Mount McKinley	63.28777	150.89666	1113	86AST59	Cretaceous-Tertiary	Cantwell Fm	1.37	USGS [Pawlewicz]
VO-2169	Mount McKinley	63.28777	150.89666	1113	86AST60	Cretaceous-Tertiary	Cantwell Fm	1.41	USGS [Pawlewicz]
VO-2170	Mount McKinley	63.30305	150.84638	975	86AST61	Cretaceous-Tertiary	Cantwell Fm	1.42	USGS [Pawlewicz]
VO-2171	Mount McKinley	63.30305	150.84638	975	86AST62	Cretaceous-Tertiary	Cantwell Fm	1.46	USGS [Pawlewicz]
VO-2172	Mount McKinley	63.30305	150.84638	975	86AST63	Cretaceous-Tertiary	Cantwell Fm	1.58	USGS [Pawlewicz]
VO-2173	Mount McKinley	63.30583	150.83000	1097	86AST65	Cretaceous-Tertiary	Cantwell Fm	1.42	USGS [Pawlewicz]
VO-2174	Mount McKinley	63.49138	150.32222	1463	85AST151	Cretaceous-Tertiary	Cantwell Fm	1.23	USGS [Pawlewicz]
VO-2175	Mount McKinley	63.49138	150.32222	1463	85AST150	Cretaceous-Tertiary	Cantwell Fm	0.91	USGS [Pawlewicz]
VO-2176	Mount McKinley	63.49138	150.32222	1463	85AST149	Cretaceous-Tertiary	Cantwell Fm	1.01	USGS [Pawlewicz]
VO-2177	Mount McKinley	63.50555	150.28805	1554	85AST153	Cretaceous-Tertiary	Cantwell Fm	1.51	USGS [Pawlewicz]
VO-2178	Mount McKinley	63.50555	150.28805	1554	85AST154	Cretaceous-Tertiary	Cantwell Fm	1.30	USGS [Pawlewicz]
VO-2179	Mount McKinley	63.50555	150.28805	1554	85AST155	Cretaceous-Tertiary	Cantwell Fm	1.12	USGS [Pawlewicz]
VO-2180	Mount McKinley	63.88333	152.18333	198	88AST-34B	Silurian-Devonian	DOS map unit	0.35	USGS [Pawlewicz]
VO-3736	Mount Michelson	69.32166	145.71660		95FC-08	Mississippian	Kayak Sh	3.32	USGS [Pawlewicz]
VO-3737	Mount Michelson	69.32166	145.71660		95FC-09	Mississippian	Kayak Sh	4.44	USGS [Pawlewicz]
VO-2181	Mount Michelson	69.33055	145.08333	1036	69ADT10	Mississippian	Kayak Sh	4.25	PGS - Record # 50179950460000010
VO-3775	Mount Michelson	69.34325	147.20399		96DH-78	Jurassic	Kingak Sh ?	1.92	USGS [Pawlewicz]
VO-3776	Mount Michelson	69.34325	147.20399		96DH-80	Jurassic	Kingak Sh	1.84	USGS [Pawlewicz]
VO-2182	Mount Michelson	69.37500	145.78611	488	75PS70	Mississippian	Kayak Sh	4.65	PGS - Record # 50179950070000010
VO-2183	Mount Michelson	69.37500	145.78611	488	75PS69	Mississippian	Kayak Sh	2.79	PGS - Record # 50179950070000020
VO-2184	Mount Michelson	69.37500	145.78611	488	75PS68	Mississippian	Kayak Sh	2.47	PGS - Record # 50179950070000030
VO-2185	Mount Michelson	69.37500	145.78611	488	75PS67	Mississippian	Kayak Sh	4.63	PGS - Record # 50179950070000040
VO-2186	Mount Michelson	69.37500	145.78611	488	75PS66	Mississippian	Kayak Sh	0.80	PGS - Record # 50179950070000050
VO-2187	Mount Michelson	69.37500	145.78611	488	75PS65	Mississippian	Kayak Sh	4.63	PGS - Record # 50179950070000060
VO-2188	Mount Michelson	69.37500	145.78611	488	75PS64	Mississippian	Kayak Sh	4.01	PGS - Record # 50179950070000070
VO-2189	Mount Michelson	69.39166	146.43305	625	80AMK10K	Cretaceous	Pebble Sh Unit	1.30	PGS - Record # 50179950580000030
VO-2190	Mount Michelson	69.39166	146.43416	640	80AMK10N	Cretaceous	Pebble Sh Unit	1.29	PGS - Record # 50179950580000010
VO-2191	Mount Michelson	69.39305	146.42500	671	82AMK80B	Jurassic	Kingak Sh	2.21	PGS - Record # 50179951020000010
VO-3730	Mount Michelson	69.39683	146.41800		95FC-01B	Jurassic	Kingak Sh	2.03	USGS [Pawlewicz]
VO-2192	Mount Michelson	69.40055	146.43111	588	80AMK10E	Jurassic	Kingak Sh	1.29	PGS - Record # 50179950580000050
VO-2193	Mount Michelson	69.40166	146.42888	573	80AMK10A	Jurassic	Kingak Sh	1.71	PGS - Record # 50179950580000070
VO-2194	Mount Michelson	69.45111	146.79888	396	80AMK21	Tertiary	Canning Fm	0.49	PGS - Record # 50179950670000010
VO-3731	Mount Michelson	69.4665	146.58066		95FC-02B	Cretaceous	Hue Sh	1.01	USGS [Pawlewicz]
VO-2195	Mount Michelson	69.47111	146.34861	366	80AMK12E	Jurassic	Kingak Sh	0.76	PGS - Record # 50179950650000010
VO-2196	Mount Michelson	69.47111	146.34861	366	80AMK12A	Jurassic	Kingak Sh	1.29	PGS - Record # 50179950650000030
VO-2197	Mount Michelson	69.49444	146.31305	290	80AMK18A	Cretaceous	Pebble Sh Unit	0.76	PGS - Record # 50179950660000030
VO-2198	Mount Michelson	69.49555	144.66194	549	80AMK45B	Jurassic	Kingak Sh	1.76	PGS - Record # 50179950760000010
VO-2199	Mount Michelson	69.49555	144.66194	549	80AMK45A	Jurassic	Kingak Sh	2.11	PGS - Record # 50179950760000020
VO-2200	Mount Michelson	69.49805	144.67277	549	80AMK44B	Tertiary	Canning Fm	2.01	PGS - Record # 50179950750000010
VO-2201	Mount Michelson	69.49805	144.67277	549	80AMK44A	Tertiary	Canning Fm	1.82	PGS - Record # 50179950750000020
VO-2202	Mount Michelson	69.51111	144.48250	704	80AMK73C	Cretaceous	Pebble Sh Unit	1.78	PGS - Record # 50179950800000010
VO-2203	Mount Michelson	69.51111	144.48250	704	80AMK73B	Cretaceous	Pebble Sh Unit	1.77	PGS - Record # 50179950800000020
VO-2204	Mount Michelson	69.51194	144.48861	686	80AMK74	Cretaceous	Pebble Sh Unit	1.77	PGS - Record # 50179950810000010
VO-2205	Mount Michelson	69.51305	144.48722	686	80AMK75	Cretaceous	Pebble Sh Unit	1.76	PGS - Record # 50179950820000010
VO-2206	Mount Michelson	69.52166	144.69222	625	80AMK82A	Cretaceous	Pebble Sh Unit	1.72	PGS - Record # 50179950830000040
VO-2207	Mount Michelson	69.52333	144.69583	610	80AMK82C	Cretaceous	Pebble Sh Unit	1.73	PGS - Record # 50179950830000020
VO-2208	Mount Michelson	69.52361	144.51666	579	80AMK47B	Tertiary	Canning Fm	1.76	PGS - Record # 50179950770000010
VO-2209	Mount Michelson	69.52361	144.51666	579	80AMK47A	Tertiary	Canning Fm	1.77	PGS - Record # 50179950770000020

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2210	Mount Michelson	69.52388	146.25972	274	82AMK31	M. Triassic	Shublik Fm	2.35	PGS - Record # 501799509400000010
VO-2211	Mount Michelson	69.52416	144.69750	579	80AMK82D	Cretaceous	Pebble Sh Unit	1.82	PGS - Record # 501799508300000010
VO-2212	Mount Michelson	69.52499	144.71666	549	82AMK77	Cretaceous	Pebble Sh Unit	2.90	PGS - Record # 501799510000000010
VO-3732	Mount Michelson	69.52966	146.30283		95FC-03C	Cretaceous	Pebble Sh	1.38	USGS [Pawlewicz]
VO-3733	Mount Michelson	69.52966	146.30283		95FC-03E	Cretaceous	Hue Sh	1.12	USGS [Pawlewicz]
VO-3750	Mount Michelson	69.53048	145.21250		DH95-24	Triassic?	Kavik Sh	2.90	USGS [Pawlewicz]
VO-3752	Mount Michelson	69.53215	145.19350		DH95-38	Jurassic-Cretaceous	Kingak Sh	3.04	USGS [Pawlewicz]
VO-3751	Mount Michelson	69.53367	145.20333		DH95-31	Triassic	Shublik Fm	2.94	USGS [Pawlewicz]
VO-2213	Mount Michelson	69.53500	145.20416	716	82AMK730	Jurassic	Kingak Sh	2.79	PGS - Record # 501799507400000040
VO-2214	Mount Michelson	69.53555	145.20138		80AMK42A	Permian-Triassic	Fire Creek Mbr	1.69	PGS - Record # 501799507300000010
VO-2215	Mount Michelson	69.53555	145.20138	716	80AMK42F	M. Triassic	Shublik Fm	1.98	PGS - Record # 501799507400000010
VO-2216	Mount Michelson	69.53555	145.20138	716	80AMK42C	M. Triassic	Shublik Fm	1.75	PGS - Record # 501799507400000030
VO-3729	Mount Michelson	69.53561	144.90542		83AMK-52T (Dodo Cr)	Jurassic	Kingak Sh	3.05	USGS [Pawlewicz]
VO-3728	Mount Michelson	69.53750	144.90958		83AMK-52R (Dodo Cr)	Jurassic	Kingak Sh	3.32	USGS [Pawlewicz]
VO-2217	Mount Michelson	69.53750	145.19305	792	75PS63	Jurassic	Kingak Sh	1.56	PGS - Record # 501799506200000010
VO-2218	Mount Michelson	69.53750	145.19305	792	75PS62	Jurassic	Kingak Sh	2.70	PGS - Record # 501799506200000020
VO-2219	Mount Michelson	69.53750	145.19305	792	75PS61	Jurassic	Kingak Sh	2.19	PGS - Record # 501799506200000030
VO-2220	Mount Michelson	69.53750	145.19305	792	75PS60	Jurassic	Kingak Sh	2.36	PGS - Record # 501799506200000040
VO-2221	Mount Michelson	69.53750	145.19305	792	75PS59	Jurassic	Kingak Sh	2.67	PGS - Record # 501799506200000050
VO-2222	Mount Michelson	69.53750	145.19305	792	75PS58	Jurassic	Kingak Sh	2.92	PGS - Record # 501799506200000060
VO-2223	Mount Michelson	69.53750	145.19305	792	75PS57	Jurassic	Kingak Sh	2.79	PGS - Record # 501799506200000070
VO-2224	Mount Michelson	69.53750	145.19305	792	75PS55	Jurassic	Kingak Sh	2.68	PGS - Record # 501799506200000090
VO-2225	Mount Michelson	69.53750	145.19305	792	75PS54	Jurassic	Kingak Sh	2.30	PGS - Record # 501799506200000100
VO-2226	Mount Michelson	69.53750	145.19305	792	75PS53	Jurassic	Kingak Sh	3.01	PGS - Record # 501799506200000110
VO-2227	Mount Michelson	69.53750	145.19305	732	82AMK73H	M. Triassic	Shublik Fm	2.63	PGS - Record # 501799507400000110
VO-3727	Mount Michelson	69.54013	144.91583		83AMK-52P (Dodo Cr)	Jurassic	Kingak Sh	3.06	USGS [Pawlewicz]
VO-3726	Mount Michelson	69.54013	144.92458		83AMK-52O (Dodo Cr)	Jurassic	Kingak Sh	2.99	USGS [Pawlewicz]
VO-3725	Mount Michelson	69.54305	144.92958		83AMK-52N (Dodo Cr)	Jurassic	Kingak Sh	3.31	USGS [Pawlewicz]
VO-3724	Mount Michelson	69.54524	144.94166		83AMK-52M (Dodo Cr)	Jurassic	Kingak Sh	4.26	USGS [Pawlewicz]
VO-3734	Mount Michelson	69.54666	146.29800		95FC-04	Cretaceous	Canning Fm	0.78	USGS [Pawlewicz]
VO-3735	Mount Michelson	69.54666	146.29800		95FC-04B	Cretaceous	Canning Fm	0.72	USGS [Pawlewicz]
VO-3746	Mount Michelson	69.54666	146.29800		DH95-04B	Cretaceous	Canning Fm	0.72	USGS [Pawlewicz]
VO-3723	Mount Michelson	69.54670	144.94916		83AMK-52L (Dodo Cr)	Jurassic	Kingak Sh	3.39	USGS [Pawlewicz]
VO-3722	Mount Michelson	69.54859	144.95200		83AMK-52K (Dodo Cr)	Jurassic	Kingak Sh	3.24	USGS [Pawlewicz]
VO-3721	Mount Michelson	69.54976	144.95041		83AMK-52I (Dodo Cr)	Jurassic	Kingak Sh	3.16	USGS [Pawlewicz]
VO-3720	Mount Michelson	69.55195	144.95416		83AMK-52G (Dodo Cr)	Jurassic	Kingak Sh	3.11	USGS [Pawlewicz]
VO-3719	Mount Michelson	69.55399	144.95625		83AMK-52E (Dodo Cr)	Jurassic	Kingak Sh	3.25	USGS [Pawlewicz]
VO-2228	Mount Michelson	69.55638	145.83333	640	82AMK48B@-65	Jurassic	Kingak Sh	1.39	PGS - Record # 501799506800000530
VO-2229	Mount Michelson	69.55666	145.33333	853	80AMU15-2	Jurassic	Kingak Sh	1.44	PGS - Record # 501799505200000010
VO-2230	Mount Michelson	69.55694	145.45000	610	75PS110	Tertiary	Canning Fm	1.79	PGS - Record # 501799501500000010
VO-3718	Mount Michelson	69.55721	144.95625		83AMK-52C (Dodo Cr)	Triassic	Shublik Fm	2.53	USGS [Pawlewicz]
VO-3717	Mount Michelson	69.55722	144.95833		83AMK-52A (Dodo Cr)	Triassic	Shublik Fm	3.58	USGS [Pawlewicz]
VO-2231	Mount Michelson	69.55777	145.83333	640	80AMK28G@1500	Tertiary	Canning Fm	0.76	PGS - Record # 501799506800000030
VO-2232	Mount Michelson	69.55777	145.83333	640	80AMK28A@985	Tertiary	Canning Fm	0.75	PGS - Record # 501799506800000050
VO-2233	Mount Michelson	69.55777	145.83333	640	80AMK27V@680	Tertiary	Canning Fm	0.80	PGS - Record # 501799506800000070
VO-2234	Mount Michelson	69.55777	145.83333	640	80AMK27M@461	Cretaceous	Hue Sh	0.96	PGS - Record # 501799506800000090
VO-2235	Mount Michelson	69.55777	145.83333	640	80AMK27I@290	Cretaceous	Hue Sh	0.93	PGS - Record # 501799506800000110
VO-2236	Mount Michelson	69.55777	145.83333	640	80AMK27E@139	Cretaceous	Pebble Sh Unit	0.95	PGS - Record # 501799506800000160
VO-2237	Mount Michelson	69.55777	145.83333	640	80AMK27A@11	Cretaceous	Pebble Sh Unit	0.95	PGS - Record # 501799506800000180
VO-2238	Mount Michelson	69.55777	145.83333	640	82AMK18K@212	Cretaceous	Hue Sh	1.03	PGS - Record # 501799506800000260
VO-2239	Mount Michelson	69.55777	145.83333	640	82AMK18F@115	Cretaceous	Pebble Sh Unit	1.75	PGS - Record # 501799506800000310
VO-2240	Mount Michelson	69.55777	145.83333	640	82AMK18B@31	Cretaceous	Pebble Sh Unit	1.50	PGS - Record # 501799506800000350
VO-2241	Mount Michelson	69.55777	145.83333	640	82AMK47W@600	Cretaceous	Hue Sh	1.11	PGS - Record # 501799506800000400

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2242	Mount Michelson	69.55777	145.83333	640	82AMK47R@462	Cretaceous	Hue Sh	1.15	PGS - Record # 501799506800000440
VO-2243	Mount Michelson	69.55777	145.83333	640	82AMK47E@252	Cretaceous	Hue Sh	1.06	PGS - Record # 501799506800000500
VO-2244	Mount Michelson	69.55833	145.61666	610	76AMU63	Tertiary	Canning Fm	1.32	PGS - Record # 501799503000000010
VO-2245	Mount Michelson	69.55833	145.68333	488	82AMK53D	M. Triassic	Shublik Fm	1.87	PGS - Record # 501799509700000010
VO-2246	Mount Michelson	69.55833	145.68333	488	82AMK53B	M. Triassic	Shublik Fm	2.07	PGS - Record # 501799509700000030
VO-2247	Mount Michelson	69.55833	145.68333	488	82AMK53A	M. Triassic	Shublik Fm	2.10	PGS - Record # 501799509700000040
VO-2248	Mount Michelson	69.55888	145.83638	640	80AMK28Q@215	Cretaceous	Hue Sh	0.75	PGS - Record # 501799506800000140
VO-3769	Mount Michelson	69.55916	145.49331		96DH-47	Jurassic	Kingak Sh	2.01	USGS [Pawlewicz]
VO-3770	Mount Michelson	69.55916	145.49331		96DH-48	Jurassic	Kingak Sh	1.86	USGS [Pawlewicz]
VO-2249	Mount Michelson	69.55972	144.74305	732	82AMK49	Jurassic	Kingak Sh	1.09	PGS - Record # 501799509500000010
VO-2250	Mount Michelson	69.56027	144.46138	472	80AMK48B	Tertiary	Canning Fm	1.76	PGS - Record # 501799507800000010
VO-2251	Mount Michelson	69.56027	144.46138	472	80AMK48A	Tertiary	Canning Fm	1.77	PGS - Record # 501799507800000020
VO-2252	Mount Michelson	69.56111	145.82500	610	75PS81	M. Triassic	Shublik Fm	1.36	PGS - Record # 501799500800000010
VO-2253	Mount Michelson	69.56111	145.82500	610	75PS80	M. Triassic	Shublik Fm	1.39	PGS - Record # 501799500800000020
VO-2254	Mount Michelson	69.56111	145.82500	610	75PS79	M. Triassic	Shublik Fm	4.56	PGS - Record # 501799500800000030
VO-2255	Mount Michelson	69.56111	145.82500	610	75PS78	M. Triassic	Shublik Fm	0.98	PGS - Record # 501799500800000040
VO-2256	Mount Michelson	69.56111	145.82500	610	75PS77	M. Triassic	Shublik Fm	1.53	PGS - Record # 501799500800000050
VO-2257	Mount Michelson	69.56111	145.82500	610	75PS76	M. Triassic	Shublik Fm	3.02	PGS - Record # 501799500800000060
VO-2258	Mount Michelson	69.56111	145.82500	610	75PS75	M. Triassic	Shublik Fm	1.80	PGS - Record # 501799500800000070
VO-2259	Mount Michelson	69.56111	145.82500	610	75PS74	M. Triassic	Shublik Fm	1.53	PGS - Record # 501799500800000080
VO-2260	Mount Michelson	69.56111	145.82500	610	75PS73	M. Triassic	Shublik Fm	1.24	PGS - Record # 501799500800000090
VO-2261	Mount Michelson	69.56111	145.82500	610	75PS72	M. Triassic	Shublik Fm	1.94	PGS - Record # 501799500800000100
VO-2262	Mount Michelson	69.56111	145.82500	610	75PS71	M. Triassic	Shublik Fm	1.81	PGS - Record # 501799500800000110
VO-3753	Mount Michelson	69.56143	145.47500		DH95-41B	Early Cretaceous	Pebble Sh	1.79	USGS [Pawlewicz]
VO-3767	Mount Michelson	69.56151	145.47325		96DH-44	Jurassic	Kingak Sh	1.90	USGS [Pawlewicz]
VO-3768	Mount Michelson	69.56151	145.47325		96DH-46	Jurassic	Kingak Sh	2.01	USGS [Pawlewicz]
VO-2263	Mount Michelson	69.56250	145.85416	640	76AMU31-2	Cretaceous	Pebble Sh Unit	0.51	PGS - Record # 501799502700000010
VO-2264	Mount Michelson	69.56305	145.81277	579	80AMK34A2100	Tertiary	Canning Fm	0.76	PGS - Record # 501799507000000020
VO-2265	Mount Michelson	69.56305	145.81555	579	80AMK34C2150	Tertiary	Canning Fm	0.75	PGS - Record # 501799507000000010
VO-2266	Mount Michelson	69.56361	145.86111	640	80AMK28K@1755	Tertiary	Canning Fm	0.95	PGS - Record # 501799506800000010
VO-2267	Mount Michelson	69.56388	145.36666	366	75PS112	M. Triassic	Shublik Fm	1.75	PGS - Record # 501799501600000010
VO-2268	Mount Michelson	69.56388	145.36666	366	75PS111	M. Triassic	Shublik Fm	1.64	PGS - Record # 501799501600000020
VO-2269	Mount Michelson	69.56666	145.60416	610	75PS109	Tertiary	Canning Fm	1.79	PGS - Record # 501799501400000010
VO-2270	Mount Michelson	69.56666	145.60416	610	75PS108	Tertiary	Canning Fm	1.75	PGS - Record # 501799501400000020
VO-2271	Mount Michelson	69.57833	145.63500		80AMU13-0	Jurassic	Kingak Sh	1.15	PGS - Record # 501799505000000010
VO-2272	Mount Michelson	69.57833	145.83333	549	80AMU11-2	Cretaceous	Pebble Sh Unit	1.04	PGS - Record # 501799504900000010
VO-3739	Mount Michelson	69.58166	145.60833		95FC-24	Jurassic	Kingak Sh	1.61	USGS [Pawlewicz]
VO-3745	Mount Michelson	69.58233	146.30650		DH95-03	Cretaceous	Canning Fm	0.75	USGS [Pawlewicz]
VO-3744	Mount Michelson	69.5825	146.30633		DH95-02	Cretaceous	Canning Fm	0.86	USGS [Pawlewicz]
VO-3743	Mount Michelson	69.58283	146.30600		DH95-01B	Cretaceous	Canning Fm	1.71	USGS [Pawlewicz]
VO-2273	Mount Michelson	69.58333	145.60000	549	75PS106	M. Triassic	Shublik Fm	2.25	PGS - Record # 501799501300000020
VO-2274	Mount Michelson	69.58333	145.60000	549	75PS105	M. Triassic	Shublik Fm	1.55	PGS - Record # 501799501300000030
VO-2275	Mount Michelson	69.58555	145.96944	427	82AMK55K@541	Cretaceous	Pebble Sh Unit	0.95	PGS - Record # 501799509800000020
VO-2276	Mount Michelson	69.58555	145.96944	427	82AMK55G@330	Cretaceous	Pebble Sh Unit	1.65	PGS - Record # 501799509800000050
VO-2277	Mount Michelson	69.58555	145.96944	427	82AMK56A	M. Triassic	Shublik Fm	1.76	PGS - Record # 501799509800000110
VO-2278	Mount Michelson	69.60000	146.10000	305	76AMU29-2	Cretaceous	Pebble Sh Unit	1.36	PGS - Record # 501799502600000010
VO-2279	Mount Michelson	69.60083	146.10333	305	80AMU7-4	Cretaceous	Pebble Sh Unit	1.23	PGS - Record # 501799504700000010
VO-2280	Mount Michelson	69.60083	146.10333	305	80AMU7-2	Cretaceous	Pebble Sh Unit	1.21	PGS - Record # 501799504700000020
VO-2281	Mount Michelson	69.60416	146.13333	274	76AMU28	Tertiary	Canning Fm	0.94	PGS - Record # 501799502500000010
VO-3742	Mount Michelson	69.60566	146.77616		95FC-30	Tertiary	Sagavanirktok Fm	0.61	USGS [Pawlewicz]
VO-3777	Mount Michelson	69.61328	144.45859		96DH-89	Early Cretaceous	Pebble Sh ?	2.86	USGS [Pawlewicz]
VO-3766	Mount Michelson	69.61869	144.45342		96DH-29	Early Cretaceous	Pebble Sh	2.55	USGS [Pawlewicz]
VO-2282	Mount Michelson	69.62916	144.45416	366	76AMU64-1	M. Triassic	Shublik Fm	2.07	PGS - Record # 501799503100000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2283	Mount Michelson	69.63055	144.42777	335	80AMK49E	Cretaceous	Pebble Sh Unit	1.76	PGS - Record # 50179950790000010
VO-3762	Mount Michelson	69.63095	144.43323		96DH-3	Early Cretaceous	Pebble Sh	2.58	USGS [Pawlewicz]
VO-3763	Mount Michelson	69.63095	144.43323		96DH-17	Early Cretaceous	Pebble Sh	2.58	USGS [Pawlewicz]
VO-3764	Mount Michelson	69.63095	144.43323		96DH-22	Triassic	Shublik Fm	1.71	USGS [Pawlewicz]
VO-3765	Mount Michelson	69.63095	144.43323		96DH-23	Early Cretaceous	Pebble Sh	2.54	USGS [Pawlewicz]
VO-2284	Mount Michelson	69.63194	144.43750	366	83AMK42H	Cretaceous	Pebble Sh Unit	2.89	PGS - Record # 50179951130000020
VO-3738	Mount Michelson	69.64	146.85200		95FC-13B	Tertiary	Sagavanirktok Fm	0.43	USGS [Pawlewicz]
VO-2285	Mount Michelson	69.65305	146.85694	229	80ACH16B	Tertiary	Sagavanirktok Fm	0.74	PGS - Record # 50179950850000010
VO-3740	Mount Michelson	69.6533	146.24000		95FC-25	Tertiary	Sagavanirktok Fm	0.50	USGS [Pawlewicz]
VO-2286	Mount Michelson	69.65416	145.25416	488	76AMU26	Cretaceous	Pebble Sh Unit	1.64	PGS - Record # 50179950240000010
VO-2287	Mount Michelson	69.65666	146.23500	198	80AMK30A	Tertiary	Canning Fm	0.75	PGS - Record # 50179950690000010
VO-2288	Mount Michelson	69.65694	145.28333	457	75PS101	Cretaceous	Pebble Sh Unit	1.22	PGS - Record # 50179950110000010
VO-2289	Mount Michelson	69.65833	144.38333	305	76AMU48	Jurassic	Kingak Sh	1.89	PGS - Record # 50179950290000010
VO-3778	Mount Michelson	69.65927	144.38125		96DH-96	Early Cretaceous	Kemik Ss	2.72	USGS [Pawlewicz]
VO-3779	Mount Michelson	69.65927	144.38125		96DH-97	Early Cretaceous	Kemik Ss	2.06	USGS [Pawlewicz]
VO-3741	Mount Michelson	69.66166	146.24000		95FC-26	Tertiary	Sagavanirktok Fm	0.54	USGS [Pawlewicz]
VO-3747	Mount Michelson	69.67691	144.85167		DH95-05	Triassic?	Kavik Mbr Ivishak Fm	1.66	USGS [Pawlewicz]
VO-2290	Mount Michelson	69.67777	144.84583	549	83AMK39L	Cretaceous	Pebble Sh Unit	2.03	PGS - Record # 50179951110000020
VO-2291	Mount Michelson	69.67777	144.84583	549	83AMK39D	Permian-Triassic	Kavik Mbr	2.04	PGS - Record # 50179951110000060
VO-3754	Mount Michelson	69.678	145.21833		DH95-49	Early Cretaceous	Pebble Sh	1.35	USGS [Pawlewicz]
VO-2292	Mount Michelson	69.67916	144.54166	488	76AMU4-2	Cretaceous	Pebble Sh Unit	1.77	PGS - Record # 50179950170000020
VO-2293	Mount Michelson	69.67916	144.54166	488	76AMU4-1	Cretaceous	Pebble Sh Unit	1.63	PGS - Record # 50179950170000030
VO-2294	Mount Michelson	69.67916	144.54166	488	76AMU4	Jurassic	Kingak Sh	1.72	PGS - Record # 50179950170000040
VO-2295	Mount Michelson	69.67916	144.54166	457	76AMU8	Jurassic	Kingak Sh	2.88	PGS - Record # 50179950180000010
VO-2296	Mount Michelson	69.67916	145.19583	457	83AMK38B	Cretaceous	Pebble Sh Unit	1.59	PGS - Record # 50179951100000030
VO-2297	Mount Michelson	69.67916	145.20833	488	83AMK37	Cretaceous	Pebble Sh Unit	1.60	PGS - Record # 50179951090000010
VO-2298	Mount Michelson	69.67916	145.22500	427	76AMU24-3	Cretaceous	Pebble Sh Unit	1.42	PGS - Record # 50179950230000010
VO-2299	Mount Michelson	69.67916	145.22500	427	76AMU24-2	Cretaceous	Pebble Sh Unit	1.14	PGS - Record # 50179950230000020
VO-2300	Mount Michelson	69.67916	145.22500	427	76AMU24-1	Cretaceous	Pebble Sh Unit	1.26	PGS - Record # 50179950230000030
VO-3782	Mount Michelson	69.68025	144.97396		96DH-131	Early Cretaceous	Kemik Ss	1.86	USGS [Pawlewicz]
VO-2301	Mount Michelson	69.68111	144.97916	549	80AMK38C	Cretaceous	Pebble Sh Unit	0.95	PGS - Record # 50179950710000010
VO-2302	Mount Michelson	69.68166	144.97333	549	80AMU27-3	Permian-Triassic	Sadlerochit Gp	1.18	PGS - Record # 50179950610000030
VO-2303	Mount Michelson	69.68166	144.97333	549	80AMU27-2	Permian-Triassic	Sadlerochit Gp	1.11	PGS - Record # 50179950610000040
VO-2304	Mount Michelson	69.68333	144.39166	305	76AMU47	Tertiary	Canning Fm	1.41	PGS - Record # 50179950280000010
VO-2305	Mount Michelson	69.68333	144.83666	335	80AMU16-18A	Cretaceous	Pebble Sh Unit	1.64	PGS - Record # 50179950530000010
VO-2306	Mount Michelson	69.68333	144.83666	335	80AMU16-18	Cretaceous	Pebble Sh Unit	1.75	PGS - Record # 50179950530000020
VO-2307	Mount Michelson	69.68333	144.83666	335	80AMU16-17	Cretaceous	Pebble Sh Unit	1.63	PGS - Record # 50179950530000030
VO-2308	Mount Michelson	69.68333	144.83666	335	80AMU16-9	Cretaceous	Pebble Sh Unit	1.61	PGS - Record # 50179950530000040
VO-2309	Mount Michelson	69.68333	144.83666	335	80AMU16-8	Cretaceous	Pebble Sh Unit	1.87	PGS - Record # 50179950530000050
VO-2310	Mount Michelson	69.68333	144.83666	335	80AMU16-7	Cretaceous	Pebble Sh Unit	1.82	PGS - Record # 50179950530000060
VO-2311	Mount Michelson	69.68333	144.83666	335	80AMU16-5	Cretaceous	Pebble Sh Unit	1.78	PGS - Record # 50179950530000070
VO-2312	Mount Michelson	69.68333	144.83666	335	80AMU16-4	Cretaceous	Pebble Sh Unit	1.81	PGS - Record # 50179950530000080
VO-2313	Mount Michelson	69.68333	144.83666	335	80AMU16-3	Permian-Triassic	Kavik Mbr	1.87	PGS - Record # 50179950530000090
VO-2314	Mount Michelson	69.68333	144.83666	335	80AMU16-2	Permian	Echooka Fm	1.84	PGS - Record # 50179950530000100
VO-2315	Mount Michelson	69.68333	144.84666	549	80AMU25	Cretaceous	Pebble Sh Unit	1.51	PGS - Record # 50179950590000010
VO-2316	Mount Michelson	69.68333	145.21666	549	75PS98	Cretaceous	Pebble Sh Unit	1.02	PGS - Record # 50179950100000010
VO-2317	Mount Michelson	69.68333	145.21666	549	75PS97	Cretaceous	Pebble Sh Unit	0.91	PGS - Record # 50179950100000020
VO-2318	Mount Michelson	69.68333	145.21666	549	75PS96	Cretaceous	Pebble Sh Unit	1.09	PGS - Record # 50179950100000030
VO-2319	Mount Michelson	69.68333	145.21666	549	75PS95	Cretaceous	Pebble Sh Unit	1.33	PGS - Record # 50179950100000040
VO-2320	Mount Michelson	69.68333	145.21666	549	75PS94	Cretaceous	Pebble Sh Unit	1.33	PGS - Record # 50179950100000050
VO-2321	Mount Michelson	69.68333	145.21666	549	75PS93	Cretaceous	Pebble Sh Unit	1.34	PGS - Record # 50179950100000060
VO-2322	Mount Michelson	69.68333	145.21666	549	75PS92	Cretaceous	Pebble Sh Unit	1.27	PGS - Record # 50179950100000070
VO-2323	Mount Michelson	69.68333	145.21666	549	75PS91	Cretaceous	Pebble Sh Unit	1.30	PGS - Record # 50179950100000080

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2324	Mount Michelson	69.68333	145.21666	549	75PS90	Cretaceous	Pebble Sh Unit	1.29	PGS - Record # 50179950100000090
VO-3748	Mount Michelson	69.6839	144.84250		DH95-11	Early Cretaceous	? (Kingak, Pebble, or Hue Sh)	1.72	USGS [Pawlewicz]
VO-2325	Mount Michelson	69.68416	144.84666	549	80AMU26	Jurassic	Kingak Sh	1.73	PGS - Record # 50179950600000010
VO-2326	Mount Michelson	69.68500	144.84333	610	80AMU24	Jurassic	Kingak Sh	1.65	PGS - Record # 50179950570000010
VO-3749	Mount Michelson	69.68515	144.84333		DH95-13	Jurassic-Cretaceous	Kingak Sh (?)	1.75	USGS [Pawlewicz]
VO-2327	Mount Michelson	69.68750	144.98333	488	76AMU18	Cretaceous	Pebble Sh Unit	1.66	PGS - Record # 50179950210000010
VO-2328	Mount Michelson	69.69027	145.56666	335	75PS104	Tertiary	Canning Fm	0.47	PGS - Record # 50179950120000010
VO-2329	Mount Michelson	69.69027	145.56666	335	75PS103	Tertiary	Canning Fm	0.44	PGS - Record # 50179950120000020
VO-2330	Mount Michelson	69.69027	145.56666	335	75PS102	Tertiary	Canning Fm	0.45	PGS - Record # 50179950120000030
VO-2331	Mount Michelson	69.69166	145.06666	488	76AMU21	Cretaceous	Hue Sh	1.07	PGS - Record # 50179950200000020
VO-2332	Mount Michelson	69.69333	144.85833	610	80AMU20-1	Jurassic	Kingak Sh	1.37	PGS - Record # 50179950540000010
VO-2333	Mount Michelson	69.70333	144.88500	457	80AMU21	Cretaceous	Pebble Sh Unit	1.19	PGS - Record # 50179950550000010
VO-2334	Mount Michelson	69.71333	145.58638	259	80AMK86C	Tertiary	Sagavanirktok Fm	0.75	PGS - Record # 50179950840000010
VO-2335	Mount Michelson	69.71333	145.58638	259	80AMK86A	Tertiary	Sagavanirktok Fm	0.75	PGS - Record # 50179950840000020
VO-2336	Mount Michelson	69.71527	145.43333	280	80AMK41H	Tertiary	Canning Fm	0.73	PGS - Record # 50179950720000010
VO-2337	Mount Michelson	69.71527	145.43333	280	80AMK41C	Tertiary	Canning Fm	0.52	PGS - Record # 50179950720000030
VO-2338	Mount Michelson	69.71666	145.43333	305	76AMU109	Tertiary	Canning Fm	0.57	PGS - Record # 50179950320000010
VO-2339	Mount Michelson	69.72083	144.90833	427	76AMU17-1	Cretaceous	Hue Sh	0.85	PGS - Record # 50179950200000010
VO-2340	Mount Michelson	69.72083	144.90833	427	76AMU17	Cretaceous	Hue Sh	0.76	PGS - Record # 50179950200000020
VO-2341	Mount Michelson	69.75000	145.33750	244	76AMU110	Tertiary	Sagavanirktok Fm	0.50	PGS - Record # 50179950330000010
VO-3783	Mount Michelson	69.75794	145.32552		96DH-151	Tertiary	Canning Fm	0.45	USGS [Pawlewicz]
VO-2342	Mount Michelson	69.78750	145.31250	518	76AMU111	Tertiary	Sagavanirktok Fm	0.32	PGS - Record # 50179950340000010
VO-2343	Mount Michelson	69.79444	145.31944	213	83AMK35	Tertiary	Sagavanirktok Fm	0.77	PGS - Record # 50179951080000010
VO-2344	Mount Michelson	69.83333	145.35000	183	83AMK34	Tertiary	Sagavanirktok Fm	0.90	PGS - Record # 50179951070000010
VO-2345	Mount Michelson	69.86111	145.27500	152	83AMK33A	Tertiary	Sagavanirktok Fm	1.91	PGS - Record # 50179951060000020
VO-2346	Mount Michelson	69.90833	144.64999	91	Tert No.1 Above 84	Tertiary	Sagavanirktok Fm	0.25	PGS - Record # 50179950090000010
VO-2347	Mount Michelson	69.90833	144.64999	91	Tert No.2 Between 83-8	Tertiary	Sagavanirktok Fm	0.25	PGS - Record # 50179950090000020
VO-2348	Mount Michelson	69.90833	144.64999	91	75PS84	Tertiary	Sagavanirktok Fm	0.24	PGS - Record # 50179950090000030
VO-2349	Mount St Elias	60.023	139.952		71F-19A	Cretaceous	Yakutat	0.50	Shell Oil Company
VO-2350	Mount St Elias	60.023	139.952		71F-19C	Cretaceous	Yakutat	0.57	Shell Oil Company
VO-2351	Mount St Elias	60.065	140.232		69APR81A1	Eocene-Paleocene	Kulthieth	0.84	Shell Oil Company
VO-2352	Mount St Elias	60.125	140.772		71F-798	Pliocene-Miocene	Yakataga	0.99	Shell Oil Company
VO-2353	Mount St Elias	60.127	140.688		71F-67A	Pliocene-Miocene	Yakataga	0.58	Shell Oil Company
VO-2354	Mount St Elias	60.127	140.707		71F-758	Miocene-Pleistocene	Yakataga	0.66	Shell Oil Company
VO-2355	Mount St Elias	60.127	140.707		68A-6	Miocene-Pliocene	Yakataga	0.71	Shell Oil Company
VO-2356	Mount St Elias	60.127	140.707		71F-75A	Miocene-Pliocene	Yakataga	0.69	Shell Oil Company
VO-2357	Mount St Elias	60.127	140.707		71F-75C	Miocene-Pliocene	Yakataga	0.52	Shell Oil Company
VO-2358	Mount St Elias	60.128	139.452		69APR41A1	Eocene-Paleocene	Kulthieth	1.73	Shell Oil Company
VO-2359	Mount St Elias	60.128	139.452		69APR41A2	Eocene-Paleocene	Kulthieth	1.87	Shell Oil Company
VO-2360	Mount St Elias	60.137	140.325		71F-81	Pliocene-Miocene	Yakataga	0.60	Shell Oil Company
VO-2361	Mount St Elias	60.138	140.208		68A1 (1970)	Eocene	Kulthieth	0.56	Shell Oil Company
VO-2362	Mount St Elias	60.138	140.208		68A1 (1968)	Eocene	Kulthieth	0.55	Shell Oil Company
VO-2363	Mount St Elias	60.138	140.208		68A2	Oligocene-Eocene	Kulthieth	0.47	Shell Oil Company
VO-2364	Mount St Elias	60.138	140.237		71F-73A	Pliocene-Miocene	Yakataga	0.48	Shell Oil Company
VO-2365	Mount St Elias	60.143	140.643		71F-64B	Eocene	Kulthieth	0.50	Shell Oil Company
VO-2366	Mount St Elias	60.143	140.643		71F-84B	Eocene	Kulthieth	0.52	Shell Oil Company
VO-2367	Mount St Elias	60.143	140.643		71F-89B	Eocene	Kulthieth	0.74	Shell Oil Company
VO-2368	Mount St Elias	60.148	140.742		69APR96B	Eocene-Paleocene	Kulthieth	0.67	Shell Oil Company
VO-2369	Mount St Elias	60.148	140.743		80R-29A	Eocene	Kulthieth	0.54	Shell Oil Company
VO-2370	Mount St Elias	60.148	140.743		80R-29B	Eocene	Kulthieth	0.58	Shell Oil Company
VO-2371	Mount St Elias	60.148	140.743		80R-29C	Eocene	Kulthieth	0.65	Shell Oil Company
VO-2372	Mount St Elias	60.152	140.707		71F68B	Eocene	Kulthieth	0.42	Shell Oil Company
VO-2373	Mount St Elias	60.152	140.707		71F68C	Eocene	Kulthieth	0.58	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops									
		North	West	Elev				Mean Ro	
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	(%)	Source of Data
VO-2374	Mount St Elias	60.152	140.707		73B+0 6	Eocene	Kulthieth	0.59	Shell Oil Company
VO-2375	Mount St Elias	60.152	140.707		73B+20 0-10	Eocene	Kulthieth	0.47	Shell Oil Company
VO-2376	Mount St Elias	60.152	140.707		73B+20 10-20	Eocene	Kulthieth	0.46	Shell Oil Company
VO-2377	Mount St Elias	60.152	140.707		73B+20 20-30	Eocene	Kulthieth	0.45	Shell Oil Company
VO-2378	Mount St Elias	60.152	140.707		73B+200 top	Eocene	Kulthieth	0.51	Shell Oil Company
VO-2379	Mount St Elias	60.152	140.707		73B+200 bot	Eocene	Kulthieth	0.62	Shell Oil Company
VO-2380	Mount St Elias	60.152	140.707		73B-74+0 0-9	Eocene	Kulthieth	0.60	Shell Oil Company
VO-2381	Mount St Elias	60.152	140.707		73B-74+0 9-19	Eocene	Kulthieth	0.58	Shell Oil Company
VO-2382	Mount St Elias	60.152	140.707		73B-74+10 0-1	Eocene	Kulthieth	0.63	Shell Oil Company
VO-2383	Mount St Elias	60.152	140.707		73B-74+10 1-2	Eocene	Kulthieth	0.59	Shell Oil Company
VO-2384	Mount St Elias	60.152	140.707		73B-74+10 2-3	Eocene	Kulthieth	0.62	Shell Oil Company
VO-2385	Mount St Elias	60.152	140.707		73B-74+10 3-4	Eocene	Kulthieth	0.57	Shell Oil Company
VO-2386	Mount St Elias	60.152	140.707		73B-75+0	Eocene	Kulthieth	0.62	Shell Oil Company
VO-2387	Mount St Elias	60.152	140.707		73B-75-3	Eocene	Kulthieth	0.60	Shell Oil Company
VO-2388	Mount St Elias	60.152	140.707		80R-28C	Cretaceous	Yakutat	0.61	Shell Oil Company
VO-2389	Mount St Elias	60.152	140.707		71F-68	Eocene-Oligocene	Kulthieth	0.42	Shell Oil Company
VO-2390	Mount St Elias	60.152	140.707		71F-68C	Eocene-Oligocene	Kulthieth	0.57	Shell Oil Company
VO-2391	Mount St Elias	60.152	140.707		71F-68F	Eocene-Oligocene	Kulthieth	0.50	Shell Oil Company
VO-2392	Mount St Elias	60.152	140.707		73B-73+0	Eocene	Kulthieth	0.49	Shell Oil Company
VO-2393	Mount St Elias	60.152	140.707		73B-73+200	Eocene	Kulthieth	0.56	Shell Oil Company
VO-2394	Mount St Elias	60.152	140.707		73B-73+280	Eocene	Kulthieth	0.37	Shell Oil Company
VO-2395	Mount St Elias	60.152	140.707		73B-74+0	Eocene	Kulthieth	0.46	Shell Oil Company
VO-2396	Mount St Elias	60.152	140.707		73B-74+10	Eocene	Kulthieth	0.57	Shell Oil Company
VO-2397	Mount St Elias	60.152	140.707		73B-74+10*	Eocene	Kulthieth	0.50	Shell Oil Company
VO-2398	Mount St Elias	60.152	140.707		73B-75+0	Eocene	Kulthieth	0.52	Shell Oil Company
VO-2399	Mount St Elias	60.152	140.707		71F-68A	Eocene-Oligocene	Kulthieth	0.47	Shell Oil Company
VO-2400	Mount St Elias	60.152	140.707		71F-68D	Pliocene-Miocene	Yakataga	0.49	Shell Oil Company
VO-2401	Mount St Elias	60.152	140.707		71F-68E	Pliocene-Miocene	Yakataga	0.53	Shell Oil Company
VO-2402	Mount St Elias	60.152	140.707		73B-73+200	Eocene	Kulthieth	0.58	Shell Oil Company
VO-2403	Mount St Elias	60.152	140.707		73B-74+0	Eocene	Kulthieth	0.63	Shell Oil Company
VO-2404	Mount St Elias	60.153	140.585		80R-28A	Eocene	Kulthieth	0.54	Shell Oil Company
VO-2405	Mount St Elias	60.153	140.585		80R-28B	Eocene	Kulthieth	0.61	Shell Oil Company
VO-2406	Mount St Elias	60.155	140.297		71F-93A	Eocene	Kulthieth	0.59	Shell Oil Company
VO-2407	Mount St Elias	60.155	140.645		71F-88A	Cretaceous	Yakutat	1.22	Shell Oil Company
VO-2408	Mount St Elias	60.157	140.647		0040517	Eocene	Kulthieth	0.65	Chevron
VO-2409	Mount St Elias	60.158	140.670		0040513	Eocene	Kulthieth	0.47	Chevron
VO-2410	Mount St Elias	60.158	140.670		0040513	Eocene	Kulthieth	0.59	Chevron
VO-2411	Mount St Elias	60.158	140.670		0040513	Eocene	Kulthieth	0.59	Chevron
VO-2412	Mount St Elias	60.158	140.670		0040513	Eocene	Kulthieth	0.62	Chevron
VO-2413	Mount St Elias	60.158	140.670		0040513	Eocene	Kulthieth	0.65	Chevron
VO-2414	Mount St Elias	60.158	140.670		0040515	Eocene	Kulthieth	0.43	Chevron
VO-2415	Mount St Elias	60.158	140.670		0040515	Eocene	Kulthieth	0.55	Chevron
VO-2416	Mount St Elias	60.158	140.670		0040515	Eocene	Kulthieth	0.38	Chevron
VO-2417	Mount St Elias	60.167	140.355		71F-91B	Pleistocene-Miocene	Yakataga	0.48	Shell Oil Company
VO-2418	Mount St Elias	60.167	140.355		71F-91D	Pleistocene-Miocene	Yakataga	0.44	Shell Oil Company
VO-2419	Mount St Elias	60.167	140.355		71F-93A	Eocene-Oligocene	Kulthieth	0.55	Shell Oil Company
VO-2420	Mount St Elias	60.168	140.645		71F-85D	Pliocene-Miocene?	Yakataga	1.66	Shell Oil Company
VO-2421	Mount St Elias	60.168	140.645		71F-85E	U. Cretaceous ?	Yakutat	1.28	Shell Oil Company
VO-2422	Mount St Elias	60.168	140.670		0040506	Eocene	Kulthieth	0.53	Chevron
VO-2423	Mount St Elias	60.168	140.670		0040506	Eocene	Kulthieth	0.47	Chevron
VO-2424	Mount St Elias	60.168	140.810		69APR105A	Eocene-Paleocene	Kulthieth	0.84	Shell Oil Company
VO-2425	Mount St Elias	60.170	140.645		71F64B	Eocene	Kulthieth	0.58	Shell Oil Company
VO-2426	Mount St Elias	60.170	140.645		71F84B	Eocene	Kulthieth	0.55	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2427	Mount St Elias	60.170	140.645		71F88A	Cretaceous	Yakutat	1.18	Shell Oil Company
VO-2428	Mount St Elias	60.170	140.645		71F88C	Cretaceous	Yakutat	1.23	Shell Oil Company
VO-2429	Mount St Elias	60.170	140.645		0040502			0.80	Chevron
VO-2430	Mount St Elias	60.170	140.645		0040516			0.55	Chevron
VO-2431	Mount St Elias	60.178	140.413		71F-110A	Eocene	Kulthieth	1.41	Shell Oil Company
VO-2432	Mount St Elias	60.178	140.413		71F-110C	Eocene	Kulthieth	1.38	Shell Oil Company
VO-2433	Mount St Elias	60.180	140.645		71F-85B	Pliocene-Miocene	Yakataga	0.41	Shell Oil Company
VO-2434	Mount St Elias	60.197	140.850		71F-111A	Eocene	Kulthieth	1.44	Shell Oil Company
VO-2435	Mount St Elias	60.198	140.783		80R-30	Eocene	Kulthieth	0.67	Shell Oil Company
VO-2436	Mount St Elias	60.198	140.783		80R-31	Eocene	Kulthieth	0.93	Shell Oil Company
VO-2437	Mount St Elias	60.202	140.742		69APR50A	Eocene-Paleocene	Kulthieth	1.78	Shell Oil Company
VO-2438	Mount St Elias	60.213	140.985		69APR52A1	Eocene-Paleocene	Kulthieth	1.37	Shell Oil Company
VO-2439	Mount St Elias	60.227	140.995		69APR51E	Eocene-Paleocene	Kulthieth	3.25	Shell Oil Company
VO-2440	Mount St Elias	60.240	140.908		69APR-50B1	Cretaceous	Yakutat	5.04	Shell Oil Company
VO-2441	Mount St Elias	60.257	140.713		69APR48C2	Eocene-Paleocene	Kulthieth	1.13	Shell Oil Company
VO-2442	Mount St Elias	60.257	140.713		69APR48D	Eocene-Paleocene	Kulthieth	1.31	Shell Oil Company
VO-2443	Mount St Elias	60.257	140.713		72N1+40	Eocene-Paleocene	Kulthieth	1.19	Shell Oil Company
VO-2444	Mount St Elias	60.257	140.713		72N1+315	Eocene-Paleocene	Kulthieth	1.15	Shell Oil Company
VO-2445	Mount St Elias	60.257	140.713		72N1+410	Eocene-Paleocene	Kulthieth	1.06	Shell Oil Company
VO-2446	Mount St Elias	60.257	140.713		72N1+40 (2)	Oligocene-Eocene	Kulthieth	0.95	Shell Oil Company
VO-2447	Mount St Elias	60.257	140.713		72N1+315 (2)	Oligocene-Eocene	Kulthieth	0.91	Shell Oil Company
VO-2448	Mount St Elias	60.257	140.713		72N1+410 (2)	Oligocene-Eocene	Kulthieth	0.94	Shell Oil Company
VO-2449	Mount St Elias	60.965	139.918		71F-20A	Cretaceous	Yakutat	0.44	Shell Oil Company
VO-2450	Mount St Elias	60.965	139.918		71F-20C (heavy)	Cretaceous	Yakutat	0.46	Shell Oil Company
VO-2451	Mount St Elias	60.965	139.918		71F-20C (coal)	Cretaceous	Yakutat	0.49	Shell Oil Company
VO-2452	Nome	64.725	165.917		11A	Tertiary		0.86	Fisher, 1982
VO-2453	Nome	64.725	165.917		11B	Tertiary		0.92	Fisher, 1982
VO-2454	Nome	64.738	165.917		81F31A	Tertiary or Cretaceous		0.80	Shell Oil Company
VO-2455	Nome	64.738	165.917		81F31C	Tertiary or Cretaceous		0.91	Shell Oil Company
VO-2456	Nome	64.738	165.917		81F31D (1)	Tertiary or Cretaceous		0.67	Shell Oil Company
VO-2457	Nome	64.738	165.917		81F31D (2)	Tertiary or Cretaceous		0.94	Shell Oil Company
VO-2458	Nome	64.738	165.917		81F31E	Tertiary or Cretaceous		0.92	Shell Oil Company
VO-2459	Nome	64.738	165.917		81F31F	Tertiary or Cretaceous		0.92	Shell Oil Company
VO-2460	Nome	64.738	165.917		81F31G	Tertiary or Cretaceous		0.94	Shell Oil Company
VO-2461	Norton Bay	64.017	160.900		19A	Tertiary		2.74	Fisher, 1982
VO-2462	Norton Bay	64.017	160.900		19B	Tertiary		3.22	Fisher, 1982
VO-2463	Norton Bay	64.017	160.900		19C	Tertiary		3.27	Fisher, 1982
VO-2464	Norton Bay	64.017	160.900		19D	Tertiary		3.45	Fisher, 1982
VO-2465	Norton Bay	64.017	160.900		19E	Tertiary		1.91	Fisher, 1982
VO-2466	Norton Bay	64.017	160.900		19F	Tertiary		1.92	Fisher, 1982
VO-2467	Norton Bay	64.050	160.000		14	Tertiary		0.30	Fisher, 1982
VO-2468	Norton Bay	64.108	160.933		18	Tertiary		2.53	Fisher, 1982
VO-2469	Norton Bay	64.12555	159.88194	116	85APA61	Cretaceous		2.24	USGS [Pawlewicz]
VO-2470	Norton Bay	64.15750	160.95194	6	85APA42	Cretaceous		2.47	USGS [Pawlewicz]
VO-2471	Norton Bay	64.158	160.933		16A	Tertiary		2.27	Fisher, 1982
VO-2472	Norton Bay	64.158	160.933		16B	Tertiary		2.42	Fisher, 1982
VO-2473	Norton Bay	64.17777	159.86111	145	85APA20	Cretaceous		3.71	USGS [Pawlewicz]
VO-2474	Norton Bay	64.18472	159.83416	152	85APA60	Cretaceous		3.19	USGS [Pawlewicz]
VO-2475	Norton Bay	64.18750	160.95361	3	85APA44	Cretaceous		2.40	USGS [Pawlewicz]
VO-2476	Norton Bay	64.192	160.950		15A	Tertiary		1.96	Fisher, 1982
VO-2477	Norton Bay	64.192	160.950		15B	Tertiary		2.63	Fisher, 1982
VO-2478	Norton Bay	64.192	160.950		15C	Tertiary		2.47	Fisher, 1982
VO-2479	Norton Bay	64.25000	159.74583	204	85APA19	Cretaceous		2.66	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2480	Norton Bay	64.29722	159.63388	268	85APA59	Cretaceous		2.60	USGS [Pawlewicz]
VO-2481	Norton Bay	64.33055	160.40944	192	85APA24	Cretaceous		2.97	USGS [Pawlewicz]
VO-2482	Norton Bay	64.33583	160.33944	256	85APA23	Cretaceous		3.06	USGS [Pawlewicz]
VO-2483	Norton Bay	64.33888	159.17916	738	85APA57	Cretaceous		3.32	USGS [Pawlewicz]
VO-2484	Norton Bay	64.35138	160.29444	305	85APA22	Cretaceous		2.51	USGS [Pawlewicz]
VO-2485	Norton Bay	64.36944	159.33055	393	85APA16	Cretaceous		1.49	USGS [Pawlewicz]
VO-2486	Norton Bay	64.37222	160.74166	37	85APA46W	Cretaceous		2.11	USGS [Pawlewicz]
VO-2487	Norton Bay	64.38833	159.88694	244	85APA63	Cretaceous		1.61	USGS [Pawlewicz]
VO-2488	Norton Bay	64.39111	160.47083	116	85APA25	Cretaceous		3.62	USGS [Pawlewicz]
VO-2489	Norton Bay	64.41444	159.73833	329	85APA41	Cretaceous		1.47	USGS [Pawlewicz]
VO-2490	Norton Bay	64.41527	159.18333	299	85APA15	Cretaceous		3.08	USGS [Pawlewicz]
VO-2491	Norton Bay	64.425	160.000		23A	Tertiary		1.15	Fisher, 1982
VO-2492	Norton Bay	64.425	160.000		23B	Tertiary		1.19	Fisher, 1982
VO-2493	Norton Bay	64.42638	160.57055	70	85APA47	Cretaceous		3.05	USGS [Pawlewicz]
VO-2494	Norton Bay	64.467	161.450		24	Tertiary		1.86	Fisher, 1982
VO-2495	Norton Bay	64.48555	159.45000	884	85APA64	Cretaceous		1.80	USGS [Pawlewicz]
VO-2496	Norton Bay	64.49361	160.45888	509	85APA27	Cretaceous		2.79	USGS [Pawlewicz]
VO-2497	Norton Bay	64.50416	160.39722	433	85APA26	Cretaceous		2.85	USGS [Pawlewicz]
VO-2498	Norton Bay	64.50611	159.41944	838	85APA65	Cretaceous		1.74	USGS [Pawlewicz]
VO-2499	Norton Bay	64.51722	159.87833	1040	85APA32	Cretaceous		1.86	USGS [Pawlewicz]
VO-2500	Norton Bay	64.52166	159.44305	762	85APA6	Cretaceous		1.58	USGS [Pawlewicz]
VO-2501	Norton Bay	64.52249	159.67000	884	85APA33	Cretaceous		1.54	USGS [Pawlewicz]
VO-2502	Norton Bay	64.53194	159.58833	518	85APA30	Cretaceous		1.20	USGS [Pawlewicz]
VO-2503	Norton Bay	64.53249	159.21000	747	85APA18	Cretaceous		3.27	USGS [Pawlewicz]
VO-2504	Norton Bay	64.55833	159.55000	457	85APA29	Cretaceous		1.33	USGS [Pawlewicz]
VO-2505	Norton Bay	64.56777	159.28583	421	85APA67	Cretaceous		2.00	USGS [Pawlewicz]
VO-2506	Norton Bay	64.56916	159.54444	457	85APA28	Cretaceous		1.20	USGS [Pawlewicz]
VO-2507	Norton Bay	64.59388	159.10111	975	85APA40	Cretaceous		3.00	USGS [Pawlewicz]
VO-2508	Norton Bay	64.59944	159.80000	381	85APA35	Cretaceous		2.27	USGS [Pawlewicz]
VO-2509	Norton Bay	64.60500	160.69722	38	85SB100	Cretaceous		1.78	USGS [Pawlewicz]
VO-2510	Norton Bay	64.61055	159.82555	366	85APA36	Cretaceous		2.36	USGS [Pawlewicz]
VO-2511	Norton Bay	64.61944	159.67500	360	85APA37	Cretaceous		2.19	USGS [Pawlewicz]
VO-2512	Norton Bay	64.63555	159.67166	341	85APA8	Cretaceous		2.71	USGS [Pawlewicz]
VO-2513	Norton Bay	64.65166	159.32333	512	85APA38	Cretaceous		1.46	USGS [Pawlewicz]
VO-2514	Norton Bay	64.65194	159.45361	890	85APA7	Cretaceous		1.46	USGS [Pawlewicz]
VO-2515	Norton Bay	64.660	160.577		74F79	Cretaceous		1.15	Shell Oil Company
VO-2516	Norton Bay	64.68500	159.68527	311	85APA9	Cretaceous		2.75	USGS [Pawlewicz]
VO-2517	Norton Bay	64.692	159.535		74F159A	Cretaceous		1.77	Shell Oil Company
VO-2518	Norton Bay	64.692	160.243		74F164	Cretaceous		1.97	Shell Oil Company
VO-2519	Norton Bay	64.69361	160.53444	533	85SB116	Cretaceous		1.76	USGS [Pawlewicz]
VO-2520	Norton Bay	64.69500	159.05416	274	85APA73	Cretaceous		1.89	USGS [Pawlewicz]
VO-2521	Norton Bay	64.69583	160.22916	165	85APA13	Cretaceous		2.04	USGS [Pawlewicz]
VO-2522	Norton Bay	64.70916	160.09500	189	85APA12	Cretaceous		2.06	USGS [Pawlewicz]
VO-2523	Norton Bay	64.71000	159.23611	512	85APA39	Cretaceous		1.46	USGS [Pawlewicz]
VO-2524	Norton Bay	64.720	159.243		74F202A	Cretaceous		1.03	Shell Oil Company
VO-2525	Norton Bay	64.73333	159.78333	259	85APA10	Cretaceous		3.06	USGS [Pawlewicz]
VO-2526	Norton Bay	64.73555	159.92500	241	85APA11	Cretaceous		2.84	USGS [Pawlewicz]
VO-2527	Norton Bay	64.740	159.880		74F161A	Cretaceous		2.19	Shell Oil Company
VO-2528	Norton Bay	64.79750	160.50472	160	85APA91	Cretaceous		1.21	USGS [Pawlewicz]
VO-2529	Norton Bay	64.81250	160.32277	686	85SB125	Cretaceous		2.76	USGS [Pawlewicz]
VO-2530	Norton Bay	64.81972	160.31388	722	85SB129	Cretaceous		2.92	USGS [Pawlewicz]
VO-2531	Norton Bay	64.83416	160.32083	713	85SB130	Cretaceous		2.91	USGS [Pawlewicz]
VO-2532	Norton Bay	64.83722	160.33666	713	85SB132	Cretaceous		2.78	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2533	Norton Bay	64.90472	160.21111	183	85SB94	Cretaceous		1.19	USGS [Pawlewicz]
VO-2534	Nulato	64.650	158.280		74F245	Cretaceous		0.76	Shell Oil Company
VO-2535	Nulato	64.66000	158.53583	91	85APA69	Cretaceous		3.04	USGS [Pawlewicz]
VO-2536	Nulato	64.66416	156.53416	40	85SB201	Cretaceous		0.51	USGS [Pawlewicz]
VO-2537	Nulato	64.66527	156.52499	76	85SB202	Cretaceous		3.58	USGS [Pawlewicz]
VO-2538	Nulato	64.717	158.942		74F241A	Cretaceous		2.04	Shell Oil Company
VO-2539	Nulato	64.71722	158.94722	244	85APA72	Cretaceous		2.55	USGS [Pawlewicz]
VO-2540	Nulato	64.72916	158.82611	207	85APA71	Cretaceous		3.59	USGS [Pawlewicz]
VO-2541	Nulato	64.73611	158.62277	152	85APA70	Cretaceous		3.95	USGS [Pawlewicz]
VO-2542	Nulato	64.738	158.610		74F242A	Cretaceous		2.24	Shell Oil Company
VO-2543	Nulato	64.75000	158.02277	46	85SB213	Cretaceous		0.78	USGS [Pawlewicz]
VO-2544	Nulato	64.837	157.932		74F244A	Cretaceous		0.97	Shell Oil Company
VO-2545	Nulato	64.84583	157.92083	55	85SB206	Cretaceous		0.95	USGS [Pawlewicz]
VO-2546	Nulato	64.85222	157.91777	55	85SB205	Cretaceous		0.89	USGS [Pawlewicz]
VO-2547	Nulato	64.86000	157.91111	73	85SB204	Cretaceous		0.90	USGS [Pawlewicz]
VO-2548	Nulato	64.92583	158.71666	229	85APA55	Cretaceous		1.42	USGS [Pawlewicz]
VO-2549	Nunivak Island	60.207	167.063		R7	Cretaceous		4.16	Shell Oil Company
VO-2550	Nunivak Island	60.207	167.063		R15B	Cretaceous		2.36	Shell Oil Company
VO-2551	Nunivak Island	60.338	166.600		R4	Cretaceous		2.60	Shell Oil Company
VO-2552	Nunivak Island	60.350	166.567		R21	Cretaceous		2.38	Shell Oil Company
VO-2553	Nunivak Island	60.500	165.183		74C-200+3020	Cretaceous	non-marine	1.17	Shell Oil Company
VO-2554	Nunivak Island	60.500	165.183		74C-200+2483	Cretaceous	non-marine	1.20	Shell Oil Company
VO-2555	Nunivak Island	60.500	165.183		74C-200+2030	Cretaceous	non-marine	1.15	Shell Oil Company
VO-2556	Nunivak Island	60.500	165.183		74C-200+1543	Cretaceous	non-marine	1.16	Shell Oil Company
VO-2557	Nunivak Island	60.500	165.183		74C-200+1020	Cretaceous	non-marine	1.09	Shell Oil Company
VO-2558	Nunivak Island	60.500	165.183		74C-200+525	Cretaceous	non-marine	0.92	Shell Oil Company
VO-2559	Nunivak Island	60.500	165.183		74C-200+58	Cretaceous	non-marine	1.19	Shell Oil Company
VO-2560	Nunivak Island	60.500	165.183		74C-210+480	Cretaceous	non-marine	1.06	Shell Oil Company
VO-2561	Nunivak Island	60.500	165.183		74C-210+263	Cretaceous	non-marine	1.29	Shell Oil Company
VO-2562	Nunivak Island	60.500	165.183		74C-210+143	Cretaceous	non-marine	1.36	Shell Oil Company
VO-2563	Nunivak Island	60.500	165.183		74C-210+0	Cretaceous	non-marine	1.26	Shell Oil Company
VO-2564	Nunivak Island	60.508	165.170		74C-200+3453	Cretaceous	non-marine	1.00	Shell Oil Company
VO-2565	Nunivak Island	60.518	165.732		R78	Cretaceous		1.19	Shell Oil Company
VO-2566	Nunivak Island	60.518	165.732		R81	Cretaceous		1.51	Shell Oil Company
VO-2567	Nunivak Island	60.518	165.732		R87	Cretaceous		1.23	Shell Oil Company
VO-2568	Nunivak Island	60.518	165.732		R98	Cretaceous		1.09	Shell Oil Company
VO-2569	Nunivak Island	60.518	165.732		R102	Cretaceous		1.02	Shell Oil Company
VO-2570	Nunivak Island	60.518	165.732		R112	Cretaceous		0.72	Shell Oil Company
VO-2571	Nunivak Island	60.518	165.732		R126	Cretaceous		1.17	Shell Oil Company
VO-2572	Nunivak Island	60.542	165.005		74D-33	Cretaceous	non-marine	0.80	Shell Oil Company
VO-2573	Nunivak Island	60.542	165.005		74D-24A	Cretaceous	non-marine	0.97	Shell Oil Company
VO-2574	Nunivak Island	60.542	165.005		74D-24B	Cretaceous	non-marine	0.91	Shell Oil Company
VO-2575	Nunivak Island	60.542	165.005		74D-24C	Cretaceous	non-marine	0.96	Shell Oil Company
VO-2576	Nunivak Island	60.542	165.005		74D-25A	Cretaceous	non-marine	1.09	Shell Oil Company
VO-2577	Nunivak Island	60.542	165.005		74D-27A	Cretaceous	non-marine	0.94	Shell Oil Company
VO-2578	Philip Smith Mountains	68.03944	149.63194	914	DH90-B2a	Devonian	Hunt Fork Sh	4.65	USGS [Pawlewicz]
VO-2579	Philip Smith Mountains	68.06528	149.60389	975	DH90-B3a	Devonian	Hunt Fork Sh	5.00	USGS [Pawlewicz]
VO-2580	Philip Smith Mountains	68.09083	149.54583	1036	DH90-B4	Devonian	Hunt Fork Sh	4.77	USGS [Pawlewicz]
VO-2581	Philip Smith Mountains	68.11666	149.42916	2134	76ABE-B54B	Mississippian	Kayak Sh	4.64	PGS - Record # 50203950400000010
VO-2582	Philip Smith Mountains	68.11889	149.53417	1219	DH90-B5	Devonian	Hunt Fork Sh	5.32	USGS [Pawlewicz]
VO-2583	Philip Smith Mountains	68.12639	149.51250	1311	DH90-B6a	Devonian	Hunt Fork Sh	4.69	USGS [Pawlewicz]
VO-2584	Philip Smith Mountains	68.14444	147.35138	1524	76ARR-55-75	Mississippian	Kayak Sh	3.69	PGS - Record # 50203950700000010
VO-2585	Philip Smith Mountains	68.18694	149.36528	1524	DH90-B20	Devonian	Hunt Fork Sh	3.85	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

		North	West	Elev				Mean Ro	
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	(%)	Source of Data
VO-2586	Philip Smith Mountains	68.18972	149.34639	2042	DH90-B18a	Devonian	Hunt Fork Sh	3.85	USGS [Pawlewicz]
VO-2587	Philip Smith Mountains	68.18972	149.35306	1951	DH90-B19	Devonian	Hunt Fork Sh	4.22	USGS [Pawlewicz]
VO-2588	Philip Smith Mountains	68.19250	149.36667	1646	DH90-B24	Devonian	Hunt Fork Sh	3.99	USGS [Pawlewicz]
VO-2589	Philip Smith Mountains	68.19361	149.37056	1463	DH90-B25	Devonian	Hunt Fork Sh	3.75	USGS [Pawlewicz]
VO-2590	Philip Smith Mountains	68.19500	149.38111	1219	DH90-B27b	Devonian	Hunt Fork Sh	4.09	USGS [Pawlewicz]
VO-2591	Philip Smith Mountains	68.19611	149.38583	1097	DH90-B28	Devonian	Hunt Fork Sh	4.17	USGS [Pawlewicz]
VO-2592	Philip Smith Mountains	68.22083	147.55000	1646	76ADU 2@350-400	Devonian	Hunt Fork Sh	0.63	PGS - Record # 502039504100000010
VO-2593	Philip Smith Mountains	68.22083	147.55000	1646	76ADU 2@950-1000			4.96	PGS - Record # 502039504100000030
VO-2594	Philip Smith Mountains	68.22083	147.55000	1646	76ADU 2@2200-2250			1.09	PGS - Record # 502039504100000050
VO-2595	Philip Smith Mountains	68.25833	147.05833	1524	76ABE 425BY	Mississippian	Kayak Sh	4.51	PGS - Record # 502039505600000010
VO-2596	Philip Smith Mountains	68.25833	147.05833	1524	76ABE 425BX	Mississippian	Kayak Sh	3.78	PGS - Record # 502039505600000020
VO-2597	Philip Smith Mountains	68.35000	148.58333	2073	75ABE 68	Mississippian	Kayak Sh	1.20	PGS - Record # 502039503500000010
VO-2598	Philip Smith Mountains	68.37361	149.43778	1768	DH90-B13a2	L. Mississippian	Kayak Sh	2.15	USGS [Pawlewicz]
VO-2599	Philip Smith Mountains	68.39583	149.85833	1097	75ADT 110A	Cretaceous	Okpikruak Fm	2.69	PGS - Record # 502039501500000020
VO-2600	Philip Smith Mountains	68.39694	149.41361	1173	DH90-B12b	L. Mississippian	Kayak Sh	2.09	USGS [Pawlewicz]
VO-2601	Philip Smith Mountains	68.40028	149.28417	1341	DH90-B14a	Mississippian-Pennsylvanian	Kayak Sh	2.14	USGS [Pawlewicz]
VO-2602	Philip Smith Mountains	68.40833	148.02500	1341	75ARR 3.1A	Mississippian	Kayak Sh	1.65	PGS - Record # 502039503600000010
VO-2603	Philip Smith Mountains	68.40972	147.85833	122	75ARR 6	Mississippian	Kayak Sh	3.75	PGS - Record # 502039505800000010
VO-2604	Philip Smith Mountains	68.41666	149.47222	1219	76ABE 403+1300	Mississippian-Pennsylvanian	Lisburne Gp	1.61	PGS - Record # 502039505100000010
VO-2605	Philip Smith Mountains	68.41666	149.47222	1219	76ABE 403+1175	Mississippian-Pennsylvanian	Lisburne Gp	1.32	PGS - Record # 502039505100000020
VO-2606	Philip Smith Mountains	68.41666	149.47222	1219	76ABE 403+900	Mississippian-Pennsylvanian	Lisburne Gp	0.77	PGS - Record # 502039505100000030
VO-2607	Philip Smith Mountains	68.42222	149.59166	1341	76ABE 437A	Mississippian-Pennsylvanian	Lisburne Gp	1.37	PGS - Record # 502039504900000010
VO-2608	Philip Smith Mountains	68.43500	149.28889	1372	DH90-B15a	Mississippian-Pennsylvanian	Kayak Sh	1.90	USGS [Pawlewicz]
VO-2609	Philip Smith Mountains	68.43750	148.48750	1890	75ABE 67F	Devonian-Mississippian	Kanayut Cong	0.92	PGS - Record # 502039503700000010
VO-2610	Philip Smith Mountains	68.44000	149.33417	1006	DH90-B7a	Permian	Echooka Fm	1.86	USGS [Pawlewicz]
VO-2611	Philip Smith Mountains	68.44417	149.31917	1219	DH90-B8a	Permian	Echooka Fm	2.13	USGS [Pawlewicz]
VO-2612	Philip Smith Mountains	68.44444	149.32361	1158	DH90-B9a	Permian	Echooka Fm	1.74	USGS [Pawlewicz]
VO-2613	Philip Smith Mountains	68.44500	149.32750	1128	DH90-B9c	Permian	Echooka Fm	1.63	USGS [Pawlewicz]
VO-2614	Philip Smith Mountains	68.44528	149.32472	1219	DH90-B9b	Mississippian-Pennsylvanian	Lisburne Gp	1.41	USGS [Pawlewicz]
VO-2615	Philip Smith Mountains	68.45083	149.32000	1067	DH90-B9d	Permian	Echooka Fm	1.99	USGS [Pawlewicz]
VO-2616	Philip Smith Mountains	68.45194	149.32194	975	DH90-B9e	Permian	Echooka Fm	2.36	USGS [Pawlewicz]
VO-2617	Philip Smith Mountains	68.46249	149.68333	975	75ABE 4	Jurassic	Kingak Sh	2.03	PGS - Record # 502039502800000010
VO-2618	Philip Smith Mountains	68.46333	149.25333	1067	DG91-B1	Permian	Siksikpuk Fm	2.02	USGS [Pawlewicz]
VO-2619	Philip Smith Mountains	68.46528	149.25806	945	DG91-B2	Permian	Siksikpuk Fm	0.42	USGS [Pawlewicz]
VO-2620	Philip Smith Mountains	68.46694	149.26111	869	DG91-B3	Permian	Siksikpuk Fm	1.99	USGS [Pawlewicz]
VO-2621	Philip Smith Mountains	68.46833	149.26333	914	82TR 10			1.10	PGS - Record # 502039506700000010
VO-2622	Philip Smith Mountains	68.46917	149.26361	823	DG91-B4	Permian	Siksikpuk Fm	1.95	USGS [Pawlewicz]
VO-2623	Philip Smith Mountains	68.47083	149.24166	853	75ABE 19A	Permian	Siksikpuk Fm	2.07	PGS - Record # 502039503400000020
VO-2624	Philip Smith Mountains	68.47083	149.28333	792	75ARR 158B	Cretaceous	Okpikruak Fm	1.54	PGS - Record # 502039501700000010
VO-2625	Philip Smith Mountains	68.47111	149.28722	792	DH90-B17a	Permian	Echooka Fm	1.84	USGS [Pawlewicz]
VO-2626	Philip Smith Mountains	68.47389	149.26667	792	DH90-B16n	Cretaceous	Okpikruak Fm	1.22	USGS [Pawlewicz]
VO-2627	Philip Smith Mountains	68.47389	149.26667	792	DH90-B16m	Cretaceous	Okpikruak Fm	1.19	USGS [Pawlewicz]
VO-2628	Philip Smith Mountains	68.47472	149.26528	823	DH90-B16k	Cretaceous		1.12	USGS [Pawlewicz]
VO-2629	Philip Smith Mountains	68.47611	149.26861	823	DH90-B16j	Triassic-Jurassic	Otuk Fm	1.17	USGS [Pawlewicz]
VO-2630	Philip Smith Mountains	68.47639	149.27250	853	DH90-B16h	L. Cretaceous	Torok Fm	1.70	USGS [Pawlewicz]
VO-2631	Philip Smith Mountains	68.47750	149.27667	884	DH90-B16g	L. Cretaceous	Torok Fm	1.09	USGS [Pawlewicz]
VO-2632	Philip Smith Mountains	68.47889	149.27806	914	DH90-B16f	Triassic-Jurassic	Otuk Fm	0.96	USGS [Pawlewicz]
VO-2633	Philip Smith Mountains	68.47916	149.23333	792	75ARR 66	M. Triassic	Shublik Fm	0.54	PGS - Record # 502039503000000010
VO-2634	Philip Smith Mountains	68.48000	149.39417		89MR39C	Jurassic	Okpikruak Fm (?)	0.55	Reifenstuhl, 1990
VO-2635	Philip Smith Mountains	68.48000	149.41000	1067	DH91-B4	Cretaceous	Fortress Mountain Fm	1.86	USGS [Pawlewicz]
VO-2636	Philip Smith Mountains	68.48028	149.23389	762	90AMU46	Triassic-Jurassic	Otuk Fm	1.18	USGS [Pawlewicz]
VO-2637	Philip Smith Mountains	68.48028	149.23389	762	90AMU46-1	Jurassic	Blankenship Mbr	1.13	USGS [Pawlewicz]
VO-2638	Philip Smith Mountains	68.48167	149.28222	975	DH90-B16d	L. Cretaceous	Torok Fm	1.02	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2639	Philip Smith Mountains	68.48167	149.28222	975	DH90-B16e	L. Cretaceous	Torok Fm	0.99	USGS [Pawlewicz]
VO-2640	Philip Smith Mountains	68.48306	149.28417	1006	DH90-B16c	L. Cretaceous	Torok Fm	0.87	USGS [Pawlewicz]
VO-2641	Philip Smith Mountains	68.48333	149.20833	914	75ARR 199B	Jurassic	Kingak Sh	0.82	PGS - Record # 502039502700000020
VO-2642	Philip Smith Mountains	68.48333	149.23333	792	82TR 05G	Jurassic	Blankenship Mbr	1.17	PGS - Record # 502039506400000030
VO-2643	Philip Smith Mountains	68.48361	149.28528	1036	DH90-B16b	L. Cretaceous	Torok Fm	0.91	USGS [Pawlewicz]
VO-2644	Philip Smith Mountains	68.48583	149.22722	792	90AMU58	Cretaceous	Okpikruak Fm	0.93	USGS [Pawlewicz]
VO-2645	Philip Smith Mountains	68.48583	149.22722	792	90AMU58-1	L. Cretaceous	Fortress Mountain Fm	1.27	USGS [Pawlewicz]
VO-2646	Philip Smith Mountains	68.48722	149.41889	1036	MJ90-B7	Cretaceous	Fortress Mountain Fm	0.63	USGS [Pawlewicz]
VO-2647	Philip Smith Mountains	68.49028	149.40861	1189	MJ90-B5a	Cretaceous	Fortress Mountain Fm	0.67	USGS [Pawlewicz]
VO-2648	Philip Smith Mountains	68.49250	149.38556	1372	MJ90-B2	L. Cretaceous	Fortress Mountain Fm	0.50	USGS [Pawlewicz]
VO-2649	Philip Smith Mountains	68.49333	149.43417		88BG-1	Cretaceous	Fortress Mtn Fm.	0.71	Reifenstuhl, 1990
VO-2650	Philip Smith Mountains	68.50833	148.60000	1524	76ABE 433+2	Mississippian-Pennsylvanian	Lisburne Gp	1.56	PGS - Record # 502039504800000010
VO-2651	Philip Smith Mountains	68.51666	147.34305	1646	75ARR 173BX	Mississippian-Pennsylvanian	Lisburne Gp	2.60	PGS - Record # 502039504700000010
VO-2652	Philip Smith Mountains	68.52028	149.45500	1006	MJ91-B9a	Cretaceous	Fortress Mountain Fm	0.58	USGS [Pawlewicz]
VO-2653	Philip Smith Mountains	68.52638	148.70277	1463	76ABE 431	Mississippian-Pennsylvanian	Lisburne Gp	1.02	PGS - Record # 502039505000000010
VO-2654	Philip Smith Mountains	68.53250	149.28194	975	DH91-B23a	Cretaceous	Fortress Mountain Fm	0.80	USGS [Pawlewicz]
VO-2655	Philip Smith Mountains	68.53250	149.28194	975	DH91-B23b	Cretaceous	Fortress Mountain Fm	0.91	USGS [Pawlewicz]
VO-2656	Philip Smith Mountains	68.56250	148.90416	1036	75ADT 20	Permian	Siksikpuk Fm	2.01	PGS - Record # 502039503200000010
VO-2657	Philip Smith Mountains	68.56666	148.38750	1036	75ADT 7	Permian	Siksikpuk Fm	0.93	PGS - Record # 502039503100000010
VO-2658	Philip Smith Mountains	68.56944	147.96722	1219	75ARR 14B	Mississippian	Kayak Sh	3.36	PGS - Record # 502039505500000010
VO-2659	Philip Smith Mountains	68.57500	149.80416	792	75ADT 41A	Cretaceous	Okpikruak Fm	1.05	PGS - Record # 502039501200000010
VO-2660	Philip Smith Mountains	68.57916	148.90000	1097	75ADT 26B	Cretaceous	Okpikruak Fm	1.11	PGS - Record # 502039501000000010
VO-2661	Philip Smith Mountains	68.58639	148.90556	975	DH91-B19a	L. Cretaceous	Torok Fm	2.11	USGS [Pawlewicz]
VO-2662	Philip Smith Mountains	68.58639	148.90556	975	DH91-B19b	L. Cretaceous	Torok Fm	2.15	USGS [Pawlewicz]
VO-2663	Philip Smith Mountains	68.61250	148.10555	1097	75ARR 19A	Mississippian-Pennsylvanian	Lisburne Gp	4.72	PGS - Record # 502039504500000010
VO-2667	Philip Smith Mountains	68.63778	148.79278	716	UM91-B2	L. Cretaceous	Torok Fm	2.96	USGS [Pawlewicz]
VO-2668	Philip Smith Mountains	68.63944	148.87583	732	DH91-B20a	Cretaceous	Okpikruak Fm	2.59	USGS [Pawlewicz]
VO-2669	Philip Smith Mountains	68.63944	148.87583	732	DH91-B20b	Cretaceous	Okpikruak Fm	2.56	USGS [Pawlewicz]
VO-2670	Philip Smith Mountains	68.64083	148.79111	686	UM91-B3a	L. Cretaceous	Torok Fm	2.89	USGS [Pawlewicz]
VO-2671	Philip Smith Mountains	68.64166	149.08333	914	75ADT 17F	Cretaceous	Fortress Mountain Fm	1.02	PGS - Record # 502039500600000010
VO-2672	Philip Smith Mountains	68.64167	148.53750	762	UM91-B7a	Cretaceous	Okpikruak Fm	4.74	USGS [Pawlewicz]
VO-2673	Philip Smith Mountains	68.64556	148.53972	762	UM91-B8	M. Triassic	Shublik Fm	5.33	USGS [Pawlewicz]
VO-2674	Philip Smith Mountains	68.64556	148.54444	823	UM91-B9a	Cretaceous	Okpikruak Fm	5.00	USGS [Pawlewicz]
VO-2675	Philip Smith Mountains	68.64583	148.54583	914	75ADT 10	M. Triassic	Shublik Fm	0.89	PGS - Record # 502039502900000010
VO-2676	Philip Smith Mountains	68.64583	148.78722	686	UM91-B5	L. Cretaceous	Torok Fm	2.91	USGS [Pawlewicz]
VO-2677	Philip Smith Mountains	68.64750	148.79111	686	UM91-B6d	L. Cretaceous	Torok Fm	2.91	USGS [Pawlewicz]
VO-2678	Philip Smith Mountains	68.66028	148.59528	671	UM91-B10a	L. Cretaceous	Torok Fm	4.88	USGS [Pawlewicz]
VO-2679	Philip Smith Mountains	68.66028	148.59528	671	UM91-B10c	L. Cretaceous	Torok Fm	4.90	USGS [Pawlewicz]
VO-2680	Philip Smith Mountains	68.66250	148.59166	610	75ARR 23	Cretaceous	Okpikruak Fm	0.95	PGS - Record # 502039501600000010
VO-2681	Philip Smith Mountains	68.66278	148.89333	1097	DH91-B21a	L. Cretaceous	Torok Fm	2.54	USGS [Pawlewicz]
VO-2682	Philip Smith Mountains	68.66278	148.89333	1097	DH91-B21b	L. Cretaceous	Torok Fm	2.76	USGS [Pawlewicz]
VO-2683	Philip Smith Mountains	68.67500	148.62500	792	82AMU 28	Cretaceous	Fortress Mountain Fm	4.31	PGS - Record # 502039506100000020
VO-2684	Philip Smith Mountains	68.67500	148.62500	792	82AMU 27	Cretaceous	Fortress Mountain Fm	3.43	PGS - Record # 502039506100000030
VO-2685	Philip Smith Mountains	68.70416	148.68333	1219	75ADT 2BF	Cretaceous	Fortress Mountain Fm	1.02	PGS - Record # 502039500500000010
VO-2686	Philip Smith Mountains	68.71666	148.68750	792	75ADT 3B	Cretaceous	Okpikruak Fm	1.11	PGS - Record # 502039500700000010
VO-2687	Philip Smith Mountains	68.72667	149.02694	945	MJ90-B11f	Cretaceous	Chandler Fm	0.70	USGS [Pawlewicz]
VO-2696	Philip Smith Mountains	68.72750	149.02111		78ACH 3 [Marmot syncline]			0.74	PGS - Record # 502039500100000170
VO-2688	Philip Smith Mountains	68.72778	149.02972		89POS63C	Cretaceous	Chandler Fm	0.72	Reifenstuhl, 1990
VO-2689	Philip Smith Mountains	68.72778	149.02194	732	MJ90-B11c	Cretaceous	Chandler Fm	0.74	USGS [Pawlewicz]
VO-2695	Philip Smith Mountains	68.73278	149.02056		78ACH 9 [Marmot syncline]			0.71	PGS - Record # 502039500100000130
VO-2694	Philip Smith Mountains	68.73389	149.02167		78ACH 13 [Marmot syncline]			0.66	PGS - Record # 502039500100000110
VO-2693	Philip Smith Mountains	68.73444	149.02556		78ACH 27 [Marmot syncline]			0.52	PGS - Record # 502039500100000080
VO-2690	Philip Smith Mountains	68.73750	149.00833	640	75ADT 1	Cretaceous	Torok Fm	0.66	PGS - Record # 502039500200000010

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2692	Philip Smith Mountains	68.74167	149.04889		78ACH 47 [Marmot syncline]			0.55	PGS - Record # 502039500100000030
VO-2691	Philip Smith Mountains	68.74278	149.06389		78ACH 55 [Marmot syncline]			0.47	PGS - Record # 502039500100000020
VO-2697	Philip Smith Mountains	68.77083	148.47500	792	75ADT 42A	Cretaceous	Okpikruak Fm	2.62	PGS - Record # 502039501300000010
VO-2698	Philip Smith Mountains	68.78750	148.32083	732	75ADT 22A	Permian	Siksikpuk Fm	0.48	PGS - Record # 502039503300000010
VO-2699	Philip Smith Mountains	68.79583	148.37083	579	75ARR 48B	Jurassic	Kingak Sh	4.22	PGS - Record # 502039502300000010
VO-2700	Philip Smith Mountains	68.80000	148.35416	732	75ADT 24	Jurassic	Kingak Sh	0.89	PGS - Record # 502039502100000010
VO-2701	Philip Smith Mountains	68.84139	148.39722	701	MJ91-B10	Cretaceous	Fortress Mountain Fm	4.34	USGS [Pawlewicz]
VO-2702	Philip Smith Mountains	68.84166	148.76666	610	75ADT 29A	Cretaceous	Tuktu Fm	0.73	PGS - Record # 502039503900000010
VO-2703	Philip Smith Mountains	68.84472	148.39639	671	MJ91-B11	Cretaceous	Fortress Mountain Fm	1.41	USGS [Pawlewicz]
VO-2714	Philip Smith Mountains	68.85833	148.37500	488	75ADT 52	Jurassic	Kingak Sh	0.39	PGS - Record # 502039503800000010
VO-2715	Philip Smith Mountains	68.91527	147.11666	732	75ARR 85A	Mississippian-Pennsylvanian	Lisburne Gp	2.02	PGS - Record # 502039504400000010
VO-2716	Philip Smith Mountains	68.92916	148.22083	488	75ARR 56	Jurassic	Kingak Sh	1.96	PGS - Record # 502039502500000010
VO-2717	Philip Smith Mountains	68.92916	148.32916	488	75ADT 45	Cretaceous	Torok Fm	2.42	PGS - Record # 502039500300000010
VO-2718	Philip Smith Mountains	68.94583	148.25000	488	75ARR 53	Cretaceous	Torok Fm	2.61	PGS - Record # 502039500400000010
VO-2719	Point Hope	68.13333	165.95000	0	80MY 13	M. Triassic	Shublik Fm	1.41	PGS - Record # 502059500200000010
VO-2720	Point Hope	68.56500	166.23333	0	82ATR83B	Mississippian-Pennsylvanian		2.25	PGS - Record # 502059500300000010
VO-2724	Point Hope	68.85944	165.32806	0	77AAH114 [Corwin Bluff]	Cretaceous	Corwin Fm	0.50	PGS - Record # 502059500100000040
VO-2723	Point Hope	68.86444	165.24389	0	77AAH115 [Corwin Bluff]	Cretaceous	Corwin Fm	0.57	PGS - Record # 502059500100000030
VO-2722	Point Hope	68.86556	165.23056	0	77AAH116 [Corwin Bluff]	Cretaceous	Corwin Fm	0.54	PGS - Record # 502059500100000020
VO-2738	Point Hope	68.86667	165.16806		SS70-W82	Cretaceous	Nanushuk Gp	0.57	Rao and Smith, 1983
VO-2739	Point Hope	68.86778	165.13694		SS70-W74	Cretaceous	Nanushuk Gp	0.64	Rao and Smith, 1983
VO-2740	Point Hope	68.86778	165.16194		SS70-W83	Cretaceous	Nanushuk Gp	0.55	Rao and Smith, 1983
VO-2741	Point Hope	68.87111	165.12750		SS70-W80	Cretaceous	Nanushuk Gp	0.61	Rao and Smith, 1983
VO-2721	Point Hope	68.87194	165.13000	0	77AAH117 [Corwin Bluff]	Cretaceous	Corwin Fm	0.58	PGS - Record # 502059500100000010
VO-2742	Point Hope	68.87389	165.06861		SS70-W88	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-2743	Point Hope	68.87444	165.11528		SS70-W73	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-2735	Point Hope	68.87556	165.10250	0	77AAH 75 [Corwin Bluff]	Cretaceous	Corwin Fm	0.58	PGS - Record # 502059500100000220
VO-2734	Point Hope	68.87611	165.09417	0	77AAH 76 [Corwin Bluff]	Cretaceous	Corwin Fm	0.72	PGS - Record # 502059500100000210
VO-2725	Point Hope	68.87694	165.07444	0	77AAH113 [Corwin Bluff]	Cretaceous	Corwin Fm	0.60	PGS - Record # 502059500100000050
VO-2726	Point Hope	68.87833	165.05083	0	77AAH110 [Corwin Bluff]	Cretaceous	Corwin Fm	0.56	PGS - Record # 502059500100000080
VO-2727	Point Hope	68.87944	165.03583	0	77AAH108 [Corwin Bluff]	Cretaceous	Corwin Fm	0.60	PGS - Record # 502059500100000100
VO-2728	Point Hope	68.88000	165.02778	0	77AAH107 [Corwin Bluff]	Cretaceous	Corwin Fm	0.66	PGS - Record # 502059500100000110
VO-2729	Point Hope	68.88083	165.01750	0	77AAH106 [Corwin Bluff]	Cretaceous	Corwin Fm	0.62	PGS - Record # 502059500100000120
VO-2730	Point Hope	68.88167	165.00333	0	77AAH104 [Corwin Bluff]	Cretaceous	Corwin Fm	0.64	PGS - Record # 502059500100000140
VO-2731	Point Hope	68.88194	164.99556	0	77AAH103 [Corwin Bluff]	Cretaceous	Corwin Fm	0.67	PGS - Record # 502059500100000150
VO-2732	Point Hope	68.88222	164.98889	0	77AAH102 [Corwin Bluff]	Cretaceous	Corwin Fm	0.67	PGS - Record # 502059500100000160
VO-2733	Point Hope	68.88389	164.84250	0	77AAH100 [Corwin Bluff]	Cretaceous	Corwin Fm	0.67	PGS - Record # 502059500100000180
VO-2736	Point Hope	68.88528	164.95778	0	77AAH 47 [Corwin Bluff]	Cretaceous	Corwin Fm	0.74	PGS - Record # 502059500100000250
VO-2737	Point Hope	68.88722	164.93972	0	77AAH 43 [Corwin Bluff]	Cretaceous	Corwin Fm	0.71	PGS - Record # 502059500100000290
VO-2744	Point Hope	68.88888	164.92222	0	77AAH 40 [Corwin Bluff]	Cretaceous	Kukpowruk Fm	0.68	PGS - Record # 502059500100000310
VO-1221	Point Lay	69.00194	162.81444		77ACH48 [Tupikchk syncline]			0.76	PGS - Record # 500739500100000120
VO-2745	Point Lay	69.00333	163.75306		UA-44	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2746	Point Lay	69.00333	163.75306		UA-45	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2747	Point Lay	69.00500	163.83972		UA-36	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2748	Point Lay	69.00500	163.84361		UA-32	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-2749	Point Lay	69.00500	163.84361		UA-34	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-1222	Point Lay	69.00556	162.84389		77ACH45 [Tupikchk syncline]			0.81	PGS - Record # 500739500100000140
VO-2750	Point Lay	69.00833	163.79444		UA-39	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2751	Point Lay	69.00861	163.78333		UA-40	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2752	Point Lay	69.00861	163.78333		UA-41	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-1223	Point Lay	69.01083	162.84694		77ACH40 [Tupikchk syncline]			0.68	PGS - Record # 500739500100000170
VO-2753	Point Lay	69.01194	163.84139		UA-4	Cretaceous	Corwin Fm	0.71	Rao, 1980
VO-2754	Point Lay	69.01194	163.84139		UA-5	Cretaceous	Corwin Fm	0.70	Rao, 1980

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2755	Point Lay	69.01194	163.84139		UA-6	Cretaceous	Corwin Fm	0.67	Rao, 1980
VO-2756	Point Lay	69.01194	163.84139		UA-7	Cretaceous	Corwin Fm	0.68	Rao, 1980
VO-2757	Point Lay	69.01194	163.84139		UA-8	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-2758	Point Lay	69.01194	163.84139		UA-9	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-2759	Point Lay	69.01194	163.84139		UA-10	Cretaceous	Corwin Fm	0.71	Rao, 1980
VO-2760	Point Lay	69.01194	163.84139		UA-12	Cretaceous	Corwin Fm	0.70	Rao, 1980
VO-2761	Point Lay	69.01194	163.84139		UA-14	Cretaceous	Corwin Fm	0.69	Rao, 1980
VO-1224	Point Lay	69.01611	162.90806		77ACH36 [Tupikchk syncline]			0.68	PGS - Record # 500739500100000190
VO-2762	Point Lay	69.01806	163.83833		DH72-11	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-2763	Point Lay	69.01917	163.87917		AH73-34	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-2764	Point Lay	69.02111	163.84139		UA-1	Cretaceous	Corwin Fm	0.73	Rao, 1980
VO-2765	Point Lay	69.02111	163.84139		UA-2	Cretaceous	Corwin Fm	0.72	Rao, 1980
VO-2766	Point Lay	69.02111	163.84139		UA-3	Cretaceous	Corwin Fm	0.70	Rao, 1980
VO-2767	Point Lay	69.02167	163.83972		UA-37	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2768	Point Lay	69.02167	163.83972		UA-38	Cretaceous	Corwin Fm	0.74	Rao, 1980
VO-2769	Point Lay	69.02361	163.87917		AH73-36	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-2770	Point Lay	69.02416	162.91666	183	77ACH33 [Tupikchk syncline]	Cretaceous	Torok Fm	0.86	PGS - Record # 500739500100000200
VO-2771	Point Lay	69.07972	162.55667		SS67-1	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-2772	Point Lay	69.07972	162.55667		SS67-2	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-2773	Point Lay	69.07972	162.55667		SS67-3	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-2774	Point Lay	69.08306	162.55028		SS67-4	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-2775	Point Lay	69.08306	162.56917		SS67-5	Cretaceous	Nanushuk Gp	0.82	Rao and Smith, 1983
VO-2776	Point Lay	69.08306	162.56917		SS67-6	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-2784	Point Lay	69.10361	162.76889	122	77AAH 119 [Kukpowruk syncline]	Cretaceous	Kukpowruk Fm	0.87	PGS - Record # 502079500200000030
VO-2777	Point Lay	69.10556	163.39306		AH73-1	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-2778	Point Lay	69.10556	163.39306		AH73-1A	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-2779	Point Lay	69.10556	163.39306		AH73-1B	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-2780	Point Lay	69.10556	163.39306		AH73-1C	Cretaceous	Nanushuk Gp	0.66	Rao and Smith, 1983
VO-2781	Point Lay	69.10556	163.39306		AH73-1D	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-2782	Point Lay	69.10667	162.55972		SS67-8	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-2783	Point Lay	69.10722	162.77000	122	77AAH 124 [Kukpowruk syncline]	Cretaceous	Kukpowruk Fm	0.87	PGS - Record # 502079500200000010
VO-2785	Point Lay	69.11667	162.57250		SS67-9	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-2786	Point Lay	69.12333	162.58194		SS67-10	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-2787	Point Lay	69.12556	162.62583		SS67-11	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-2788	Point Lay	69.13028	163.38361		AH73-2	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-2789	Point Lay	69.13361	162.63556		SS67-12	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-2790	Point Lay	69.13806	163.38333		AH73-3	Cretaceous	Nanushuk Gp	0.64	Rao and Smith, 1983
VO-2791	Point Lay	69.14806	163.12306		AH73-23A	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-2792	Point Lay	69.14806	163.12306		AH73-23B	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-2793	Point Lay	69.15806	163.15444		AH73-8	Cretaceous	Nanushuk Gp	0.62	Rao and Smith, 1983
VO-2794	Point Lay	69.16194	163.18306		AH73-25A	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-2795	Point Lay	69.16194	163.18306		AH73-25B	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-2796	Point Lay	69.16194	163.18306		AH73-25C	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-2797	Point Lay	69.16722	163.16417		AH73-24	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-2798	Point Lay	69.16833	163.19889		AH73-5	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-2799	Point Lay	69.17056	163.22722		AH73-6	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-2800	Point Lay	69.17500	163.28417		AH73-27	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-2801	Point Lay	69.17611	163.12944		AH73-10A	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-2802	Point Lay	69.17611	163.12944		AH73-10B	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-2803	Point Lay	69.17611	163.12944		AH73-10C	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-2804	Point Lay	69.17611	163.19556		AH73-4	Cretaceous	Nanushuk Gp	0.61	Rao and Smith, 1983
VO-2805	Point Lay	69.23972	162.66611	152	77AAH144 [Archimedes anticline]	Cretaceous	Corwin Fm	0.80	PGS - Record # 502079500300000010
VO-2806	Point Lay	69.24194	162.67000		77AAH141 [Archimedes anticline]			0.78	PGS - Record # 502079500300000030

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2807	Point Lay	69.24278	162.67389		77AAH138 [Archimedes anticline]			0.81	PGS - Record # 502079500300000040
VO-2808	Point Lay	69.24556	162.68000		77AAH137 [Archimedes anticline]			0.86	PGS - Record # 502079500300000050
VO-2809	Point Lay	69.24639	162.68111		77AAH134 [Archimedes anticline]			0.89	PGS - Record # 502079500300000070
VO-2810	Point Lay	69.24778	162.68611		77AAH130 [Archimedes anticline]			0.94	PGS - Record # 502079500300000080
VO-2811	Point Lay	69.24861	162.68611	91	77AAH128 [Archimedes anticline]	Cretaceous	Kukpowruk Fm	0.92	PGS - Record # 502079500300000090
VO-2812	Point Lay	69.25167	162.70861	61	77AAH146 [Kukpowruk syncline]	Cretaceous	Torok Fm	0.67	PGS - Record # 502079500400000190
VO-2818	Point Lay	69.25167	162.75222		77AAH159 [Kukpowruk syncline]			0.72	PGS - Record # 502079500400000100
VO-2821	Point Lay	69.25194	162.70972		77AAH148 [Kukpowruk syncline]			0.67	PGS - Record # 502079500400000180
VO-2820	Point Lay	69.25250	162.71278		77AAH150 [Kukpowruk syncline]			0.68	PGS - Record # 502079500400000160
VO-2817	Point Lay	69.25333	162.75639		77AAH160 [Kukpowruk syncline]			0.76	PGS - Record # 502079500400000080
VO-2819	Point Lay	69.25778	162.72778		77AAH155 [Kukpowruk syncline]			0.75	PGS - Record # 502079500400000120
VO-2816	Point Lay	69.25806	162.76472		77AAH169 [Kukpowruk syncline]			0.84	PGS - Record # 502079500400000060
VO-2815	Point Lay	69.25944	162.77333		77AAH172 [Kukpowruk syncline]			0.69	PGS - Record # 502079500400000050
VO-2814	Point Lay	69.25944	162.77611		77AAH173 [Kukpowruk syncline]			0.73	PGS - Record # 502079500400000040
VO-2813	Point Lay	69.26111	162.78361		77AAH176 [Kukpowruk syncline]			0.76	PGS - Record # 502079500400000020
VO-2822	Point Lay	69.36111	162.08889		605SP474	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-2823	Point Lay	69.39139	162.65139	30	77AAH 71A [Snowbank anticline]	Cretaceous	Corwin Fm	0.63	PGS - Record # 502079500500000040
VO-2826	Point Lay	69.39222	162.65417	30	77AAH 72 [Snowbank anticline]	Cretaceous	Corwin Fm	0.63	PGS - Record # 502079500500000030
VO-2825	Point Lay	69.39333	162.65583	30	77AAH 76 [Snowbank anticline]	Cretaceous	Corwin Fm	0.64	PGS - Record # 502079500500000020
VO-2824	Point Lay	69.39556	162.65889	30	77AAH 80 [Snowbank anticline]	Cretaceous	Corwin Fm	0.64	PGS - Record # 502079500500000010
VO-2827	Point Lay	69.41278	162.68278	30	77ACH 82 [Barabara syncline]	Cretaceous	Kukpowruk Fm	0.79	PGS - Record # 502079500600000200
VO-2834	Point Lay	69.41333	162.68444		77ACH 88 [Barabara syncline]			0.77	PGS - Record # 502079500600000170
VO-2833	Point Lay	69.41361	162.68667		77ACH 94 [Barabara syncline]			0.63	PGS - Record # 502079500600000150
VO-2832	Point Lay	69.41444	162.68889		77ACH 99 [Barabara syncline]			0.70	PGS - Record # 502079500600000140
VO-2831	Point Lay	69.41500	162.69028		77ACH 103 [Barabara syncline]			0.75	PGS - Record # 502079500600000120
VO-2830	Point Lay	69.41611	162.69194		77ACH 109 [Barabara syncline]			0.72	PGS - Record # 502079500600000090
VO-2829	Point Lay	69.41694	162.69278		77ACH 112 [Barabara syncline]			0.72	PGS - Record # 502079500600000070
VO-2828	Point Lay	69.41833	162.69389		77ACH 119 [Barabara syncline]			0.70	PGS - Record # 502079500600000050
VO-2835	Point Lay	69.51555	162.76916	30	77AAH 183	Cretaceous	Corwin Fm	0.53	PGS - Record # 502079500800000010
VO-2836	Port Moller	55.360	160.646		0041303	Paleogene		0.52	Chevron
VO-2837	Port Moller	55.360	160.646		0041303	Paleogene		0.33	Chevron
VO-2838	Port Moller	55.376	161.411		73F-8	Oligocene	Stepovak	0.56	Shell Oil Company
VO-2839	Port Moller	55.377	161.433		84J-17J	Eocene	Tolstoi	0.73	Shell Oil Company
VO-2840	Port Moller	55.389	160.650		73F10	Eocene-Oligocene	Stepovak	0.28	Shell Oil Company
VO-2841	Port Moller	55.389	160.650		73F20	Eocene-Oligocene	Stepovak	0.28	Shell Oil Company
VO-2842	Port Moller	55.389	160.650		73F40	Eocene-Oligocene	Stepovak	0.28	Shell Oil Company
VO-2843	Port Moller	55.389	161.381		73F-9	Oligocene	Stepovak	1.39	Shell Oil Company
VO-2844	Port Moller	55.390	161.330		73F-18	Oligocene	Stepovak	0.79	Shell Oil Company
VO-2845	Port Moller	55.390	161.330		73F-19	Oligocene	Stepovak	2.57	Shell Oil Company
VO-2846	Port Moller	55.390	161.354		73F-16	Oligocene	Stepovak	0.60	Shell Oil Company
VO-2847	Port Moller	55.390	161.354		73F-17A	Oligocene	Stepovak	0.50	Shell Oil Company
VO-2848	Port Moller	55.390	161.354		73F-17B	Oligocene	Stepovak	0.60	Shell Oil Company
VO-2849	Port Moller	55.390	161.354		84J-10A	Eocene	Tolstoi	0.84	Shell Oil Company
VO-2850	Port Moller	55.390	161.354		84J-10B	Eocene	Tolstoi	0.84	Shell Oil Company
VO-2851	Port Moller	55.390	161.354		84J-10C	Eocene	Tolstoi	0.84	Shell Oil Company
VO-2852	Port Moller	55.390	161.354		84J-10D	Eocene	Tolstoi	0.85	Shell Oil Company
VO-2853	Port Moller	55.390	161.354		84J-11	Eocene	Tolstoi	0.99	Shell Oil Company
VO-2854	Port Moller	55.390	161.368		84J-17A	Eocene or Oligocene	Tolstoi or Stepovak	0.78	Shell Oil Company
VO-2855	Port Moller	55.390	161.368		84J-17B	Eocene or Oligocene	Tolstoi or Stepovak	0.71	Shell Oil Company
VO-2856	Port Moller	55.390	161.368		84J-17C	Eocene or Oligocene	Tolstoi or Stepovak	0.62	Shell Oil Company
VO-2857	Port Moller	55.390	161.368		84J-17D	Eocene or Oligocene	Tolstoi or Stepovak	0.70	Shell Oil Company
VO-2858	Port Moller	55.390	161.368		84J-17E	Eocene or Oligocene	Tolstoi or Stepovak	0.69	Shell Oil Company
VO-2859	Port Moller	55.390	161.368		84J-17F	Eocene or Oligocene	Tolstoi or Stepovak	0.73	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2860	Port Moller	55.390	161.368		84J-17G	Eocene or Oligocene	Tolstoi or Stepovak	0.59	Shell Oil Company
VO-2861	Port Moller	55.390	161.368		84J-17H	Eocene or Oligocene	Tolstoi or Stepovak	1.72	Shell Oil Company
VO-2862	Port Moller	55.390	161.368		84J-17I	Eocene or Oligocene	Tolstoi or Stepovak	0.97	Shell Oil Company
VO-2863	Port Moller	55.390	161.381		84J-17D	Eocene	Tolstoi	0.79	Shell Oil Company
VO-2864	Port Moller	55.390	161.381		84J-17E	Eocene	Tolstoi	0.82	Shell Oil Company
VO-2865	Port Moller	55.390	161.381		84J-17F	Eocene	Tolstoi	0.79	Shell Oil Company
VO-2866	Port Moller	55.405	161.488		84J-5F	Eocene	Tolstoi	0.59	Shell Oil Company
VO-2867	Port Moller	55.405	161.488		84J-5E	Eocene	Tolstoi	0.59	Shell Oil Company
VO-2868	Port Moller	55.405	161.488		84J-5D	Eocene	Tolstoi	0.70	Shell Oil Company
VO-2869	Port Moller	55.405	161.488		84J-5C	Eocene	Tolstoi	0.68	Shell Oil Company
VO-2870	Port Moller	55.405	161.488		84J-5B	Eocene	Tolstoi	0.62	Shell Oil Company
VO-2871	Port Moller	55.405	161.488		84J-5A	Eocene	Tolstoi	0.71	Shell Oil Company
VO-2872	Port Moller	55.417	161.482		84J-2B	Eocene	Tolstoi	0.74	Shell Oil Company
VO-2873	Port Moller	55.417	161.482		84J-2C	Eocene	Tolstoi	0.80	Shell Oil Company
VO-2874	Port Moller	55.442	160.993		73F-2	Oligocene	Stepovak	0.23	Shell Oil Company
VO-2875	Port Moller	55.461	161.107		0041304			0.98	Chevron
VO-2876	Port Moller	55.475	160.975		3202+225	Oligocene	Stepovak	0.32	Shell Oil Company
VO-2877	Port Moller	55.475	160.975		3203+110	Oligocene	Stepovak	0.37	Shell Oil Company
VO-2878	Port Moller	55.475	160.975		3204+218	Oligocene	Stepovak	0.35	Shell Oil Company
VO-2879	Port Moller	55.475	160.975		3205+355	Oligocene	Stepovak	0.32	Shell Oil Company
VO-2880	Port Moller	55.475	160.975		3205+580	Oligocene	Stepovak	0.31	Shell Oil Company
VO-2881	Port Moller	55.475	160.975		3202+225	Oligocene	Stepovak	0.36	Shell Oil Company
VO-2882	Port Moller	55.475	160.975		3205+580	Oligocene	Stepovak	0.32	Shell Oil Company
VO-2883	Port Moller	55.475	160.975		76F2	Oligocene	Stepovak	0.30	Shell Oil Company
VO-2884	Port Moller	55.475	160.975		3202+225 (2)	Oligocene	Stepovak	0.36	Shell Oil Company
VO-2885	Port Moller	55.475	160.975		3205+580	Oligocene	Stepovak	0.32	Shell Oil Company
VO-2886	Port Moller	55.475	160.975		76F-2	Oligocene	Stepovak	0.30	Shell Oil Company
VO-2887	Port Moller	55.490	160.975		84J-18A	Eocene	Stepovak	0.43	Shell Oil Company
VO-2888	Port Moller	55.490	160.975		84J-18B	Eocene	Stepovak	0.37	Shell Oil Company
VO-2889	Port Moller	55.490	161.474		75H-12	Paleocene-M. Eocene	Tolstoi	0.61	Shell Oil Company
VO-2890	Port Moller	55.490	161.474		75H-12	Paleocene-M. Miocene	Tolstoi	0.61	Shell Oil Company
VO-2891	Port Moller	55.490	161.476		84J-38	Eocene	Tolstoi	0.61	Shell Oil Company
VO-2892	Port Moller	55.504	161.154		0041307	Eocene	Tolstoi	1.81	Chevron
VO-2893	Port Moller	55.504	161.154		0041307	Eocene	Tolstoi	1.72	Chevron
VO-2894	Port Moller	55.504	161.454		84J-6A	Eocene	Tolstoi	0.84	Shell Oil Company
VO-2895	Port Moller	55.504	161.454		84J-6B1	Eocene	Tolstoi	0.87	Shell Oil Company
VO-2896	Port Moller	55.504	161.454		84J-6B2	Eocene	Tolstoi	0.87	Shell Oil Company
VO-2897	Port Moller	55.504	161.454		84J-6D	Eocene	Tolstoi	0.97	Shell Oil Company
VO-2898	Port Moller	55.504	161.454		84J-6F	Eocene	Tolstoi	0.86	Shell Oil Company
VO-2899	Port Moller	55.504	161.454		84J-6G	Eocene	Tolstoi	0.90	Shell Oil Company
VO-2900	Port Moller	55.504	161.454		84J-6J	Eocene	Tolstoi	1.04	Shell Oil Company
VO-2901	Port Moller	55.516	160.795		75H-61	Oligocene	Stepovak	0.23	Shell Oil Company
VO-2902	Port Moller	55.520	161.431		81R-27		Tet	1.95	Shell Oil Company
VO-2903	Port Moller	55.520	161.431		81R-28		Tet	1.93	Shell Oil Company
VO-2904	Port Moller	55.520	161.431		81R-31		Tet	2.50	Shell Oil Company
VO-2905	Port Moller	55.520	161.431		81R-32A		Tet	0.77	Shell Oil Company
VO-2906	Port Moller	55.577	160.953		84J-40	U. Cretaceous	Hoodoo	2.20	Shell Oil Company
VO-2907	Port Moller	55.578	160.949		73F-5-520	U. Cretaceous	Hoodoo	2.21	Shell Oil Company
VO-2908	Port Moller	55.578	160.949		73F-5-520	U. Cretaceous	Hoodoo	2.21	Shell Oil Company
VO-2909	Port Moller	55.602	161.611		84J-16A	Oligocene-Eocene	Stepovak	1.03	Shell Oil Company
VO-2910	Port Moller	55.602	161.611		84J-16B	Oligocene-Eocene	Stepovak	0.37	Shell Oil Company
VO-2911	Port Moller	55.603	161.611		81R-113	L. Paleocene-Eocene	Tos or Tet?	0.43	Shell Oil Company
VO-2912	Port Moller	55.618	159.295		84J-41B	Eocene	Tolstoi	2.23	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2913	Port Moller	55.620	160.645		85S-24A	Eocene	Tolstoi	1.45	Shell Oil Company
VO-2914	Port Moller	55.620	160.645		85S-24B	Eocene	Tolstoi	1.49	Shell Oil Company
VO-2915	Port Moller	55.621	160.595		81R-74A		Tos	1.21	Shell Oil Company
VO-2916	Port Moller	55.621	160.595		81R-74B		Tos	1.11	Shell Oil Company
VO-2917	Port Moller	55.621	160.619		81R-73		Tos	1.51	Shell Oil Company
VO-2918	Port Moller	55.621	161.637		75H-2	Oligocene	Stepovak	0.44	Shell Oil Company
VO-2919	Port Moller	55.648	160.593		85S-23A	Eocene	Tolstoi	1.40	Shell Oil Company
VO-2920	Port Moller	55.648	160.593		85S-23B	Eocene	Tolstoi	1.32	Shell Oil Company
VO-2921	Port Moller	55.648	160.593		85S-23C (KC)	Eocene	Tolstoi	1.38	Shell Oil Company
VO-2922	Port Moller	55.648	160.593		85S-23C (RM)	Eocene	Tolstoi	1.31	Shell Oil Company
VO-2923	Port Moller	55.648	160.593		85S-23D	Eocene	Tolstoi	1.35	Shell Oil Company
VO-2924	Port Moller	55.649	161.979		0043365	L. Eocene		0.39	Chevron
VO-2925	Port Moller	55.650	160.261		81R-109		Tos	0.70	Shell Oil Company
VO-2926	Port Moller	55.650	160.263		73F-53+0	Oligocene	Stepovak	0.76	Shell Oil Company
VO-2927	Port Moller	55.650	160.263		73F-53+250	Oligocene	Stepovak	0.83	Shell Oil Company
VO-2928	Port Moller	55.663	161.973		0043361	Eocene		0.55	Chevron
VO-2929	Port Moller	55.665	160.209		1402+15	Eocene-Oligocene	Stepovak	1.01	Shell Oil Company
VO-2930	Port Moller	55.691	161.432		84J-7A	Eocene	Tolstoi	1.29	Shell Oil Company
VO-2931	Port Moller	55.691	161.432		84J-7B	Eocene	Tolstoi	1.25	Shell Oil Company
VO-2932	Port Moller	55.691	161.432		84J-7C	Eocene	Tolstoi	1.32	Shell Oil Company
VO-2933	Port Moller	55.693	160.876		84J-12B	Tertiary		0.55	Shell Oil Company
VO-2934	Port Moller	55.693	160.876		84J-12C (KC)	Tertiary		0.52	Shell Oil Company
VO-2935	Port Moller	55.693	160.876		84J-12C (RM)	Tertiary		0.60	Shell Oil Company
VO-2936	Port Moller	55.693	160.876		84J-12D	Tertiary		0.62	Shell Oil Company
VO-2937	Port Moller	55.693	160.876		84J-12E	Tertiary		0.52	Shell Oil Company
VO-2938	Port Moller	55.693	160.876		84J-12F	Tertiary		0.63	Shell Oil Company
VO-2939	Port Moller	55.693	160.876		84J-12H	Tertiary		0.52	Shell Oil Company
VO-2940	Port Moller	55.693	160.876		84J-12I	Tertiary		0.55	Shell Oil Company
VO-2941	Port Moller	55.693	160.876		84J-12J	Tertiary		0.56	Shell Oil Company
VO-2942	Port Moller	55.693	160.876		84J-12K	Tertiary		0.52	Shell Oil Company
VO-2943	Port Moller	55.693	160.876		84J-12L	Tertiary		0.57	Shell Oil Company
VO-2944	Port Moller	55.693	160.876		84J-12M	Tertiary		0.61	Shell Oil Company
VO-2945	Port Moller	55.693	160.876		84J-12N	Tertiary		0.60	Shell Oil Company
VO-2946	Port Moller	55.693	160.876		84J-12O	Tertiary		0.53	Shell Oil Company
VO-2947	Port Moller	55.693	160.876		84J-12P	Tertiary		0.53	Shell Oil Company
VO-2948	Port Moller	55.693	160.876		84J-12P-2	Tertiary		0.56	Shell Oil Company
VO-2949	Port Moller	55.698	160.056		85S-29A	Oligocene-Eocene	Stepovak	3.54	Shell Oil Company
VO-2950	Port Moller	55.72972	160.57972		9	U. Cretaceous	Chignik Fm	0.90	Merritt, 1986b
VO-2951	Port Moller	55.750	160.542		81R-4	L. Cretaceous	Kuc	0.70	Shell Oil Company
VO-2952	Port Moller	55.750	160.542		81R-55A	U. Cretaceous	Hoodoo	0.64	Shell Oil Company
VO-2953	Port Moller	55.750	160.542		81R-55F+100	U. Cretaceous	Hoodoo	0.67	Shell Oil Company
VO-2954	Port Moller	55.750	160.542		81R-55L	U. Cretaceous	Hoodoo	0.67	Shell Oil Company
VO-2955	Port Moller	55.750	160.542		76N-76	U. Cretaceous	Chignik	0.45	Shell Oil Company
VO-2956	Port Moller	55.750	160.544		84J-39	U. Cretaceous	Chignik	0.45	Shell Oil Company
VO-2957	Port Moller	55.75778	160.84306		2	Tertiary	Bear Lake Fm	0.27	Merritt, 1986b
VO-2958	Port Moller	55.761	160.388		81R-111A	Oligocene	Tos	0.45	Shell Oil Company
VO-2959	Port Moller	55.761	160.388		81R-111D		Tos	0.49	Shell Oil Company
VO-2960	Port Moller	55.761	161.158		81R-117		Tet	0.64	Shell Oil Company
VO-2961	Port Moller	55.76472	160.66750		5	U. Cretaceous	Chignik Fm	0.60	Merritt, 1986b
VO-2962	Port Moller	55.76583	160.62972		7	U. Cretaceous	Chignik Fm	0.59	Merritt, 1986b
VO-2963	Port Moller	55.76583	160.71944		4	U. Cretaceous	Chignik Fm	0.62	Merritt, 1986b
VO-2964	Port Moller	55.76806	160.65167		6	U. Cretaceous	Chignik Fm	0.66	Merritt, 1986b
VO-2965	Port Moller	55.77694	160.87111		1	U. Cretaceous	Chignik Fm	0.66	Merritt, 1986b

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-2966	Port Moller	55.777	160.877		0043357			0.62	Chevron
VO-2967	Port Moller	55.781	160.743		0041305			0.57	Chevron
VO-2968	Port Moller	55.78361	160.55778		10	U. Cretaceous	Chignik Fm	0.69	Merritt, 1986b
VO-2969	Port Moller	55.78472	160.63972		8	U. Cretaceous	Chignik Fm	0.67	Merritt, 1986b
VO-2970	Port Moller	55.78806	160.53778		11	U. Cretaceous	Chignik Fm	0.58	Merritt, 1986b
VO-2971	Port Moller	55.793	160.542		0043353	U. Cretaceous	Coal Valley	0.53	Chevron
VO-2972	Port Moller	55.793	160.542		0043353	U. Cretaceous	Coal Valley	0.55	Chevron
VO-2973	Port Moller	55.795	160.749		85S-14B	U. Cretaceous	Chignik	0.65	Shell Oil Company
VO-2974	Port Moller	55.79944	160.54778		12	U. Cretaceous	Chignik Fm	0.61	Merritt, 1986b
VO-2975	Port Moller	55.79944	160.75361		3	U. Cretaceous	Chignik Fm	0.67	Merritt, 1986b
VO-2976	Port Moller	55.811	160.752		85S-14D	U. Cretaceous	Chignik	0.72	Shell Oil Company
VO-2977	Port Moller	55.811	160.752		85S-14E	U. Cretaceous	Chignik	0.58	Shell Oil Company
VO-2978	Port Moller	55.811	160.752		85S-14H	U. Cretaceous	Chignik	0.59	Shell Oil Company
VO-2979	Port Moller	55.811	160.752		85S-14I (KC)	U. Cretaceous	Chignik	0.52	Shell Oil Company
VO-2980	Port Moller	55.811	160.752		85S-14I (RM)	U. Cretaceous	Chignik	0.50	Shell Oil Company
VO-2981	Port Moller	55.811	160.754		85S-14K	U. Cretaceous	Chignik	0.81	Shell Oil Company
VO-2982	Port Moller	55.811	160.754		85S-14L (KC)	U. Cretaceous	Chignik	0.65	Shell Oil Company
VO-2983	Port Moller	55.811	160.754		85S-14L (RM)	U. Cretaceous	Chignik	0.69	Shell Oil Company
VO-2984	Port Moller	55.811	160.754		85S-14N (KC)	U. Cretaceous	Chignik	0.53	Shell Oil Company
VO-2985	Port Moller	55.811	160.754		85S-14N (RM)	U. Cretaceous	Chignik	0.56	Shell Oil Company
VO-2986	Port Moller	55.812	160.752		0043355	U. Cretaceous	Coal Valley	0.57	Chevron
VO-2987	Port Moller	55.824	160.752		0043356	U. Cretaceous	Coal Valley	0.52	Chevron
VO-2988	Port Moller	55.850	160.640		81R-89A	L. Eocene	Tos	0.52	Shell Oil Company
VO-2989	Port Moller	55.850	160.640		81R-89B	L. Eocene	Tos	0.47	Shell Oil Company
VO-2990	Port Moller	55.86111	160.57806		13	U. Cretaceous	Chignik Fm	0.60	Merritt, 1986b
VO-2991	Port Moller	55.86222	160.55194		14	U. Cretaceous	Chignik Fm	0.55	Merritt, 1986b
VO-2992	Port Moller	55.863	160.262		0041308			0.94	Chevron
VO-2993	Port Moller	55.863	160.262		0041308			0.89	Chevron
VO-2994	Port Moller	55.863	160.568		0043358	Tertiary		0.51	Chevron
VO-2995	Port Moller	55.863	160.590		75H-31	Oligocene	Stepovak	0.32	Shell Oil Company
VO-2996	Port Moller	55.863	160.592		0043359	Paleogene		0.47	Chevron
VO-2997	Port Moller	55.864	160.570		81R-90	L. Eocene	Tos	0.40	Shell Oil Company
VO-2998	Port Moller	55.871	160.328		81R-45		Tmb	0.74	Shell Oil Company
VO-2999	Port Moller	55.871	160.328		81R-49		Tos	0.80	Shell Oil Company
VO-3000	Port Moller	55.871	160.328		81R-50		Tos	0.62	Shell Oil Company
VO-3001	Port Moller	55.871	160.328		81R-51A-C		Tos	0.61	Shell Oil Company
VO-3002	Port Moller	55.883	160.358		0043352	Tertiary	Bearl	0.57	Chevron
VO-3003	Port Moller	55.908	160.082		84J-37	Oligocene	Stepovak	2.24	Shell Oil Company
VO-3004	Port Moller	55.909	160.082		70Z+80	Eocene-Oligocene	Stepovak	2.32	Shell Oil Company
VO-3005	Port Moller	55.924	160.082		75H-47+0	Oligocene	Stepovak	1.84	Shell Oil Company
VO-3006	Port Moller	55.924	160.082		75H-47+100	Oligocene	Stepovak	1.83	Shell Oil Company
VO-3007	Port Moller	55.981	160.054		0043366	Neogene	Bear	0.59	Chevron
VO-3008	Port Moller	55.981	160.261		81R-64B		Tos	1.05	Shell Oil Company
VO-3009	Ruby	64.853	155.502		74F137A	Cretaceous		0.39	Shell Oil Company
VO-3010	Ruby	64.998	155.297		74F123	Cretaceous		0.49	Shell Oil Company
VO-3011	Sagavanirktok	69.01250	148.80944	351	MJ90-B13a	Cretaceous	Nanushuk Gp	0.86	USGS [Pawlewicz]
VO-3012	Sagavanirktok	69.02167	148.83639	411	MJ90-B10c	Cretaceous	Nanushuk Gp	0.60	USGS [Pawlewicz]
VO-3013	Sagavanirktok	69.03889	148.11306		89MR24C	Cretaceous	Nanushuk Gp.	1.34	Reifenstuhl, 1990
VO-3014	Sagavanirktok	69.09167	148.76222	335	78APE 20 [Lupine River]	Cretaceous	Ninuluk Fm	0.65	PGS - Record # 502239500100000010
VO-3015	Sagavanirktok	69.09250	148.76833		78APE 13 [Lupine River]			0.64	PGS - Record # 502239500100000030
VO-3016	Sagavanirktok	69.09278	148.77028		78APE 10 [Lupine River]			0.74	PGS - Record # 502239500100000050
VO-3018	Sagavanirktok	69.09278	148.77194	320	MJ90-B12b	Cretaceous	Nanushuk Gp	0.68	USGS [Pawlewicz]
VO-3017	Sagavanirktok	69.09361	148.77389		78APE 6 [Lupine River]			0.70	PGS - Record # 502239500100000070

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3019	Sagavanirktok	69.09417	148.77917	305	MJ90-B12e	Cretaceous	Nanushuk Gp	0.84	USGS [Pawlewicz]
VO-3020	Sagavanirktok	69.09833	148.00583	305	MJ90-S9c	L. Cretaceous	Nanushuk Gp	1.87	USGS [Pawlewicz]
VO-3021	Sagavanirktok	69.15000	147.76666	549	82AMK 34A	Cretaceous	Pebble Sh Unit	1.09	PGS - Record # 50223950240000030
VO-3076	Sagavanirktok	69.15583	147.77000	564	89RR70A	Cretaceous	Gilead Ss	2.32	USGS [Pawlewicz]
VO-3077	Sagavanirktok	69.16083	147.78472	899	89RR20-2722	Cretaceous	Gilead Ss	1.03	USGS [Pawlewicz]
VO-3022	Sagavanirktok	69.16111	147.80167		89RR20-2722	Cretaceous	Gilead Ck Ss	1.26	Reifenstuhl, 1990
VO-3023	Sagavanirktok	69.16166	147.78333	762	82AMK 33A	Cretaceous		0.76	PGS - Record # 50223950230000090
VO-3078	Sagavanirktok	69.16694	147.71167	838	89RR009A	Cretaceous	Gilead Ss	2.33	USGS [Pawlewicz]
VO-3079	Sagavanirktok	69.16750	147.78500	884	89RR20-1826	Cretaceous	Gilead Ss	1.75	USGS [Pawlewicz]
VO-3024	Sagavanirktok	69.16778	147.78500		89RR20-1826	Cretaceous	Gilead Ck Ss	1.25	Reifenstuhl, 1990
VO-3025	Sagavanirktok	69.17111	147.71528		89RR20-500	Cretaceous	Gilead Ck Ss	1.30	Reifenstuhl, 1990
VO-3080	Sagavanirktok	69.17111	147.71528	881	89RR20-500	Cretaceous	Gilead Ss	2.25	USGS [Pawlewicz]
VO-3081	Sagavanirktok	69.17111	147.71722	933	89RR20-820	Cretaceous	Gilead Ss	2.12	USGS [Pawlewicz]
VO-3082	Sagavanirktok	69.17222	147.71500	844	89RR20-285	Cretaceous	Gilead Ss	2.18	USGS [Pawlewicz]
VO-3026	Sagavanirktok	69.17250	147.71528		89RR20-285	Cretaceous	Gilead Ck Ss	1.34	Reifenstuhl, 1990
VO-3083	Sagavanirktok	69.17417	147.71000	671	89RR19A	Jurassic	Kingak Sh	2.54	USGS [Pawlewicz]
VO-3027	Sagavanirktok	69.17611	147.71306		89RR19A	Jurassic	Kingak Fm	1.43	Reifenstuhl, 1990
VO-3028	Sagavanirktok	69.18500	148.53861	427	82AMK 9B	Cretaceous		0.41	PGS - Record # 50223950210000010
VO-3029	Sagavanirktok	69.19583	147.61083		89MR16B	Jurassic	Kingak Fm	2.12	Reifenstuhl, 1990
VO-3031	Sagavanirktok	69.20333	147.85166	457	82AMK 38	Jurassic	Kingak Sh	1.98	PGS - Record # 50223950260000010
VO-3032	Sagavanirktok	69.31194	147.67277	320	80AMK 3B			0.95	PGS - Record # 50223950140000010
VO-3033	Sagavanirktok	69.31194	147.67277	320	80AMK 3A			1.72	PGS - Record # 50223950140000020
VO-3034	Sagavanirktok	69.31194	147.67361		89MR19C	Hauterivian	Kemik Ss	1.11	Reifenstuhl, 1990
VO-3771	Sagavanirktok	69.31218	147.67331		96DH-55	Jurassic	Kingak Sh	1.55	USGS [Pawlewicz]
VO-3772	Sagavanirktok	69.31218	147.67331		96DH-58	Jurassic	Kingak Sh	1.97	USGS [Pawlewicz]
VO-3773	Sagavanirktok	69.31417	147.69836		96DH-74	Cretaceous	Hue Sh	1.78	USGS [Pawlewicz]
VO-3035	Sagavanirktok	69.31611	147.70361	320	80AMK 6	Cretaceous	Torok Fm	1.69	PGS - Record # 50223950160000010
VO-3774	Sagavanirktok	69.31978	147.70757		96DH-76	Cretaceous	Canning Fm	1.53	USGS [Pawlewicz]
VO-3036	Sagavanirktok	69.32166	148.67194	213	82AMK 60	Cretaceous		0.34	PGS - Record # 50223950280000010
VO-3037	Sagavanirktok	69.34166	147.13333	457	82AMK 69B	M. Triassic	Shublik Fm	2.21	PGS - Record # 50223950330000010
VO-3038	Sagavanirktok	69.34305	147.20388	457	80AMK 1F			1.71	PGS - Record # 50223950130000020
VO-3039	Sagavanirktok	69.34305	147.20388	457	80AMK 1A			1.29	PGS - Record # 50223950130000040
VO-3040	Sagavanirktok	69.36416	147.12333	411	80AMK 8I			1.16	PGS - Record # 50223950170000020
VO-3041	Sagavanirktok	69.36472	147.12333	411	80AMK 8E			0.95	PGS - Record # 50223950170000040
VO-3760	Sagavanirktok	69.3652	148.266		TF94AK 12-9	Tertiary	Sagavanirktok Fm	0.41	USGS [Pawlewicz]
VO-3042	Sagavanirktok	69.36527	147.12333	411	80AMK 8A			0.95	PGS - Record # 50223950170000060
VO-3755	Sagavanirktok	69.36583	147.12700		95MU-41A	Cretaceous	Pebble Sh	1.64	USGS [Pawlewicz]
VO-3759	Sagavanirktok	69.3707	148.2647		TF94AK 12-7	Tertiary	Sagavanirktok Fm	0.48	USGS [Pawlewicz]
VO-3043	Sagavanirktok	69.38278	148.71472	233	SAG1-3-2	Paleocene	Sagavanirktok	0.38	S.B. Roberts
VO-3044	Sagavanirktok	69.38278	148.71472	262	SAG1-8-4	Paleocene	Sagavanirktok	0.39	S.B. Roberts
VO-3045	Sagavanirktok	69.38278	148.71472	296	SAG1-20-1	Paleocene	Sagavanirktok	0.32	S.B. Roberts
VO-3757	Sagavanirktok	69.3828	148.7169		MJ94AK-8	Tertiary	Sagavanirktok Fm	0.51	USGS [Pawlewicz]
VO-3756	Sagavanirktok	69.3831	148.7106		MJ94AK-11	Tertiary	Sagavanirktok Fm	0.52	USGS [Pawlewicz]
VO-3046	Sagavanirktok	69.39055	147.14305	396	80AMK 9E			1.15	PGS - Record # 50223950180000020
VO-3047	Sagavanirktok	69.39250	147.14527	396	80AMK 9A			1.24	PGS - Record # 50223950180000040
VO-3048	Sagavanirktok	69.40333	148.67583	280	SAG2-5-1	Paleocene	Sagavanirktok	0.30	S.B. Roberts
VO-3049	Sagavanirktok	69.40333	148.67583	317	SAG2-11-3	Paleocene	Sagavanirktok	0.29	S.B. Roberts
VO-3050	Sagavanirktok	69.40333	148.67583	393	SAG2-19-1	Paleocene	Sagavanirktok	0.35	S.B. Roberts
VO-3051	Sagavanirktok	69.40333	148.67583		SBTu-A	Paleocene	Sagavanirktok	0.42	S.B. Roberts
VO-3052	Sagavanirktok	69.40333	148.67583		SBTu-B	Paleocene	Sagavanirktok	0.42	S.B. Roberts
VO-3053	Sagavanirktok	69.40333	148.67583		SBTu2-C	Paleocene	Sagavanirktok	0.43	S.B. Roberts
VO-3054	Sagavanirktok	69.40333	148.67583		SBTu2-D	Paleocene	Sagavanirktok	0.40	S.B. Roberts
VO-3055	Sagavanirktok	69.40333	148.67583		SBTu2-E	Paleocene	Sagavanirktok	0.42	S.B. Roberts

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3056	Sagavanirktok	69.40333	148.67583		SBTL1-E	Paleocene	Sagavanirktok	0.42	S.B. Roberts
VO-3057	Sagavanirktok	69.40333	148.67583		SBTL1-F	Paleocene	Sagavanirktok	0.48	S.B. Roberts
VO-3058	Sagavanirktok	69.43361	148.52333		89NS90B	Tertiary	Sagavanirktok	0.46	Reifenstuhl, 1990
VO-3059	Sagavanirktok	69.47750	149.23861	914	82AMK 44A	M. Triassic	Shublik Fm	0.92	PGS - Record # 502039506400000020
VO-3060	Sagavanirktok	69.55833	147.08333	305	82AMK 62I	Cretaceous		0.31	PGS - Record # 502239503000000010
VO-3061	Sagavanirktok	69.55833	147.08333	305	82AMK 62G	Cretaceous		0.36	PGS - Record # 502239503000000020
VO-3062	Sagavanirktok	69.55916	146.52499	229	80ACH 17G			0.72	PGS - Record # 502239501900000010
VO-3063	Sagavanirktok	69.55916	146.52499	229	80ACH 17D			0.52	PGS - Record # 502239501900000020
VO-3761	Sagavanirktok	69.5617	147.7782		TF94AK 13-SH5	Tertiary	Sagavanirktok Fm	0.47	USGS [Pawlewicz]
VO-3064	Sagavanirktok	69.58333	147.79333	183	SH1-2-1	Paleocene	Sagavanirktok	0.32	USGS [Roberts]
VO-3065	Sagavanirktok	69.58333	147.79333	183	SH1-4-1	Paleocene	Sagavanirktok	0.31	USGS [Roberts]
VO-3066	Sagavanirktok	69.58333	147.79333	183	SH1-7-1	Paleocene	Sagavanirktok	0.37	USGS [Roberts]
VO-3067	Sagavanirktok	69.58333	147.79333	183	SH1-7-2	Paleocene	Sagavanirktok	0.29	USGS [Roberts]
VO-3068	Sagavanirktok	69.58333	147.79333	183	SH1-9-2	Paleocene	Sagavanirktok	0.30	USGS [Roberts]
VO-3069	Sagavanirktok	69.58333	147.79333	183	SH1-12-3	Paleocene	Sagavanirktok	0.34	USGS [Roberts]
VO-3070	Sagavanirktok	69.58333	147.79333	183	SH1-12-5	Paleocene	Sagavanirktok	0.33	USGS [Roberts]
VO-3071	Sagavanirktok	69.58333	147.79333	183	SH1-14-3	Paleocene	Sagavanirktok	0.28	USGS [Roberts]
VO-3072	Sagavanirktok	69.58333	147.79333	183	SH1-14-4	Paleocene	Sagavanirktok	0.31	USGS [Roberts]
VO-3073	Sagavanirktok	69.58333	147.79333	183	SH1-16-1	Paleocene	Sagavanirktok	0.33	USGS [Roberts]
VO-3074	Sagavanirktok	69.58333	147.79333	183	SH1-16-4	Paleocene	Sagavanirktok	0.29	USGS [Roberts]
VO-3758	Sagavanirktok	69.6287	149.1198		TF94AK 005-1	Tertiary	Sagavanirktok Fm	0.4	USGS [Pawlewicz]
VO-3075	Sagavanirktok	69.96666	148.80166	46	82AMK 57D	Cretaceous		0.60	PGS - Record # 502239502700000030
VO-3084	Selawik	66.99722	159.97916	30	83ASK266B			0.67	PGS - Record # 500219500400000010
VO-3085	Seldovia	59.350	151.947		73D46	U. Triassic	Unnamed	2.11	Shell Oil Company
VO-3086	Seldovia	59.370	151.365		77B-34+0	Triassic		1.37	Shell Oil Company
VO-3087	Seldovia	59.370	151.365		77B-34+5	Triassic		2.45	Shell Oil Company
VO-3088	Seldovia	59.370	151.365		77B-37	Triassic		2.17	Shell Oil Company
VO-3089	Seldovia	59.398	151.898		61J-183	Tertiary	Kenai	0.44	Shell Oil Company
VO-3090	Seldovia	59.442	151.750		74H162	L. Jurassic	Talkeetna	1.83	Shell Oil Company
VO-3091	Seldovia	59.442	151.750		74H162 Coaly	L. Jurassic	Talkeetna	1.85	Shell Oil Company
VO-3092	Seldovia	59.475	151.670		61J192+170	Miocene	Kenai	0.26	Shell Oil Company
VO-3093	Seldovia	59.475	151.670		61J192+195	Miocene	Kenai	0.38	Shell Oil Company
VO-3094	Seldovia	59.643	151.582		UA 118	Miocene	Beluga	0.22	Shell Oil Company
VO-3095	Seldovia	59.708	151.458		78H-11E+F	Pliocene	Sterling	0.25	Shell Oil Company
VO-3096	Seldovia	59.708	151.458		78H-11A+B	Pliocene	Sterling	0.23	Shell Oil Company
VO-3097	Seldovia	59.708	151.458		78H-11K+J	Pliocene	Sterling	0.27	Shell Oil Company
VO-3098	Seldovia	59.708	151.458		78H-11D+G	Pliocene	Sterling	0.30	Shell Oil Company
VO-3099	Seldovia	59.708	151.458		78H-12I+J	Pliocene	Sterling	0.29	Shell Oil Company
VO-3100	Seldovia	59.715	151.808		61H601+1	Tertiary	Kenai	0.38	Shell Oil Company
VO-3101	Seldovia	59.718	151.242		78H-13G+H+I	Miocene	Beluga	0.34	Shell Oil Company
VO-3102	Seldovia	59.718	151.242		78H-13A+A+B+C	Miocene	Beluga	0.29	Shell Oil Company
VO-3103	Seldovia	59.718	151.242		78H-14C	Miocene	Beluga	0.27	Shell Oil Company
VO-3104	Seldovia	59.718	151.242		78H-14D	Miocene	Beluga	0.23	Shell Oil Company
VO-3105	Seldovia	59.718	151.242		78H-15A+B+C	Miocene	Beluga	0.27	Shell Oil Company
VO-3106	Seldovia	59.732	151.217		61H-706+1	Tertiary	Kenai	0.31	Shell Oil Company
VO-3107	Seldovia	59.732	151.217		61H-705+1	Tertiary	Kenai	0.32	Shell Oil Company
VO-3108	Seldovia	59.732	151.217		61H-704+1	Tertiary	Kenai	0.30	Shell Oil Company
VO-3109	Seldovia	59.877	152.928		77B13+195	Oxfordian-Kimmeridgian	Pomeroy	1.70	Shell Oil Company
VO-3110	Seldovia	59.877	152.928		77B12+925	Oxfordian-Kimmeridgian	Pomeroy	1.42	Shell Oil Company
VO-3111	Seldovia	59.877	152.928		77B11+635	Oxfordian-Kimmeridgian	Pomeroy	0.67	Shell Oil Company
VO-3112	Seldovia	59.877	152.928		77B11+55	Oxfordian-Kimmeridgian	Pomeroy	0.83	Shell Oil Company
VO-3113	Seldovia	59.877	152.982		77B20+400	Oxfordian-Kimmeridgian	Snug Harbor	0.61	Shell Oil Company
VO-3114	Seldovia	59.877	152.982		77B20+5	Oxfordian-Kimmeridgian	Snug Harbor	0.59	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3115	Seldovia	59.877	152.982		77B19+675	Oxfordian-Kimmeridgian	Snug Harbor	0.48	Shell Oil Company
VO-3116	Seldovia	59.877	152.982		77B19-90	Callovian	Paveloff	0.66	Shell Oil Company
VO-3117	Seldovia	59.877	152.982		81J-12+100	L. Tertiary, Paleogene		0.46	Shell Oil Company
VO-3118	Seldovia	59.930	151.745		UA-131	Miocene	Beluga	0.24	Shell Oil Company
VO-3119	Seldovia	59.990	152.953		76B91+100	M. Jurassic	Red Glacier	0.95	Shell Oil Company
VO-3120	Seldovia	59.990	152.953		76B91+0	M. Jurassic	Red Glacier	1.06	Shell Oil Company
VO-3121	Seldovia	59.990	152.953		76B91-20	M. Jurassic	Red Glacier	1.05	Shell Oil Company
VO-3122	Seldovia	59.990	152.953		76B91-70	M. Jurassic	Red Glacier	0.97	Shell Oil Company
VO-3123	Sitka	57.25444	134.10722	0	88HC268	Cretaceous	Seymour Canal Fm	2.55	USGS [Pawlewicz]
VO-3124	Sitka	57.29056	134.01889	0	88HC287	Cretaceous	Seymour Canal Fm	4.01	USGS [Pawlewicz]
VO-3125	Sitka	57.95583	134.28139	0	88HC153	Cretaceous	Seymour Canal Fm	4.48	USGS [Pawlewicz]
VO-3126	Sleetmute	61.050	156.457		029-B / FSE/981			1.07	British Petroleum
VO-3127	Sleetmute	61.110	157.520		130-B / FSF061			1.71	British Petroleum
VO-3128	Sleetmute	61.110	157.520		130-C / FSF062			1.74	British Petroleum
VO-3129	Sleetmute	61.160	156.420		190-C / FSF099			1.35	British Petroleum
VO-3130	Sleetmute	61.247	156.703		065-A1 / FSF003			2.00	British Petroleum
VO-3131	Sleetmute	61.247	156.703		065-A4 / FSF006			1.79	British Petroleum
VO-3132	Sleetmute	61.247	156.703		065-B1 / FSF012			1.90	British Petroleum
VO-3133	Sleetmute	61.247	156.703		073-B / FSF038			1.85	British Petroleum
VO-3134	Sleetmute	61.332	156.703		066-B / FSF019			0.79	British Petroleum
VO-3135	Sleetmute	61.332	156.703		066-F / FSF023			0.91	British Petroleum
VO-3136	St Lawrence	63.358	170.683		4	Tertiary		0.39	Fisher, 1982
VO-3137	St Lawrence	63.458	170.550		3	Tertiary		0.22	Fisher, 1982
VO-3138	St Lawrence	63.567	171.650		2	Tertiary		0.39	Fisher, 1982
VO-3139	St Lawrence	63.633	171.500		1	Tertiary		0.24	Fisher, 1982
VO-3140	Stepovak Bay	55.314	159.301		84J-31A (KC)	Cretaceous	Chignik	1.03	Shell Oil Company
VO-3141	Stepovak Bay	55.314	159.301		84J-31A (RM)	Cretaceous	Chignik	0.93	Shell Oil Company
VO-3142	Stepovak Bay	55.314	159.301		84J-31B (KC)	Cretaceous	Chignik	0.96	Shell Oil Company
VO-3143	Stepovak Bay	55.314	159.301		84J-31B (RM)	Cretaceous	Chignik	0.93	Shell Oil Company
VO-3144	Stepovak Bay	55.314	159.301		84J-31C (CP)	Cretaceous	Chignik	1.00	Shell Oil Company
VO-3145	Stepovak Bay	55.314	159.301		84J-31C-2 (RM)	Cretaceous	Chignik	1.02	Shell Oil Company
VO-3146	Stepovak Bay	55.317	159.409		84J-32	Eocene	Tolstoi	2.77	Shell Oil Company
VO-3147	Stepovak Bay	55.845	159.406		84J-20	Eocene	Stepovak	1.42	Shell Oil Company
VO-3148	Stepovak Bay	55.845	159.406		84J-21	Eocene	Stepovak	1.28	Shell Oil Company
VO-3149	Stepovak Bay	55.845	159.406		84J-22	Eocene	Stepovak	1.39	Shell Oil Company
VO-3150	Stepovak Bay	55.845	159.406		84J-23	Eocene	Stepovak	1.34	Shell Oil Company
VO-3151	Stepovak Bay	55.845	159.406		84J-24	Eocene	Stepovak	1.31	Shell Oil Company
VO-3152	Stepovak Bay	55.845	159.406		84J-25	Eocene	Stepovak	1.33	Shell Oil Company
VO-3153	Stepovak Bay	55.845	159.406		84J-26	Eocene	Tolstoi	1.16	Shell Oil Company
VO-3154	Stepovak Bay	55.845	159.406		84J-27	Eocene	Tolstoi	1.09	Shell Oil Company
VO-3155	Stepovak Bay	55.845	159.406		84J-28	Eocene	Tolstoi	1.25	Shell Oil Company
VO-3156	Stepovak Bay	55.845	159.406		84J-29	Eocene	Tolstoi	1.16	Shell Oil Company
VO-3157	Stepovak Bay	55.845	159.406		84J-30	Eocene	Tolstoi	1.27	Shell Oil Company
VO-3158	Stepovak Bay	55.845	159.406		84J-31	Eocene	Tolstoi	1.21	Shell Oil Company
VO-3159	Stepovak Bay	55.845	159.406		84J-32	Eocene	Stepovak	1.29	Shell Oil Company
VO-3160	Stepovak Bay	55.845	159.406		84J-33	Eocene	Stepovak	1.22	Shell Oil Company
VO-3161	Stepovak Bay	55.845	159.406		84J-34	Eocene	Stepovak	1.30	Shell Oil Company
VO-3162	Stepovak Bay	55.845	159.406		84J-35	Eocene	Stepovak	1.30	Shell Oil Company
VO-3163	Stepovak Bay	55.852	159.464		75Y-84	Oligocene	Stepovak	0.81	Shell Oil Company
VO-3164	Stepovak Bay	55.852	159.572		75Y-85	U. Cretaceous	Stepovak	0.79	Shell Oil Company
VO-3165	Stepovak Bay	55.880	159.770		75Y-82A	Oligocene	Stepovak	0.85	Shell Oil Company
VO-3166	Stepovak Bay	55.893	159.572		84J-36	Eocene	Tolstoi	0.79	Shell Oil Company
VO-3167	Stepovak Bay	55.894	159.572		75Y-85	U. Cretaceous	Chignik	0.66	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3168	Stepovak Bay	55.907	159.548		85S-45A (KC)	Eocene	Tolstoi	0.62	Shell Oil Company
VO-3169	Stepovak Bay	55.907	159.548		85S-45A (RM)	Eocene	Tolstoi	0.73	Shell Oil Company
VO-3170	Stepovak Bay	55.907	159.552		84J-18	Eocene	Tolstoi	0.62	Shell Oil Company
VO-3171	Stepovak Bay	55.907	159.552		84J-19	Eocene	Tolstoi	0.73	Shell Oil Company
VO-3172	Stepovak Bay	55.924	159.754		75Y-25	Oligocene	Stepovak	0.56	Shell Oil Company
VO-3173	Stepovak Bay	55.924	159.754		75Y-26	Oligocene	Stepovak	0.54	Shell Oil Company
VO-3174	Stepovak Bay	55.924	159.766		75Y-67	Oligocene	Stepovak	0.66	Shell Oil Company
VO-3175	Stepovak Bay	55.950	159.754		75Y-16	Oligocene	Stepovak	0.54	Shell Oil Company
VO-3176	Sumdum	57.29556	133.86500	0	88HC372	Cretaceous	Seymour Canal Fm	2.96	USGS [Pawlewicz]
VO-3177	Survey Pass	67.90000	154.53750	1311	78ABE 248GX	Mississippian	Kayak Sh	3.23	PGS - Record # 50259950020000010
VO-3178	Sutwik Island	56.628	157.483		84J-66	Eocene	Tolstoi	0.51	Shell Oil Company
VO-3179	Sutwik Island	56.628	157.483		84J-67	Eocene	Tolstoi	0.45	Shell Oil Company
VO-3180	Sutwik Island	56.628	157.483		84J-68	Eocene	Tolstoi	0.58	Shell Oil Company
VO-3181	Sutwik Island	56.628	157.483		84J-69	Eocene	Tolstoi	0.61	Shell Oil Company
VO-3182	Sutwik Island	56.628	157.483		84J-70	Eocene	Tolstoi	0.59	Shell Oil Company
VO-3183	Sutwik Island	56.628	157.483		84J-71	Eocene	Tolstoi	0.61	Shell Oil Company
VO-3184	Sutwik Island	56.628	157.483		84J-72	Eocene	Tolstoi	0.57	Shell Oil Company
VO-3185	Sutwik Island	56.628	157.483		84J-73	Eocene	Tolstoi	0.54	Shell Oil Company
VO-3186	Sutwik Island	56.661	157.518		0033947	Eocene	Tolstoi	0.69	Chevron
VO-3187	Sutwik Island	56.830	157.480		84J-9	Eocene	Tolstoi	2.05	Shell Oil Company
VO-3188	Sutwik Island	56.830	157.480		84J-10	Eocene	Tolstoi	2.16	Shell Oil Company
VO-3189	Sutwik Island	56.833	157.337		84J-16	Eocene	Tolstoi	0.74	Shell Oil Company
VO-3190	Sutwik Island	56.833	157.337		84J-17	Eocene	Tolstoi	0.73	Shell Oil Company
VO-3191	Sutwik Island	56.834	157.859		0033951	Eocene	Tolstoi	0.61	Chevron
VO-3192	Sutwik Island	56.847	157.358		84J-11	Eocene	Tolstoi	1.94	Shell Oil Company
VO-3193	Sutwik Island	56.847	157.358		84J-12	Eocene	Tolstoi	2.00	Shell Oil Company
VO-3194	Sutwik Island	56.847	157.358		84J-13	Eocene	Tolstoi	1.83	Shell Oil Company
VO-3195	Sutwik Island	56.847	157.358		84J-14	Eocene	Tolstoi	0.71	Shell Oil Company
VO-3196	Sutwik Island	56.847	157.358		84J-15	Eocene	Tolstoi	2.11	Shell Oil Company
VO-3197	Table Mountain	68.00167	143.31333	1372	90A-91A	Mississippian	Kayak Sh	4.74	USGS [Pawlewicz]
VO-3198	Table Mountain	68.21527	143.38333	1006	78ABE 20	Devonian		5.13	PGS - Record # 50263950020000010
VO-3199	Table Mountain	68.30833	143.39166	853	78ABE 12A	Devonian	Hunt Fork Sh	2.49	PGS - Record # 50263950010000010
VO-3200	Table Mountain	68.55138	142.99111	1219	78ABE 41D	Devonian-Mississippian	Kanayut Cong	3.44	PGS - Record # 50263950060000010
VO-3201	Table Mountain	68.65416	143.93333	1433	78ABE 40A	Devonian-Mississippian	Kanayut Cong	3.20	PGS - Record # 50263950050000010
VO-3202	Talkeetna	62.05583	151.90500		JC3-1	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3203	Talkeetna	62.05583	151.90500		JC3-5	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3204	Talkeetna	62.36444	151.57778		FM1-2	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3205	Talkeetna	62.36444	151.57778		FM1-4	Tertiary	Kenai Gp	0.40	Merritt, 1990
VO-3206	Talkeetna	62.36444	151.57778		FM1-7	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3207	Talkeetna	62.36444	151.57778		FM1-10	Tertiary	Kenai Gp	0.36	Merritt, 1990
VO-3208	Talkeetna	62.36444	151.57778		FM1-13	Tertiary	Kenai Gp	0.39	Merritt, 1990
VO-3209	Talkeetna	62.36778	151.56556		FM2-1	Tertiary	Kenai Gp	0.30	Merritt, 1990
VO-3210	Talkeetna	62.36778	151.56556		FM2-2	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3211	Talkeetna	62.36778	151.56556		FM2-6	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3212	Talkeetna	62.36778	151.56556		FM2-8	Tertiary	Kenai Gp	0.23	Merritt, 1990
VO-3213	Talkeetna	62.39528	151.47944		CpC1-1	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3214	Talkeetna	62.41667	150.73917		PA3-1	Tertiary	Kenai Gp	0.40	Merritt, 1990
VO-3215	Talkeetna	62.42944	150.82583		PA2-1	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3216	Talkeetna	62.47444	151.03500		PA1-5	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3217	Talkeetna	62.47444	151.03500		PA1-32	Tertiary	Kenai Gp	0.36	Merritt, 1990
VO-3218	Talkeetna	62.47444	151.03500		PA1-34	Tertiary	Kenai Gp	0.31	Merritt, 1990
VO-3219	Talkeetna Mountains	62.053	149.735		UA 149	Tertiary	Kenai	0.25	Shell Oil Company
VO-3220	Talkeetna Mountains	62.400	149.768		UA 115	Tertiary	Kenai	0.24	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3221	Talkeetna Mountains	62.400	149.768		UA 116	Tertiary	Kenai	0.24	Shell Oil Company
VO-3222	Talkeetna Mountains	62.413	149.770		61J-84	Tertiary	Kenai	0.29	Shell Oil Company
VO-3223	Talkeetna Mountains	62.803	149.352		78A-20D	Miocene	Healy Cr.	0.28	Shell Oil Company
VO-3224	Talkeetna Mountains	62.828	149.063		78A-22B	Miocene	Suntrana	0.32	Shell Oil Company
VO-3225	Talkeetna Mountains	62.913	148.855		78A-11G	Miocene	Suntrana	0.90	Shell Oil Company
VO-3226	Talkeetna Mountains	62.913	148.855		78A-11P	Miocene	Lignite Cr.	0.26	Shell Oil Company
VO-3227	Talkeetna Mountains	62.913	148.855		UA 140	Miocene	Suntrana	0.27	Shell Oil Company
VO-3228	Talkeetna Mountains	62.928	149.030		78A-15A	Miocene	Lignite Cr.	0.29	Shell Oil Company
VO-3229	Tanana	65.00666	150.59666	152	87AST2	Cretaceous	JKs map unit	2.96	USGS [Pawlewicz]
VO-3230	Tanana	65.00666	150.59666	152	87AST1	Cretaceous	JKs map unit	2.47	USGS [Pawlewicz]
VO-3231	Tanana	65.02500	150.51000	198	87AST6	Cretaceous	JKs map unit	2.05	USGS [Pawlewicz]
VO-3232	Tanana	65.02500	150.51000	198	87AST7	Cretaceous	JKs map unit	1.81	USGS [Pawlewicz]
VO-3233	Tanana	65.16000	150.15500	198	87AST12	Cretaceous	JKs map unit	4.03	USGS [Pawlewicz]
VO-3234	Tanana	65.18333	151.98333	229	88AST-2A	Tertiary		0.79	USGS [Pawlewicz]
VO-3235	Tanana	65.18333	151.98333	229	88AST-2B	Tertiary		0.96	USGS [Pawlewicz]
VO-3236	Tanana	65.22500	151.43333	76	88AST-3D	Tertiary		0.96	USGS [Pawlewicz]
VO-3237	Tanana	65.22500	151.43333	76	88AST-3E	Tertiary		0.70	USGS [Pawlewicz]
VO-3238	Tanana	65.22666	150.18166	533	87AST15	Cretaceous	JKs map unit	4.40	USGS [Pawlewicz]
VO-3239	Tanana	65.24000	150.17500	579	87AST25	Cretaceous	JKs map unit	3.57	USGS [Pawlewicz]
VO-3240	Tanana	65.24000	150.17500	579	87AST26	Cretaceous	JKs map unit	3.65	USGS [Pawlewicz]
VO-3241	Tanana	65.24500	150.17000	411	87AST21	Cretaceous	JKs map unit	4.28	USGS [Pawlewicz]
VO-3242	Tanana	65.24500	150.17000	411	87AST22	Cretaceous	JKs map unit	4.50	USGS [Pawlewicz]
VO-3243	Tanana	65.28500	150.14500	335	87AST17	Cretaceous	JKs map unit	5.33	USGS [Pawlewicz]
VO-3244	Tanana	65.28500	150.14500	335	87AST16	Cretaceous	JKs map unit	5.46	USGS [Pawlewicz]
VO-3245	Tanana	65.52499	150.12500	91	88AST-17	Tertiary		0.31	USGS [Pawlewicz]
VO-3246	Tanana	65.53333	150.12500	107	88AST-19A	Tertiary		0.31	USGS [Pawlewicz]
VO-3247	Tanana	65.54166	150.11666	107	88AST-20	Tertiary		0.26	USGS [Pawlewicz]
VO-3248	Tanana	65.54166	150.11666	107	88AST-21	Tertiary		0.29	USGS [Pawlewicz]
VO-3249	Tanana	65.58333	151.36666	335	88AST-5	Tertiary		0.31	USGS [Pawlewicz]
VO-3250	Tanana	65.58333	151.36666	335	88AST-6A	Tertiary		0.35	USGS [Pawlewicz]
VO-3251	Tanana	65.58333	151.36666	335	88AST-7	Tertiary		0.24	USGS [Pawlewicz]
VO-3252	Tanana	65.58333	151.36666	335	88AST-11A	Tertiary		0.34	USGS [Pawlewicz]
VO-3253	Tanana	65.722	152.748		74F-253	Cretaceous		1.26	Shell Oil Company
VO-3254	Taylor Mountains	60.510	158.468		74C-100+4500	Cretaceous	marine	1.93	Shell Oil Company
VO-3255	Taylor Mountains	60.510	158.468		74C-100+3800	Cretaceous	marine	1.78	Shell Oil Company
VO-3256	Taylor Mountains	60.510	158.468		74C-100+3100	Cretaceous	marine	1.83	Shell Oil Company
VO-3257	Taylor Mountains	60.510	158.468		74C-100+2500	Cretaceous	marine	1.90	Shell Oil Company
VO-3258	Taylor Mountains	60.510	158.468		74C-100+1760	Cretaceous	marine	1.64	Shell Oil Company
VO-3259	Taylor Mountains	60.923	156.565		043 / FSF108			1.05	British Petroleum
VO-3260	Taylor Mountains	60.985	156.173		023-F / FSE979			1.11	British Petroleum
VO-3261	Teller	65.74167	165.91667		89LMC-8C	Cretaceous-Tertiary		0.70	PGS - Record # 501899500100000001
VO-3262	Trinity Islands	55.828	155.606		76K-67A (acid)	Eocene?	Sitkalidak	0.48	Shell Oil Company
VO-3263	Trinity Islands	55.828	155.606		76K-67A (rock)	Eocene?	Sitkalidak	0.53	Shell Oil Company
VO-3264	Trinity Islands	55.842	155.606		76K-118B		Sitkalidak	0.50	Shell Oil Company
VO-3265	Trinity Islands	55.842	155.606		76K-119A		Sitkalidak	0.33	Shell Oil Company
VO-3266	Trinity Islands	56.493	154.228		73D-70	Oligocene-Miocene	Narrow Cape	0.52	Shell Oil Company
VO-3267	Trinity Islands	56.493	154.228		73D-71	Oligocene-Miocene	Narrow Cape	0.53	Shell Oil Company
VO-3268	Trinity Islands	56.493	154.228		73D-72	Oligocene-Miocene	Narrow Cape	0.43	Shell Oil Company
VO-3269	Trinity Islands	56.493	154.228		73D-73	Oligocene-Miocene	Narrow Cape	0.53	Shell Oil Company
VO-3270	Trinity Islands	56.493	154.228		73D-74	Oligocene-Miocene	Narrow Cape	0.45	Shell Oil Company
VO-3271	Trinity Islands	56.493	154.228		76K-37	Miocene	Sitkinak	0.38	Shell Oil Company
VO-3272	Trinity Islands	56.493	154.228		76K-38C	Miocene	Sitkinak	0.44	Shell Oil Company
VO-3273	Trinity Islands	56.493	154.228		76K-38F	Miocene	Sitkinak	0.39	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops									
		North	West	Elev					
Record No.	Quadrangle	Latitude	Longitude	(m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3274	Trinity Islands	56.493	154.228		76K-39A	Miocene	Sitkinak	0.45	Shell Oil Company
VO-3275	Trinity Islands	56.493	154.228		76K-39E	Miocene	Sitkinak	0.41	Shell Oil Company
VO-3276	Trinity Islands	56.498	154.216		76K-40A	Miocene	Sitkinak	0.40	Shell Oil Company
VO-3277	Trinity Islands	56.507	154.208		76K-48E	Miocene	Sitkinak	0.43	Shell Oil Company
VO-3278	Trinity Islands	56.507	154.208		76K-48F	Miocene	Sitkinak	0.36	Shell Oil Company
VO-3279	Trinity Islands	56.507	154.208		76K 113A	Oligocene	Sitkinak	0.45	Shell Oil Company
VO-3280	Trinity Islands	56.507	154.208		76K 113B	Oligocene	Sitkinak	0.39	Shell Oil Company
VO-3281	Trinity Islands	56.507	154.208		76K 113B2	Oligocene	Sitkinak	0.46	Shell Oil Company
VO-3282	Trinity Islands	56.507	154.208		76K 115A	Oligocene	Sitkinak	0.46	Shell Oil Company
VO-3283	Trinity Islands	56.507	154.208		76K 115B	Oligocene	Sitkinak	0.48	Shell Oil Company
VO-3284	Trinity Islands	56.507	154.208		76K 115C	Oligocene	Sitkinak	0.46	Shell Oil Company
VO-3285	Trinity Islands	56.508	154.128		73D-67	Oligocene-Miocene	Sitkinak	0.36	Shell Oil Company
VO-3286	Trinity Islands	56.508	154.128		73D-68	Oligocene-Miocene	Sitkinak	0.61	Shell Oil Company
VO-3287	Trinity Islands	56.508	154.128		73D-69	Eocene-Paleocene	Sitkilidak	0.51	Shell Oil Company
VO-3288	Trinity Islands	56.565	154.598		73D-75	Miocene?	Tugidak	0.43	Shell Oil Company
VO-3289	Tyonek	61.03167	151.30750		BB1-1	Tertiary	Kenai Gp	0.45	Merritt, 1990
VO-3290	Tyonek	61.12028	151.31556		CR5-1	Tertiary	Kenai Gp	0.39	Merritt, 1990
VO-3291	Tyonek	61.12028	151.31556		CR5-3	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3292	Tyonek	61.15444	151.48722		CR6-1	Tertiary	Kenai Gp	0.42	Merritt, 1990
VO-3293	Tyonek	61.15639	151.50861		CR9-1	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3294	Tyonek	61.161	151.519		61J47+100	Tertiary	Kenai	0.33	Shell Oil Company
VO-3295	Tyonek	61.18444	151.62722		CR3-1	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3296	Tyonek	61.188	152.843		UA 112	M. Tertiary		0.18	Shell Oil Company
VO-3297	Tyonek	61.18833	151.59222		CR10-1	Tertiary	Kenai Gp	0.39	Merritt, 1990
VO-3298	Tyonek	61.203	151.520		UA 152	Miocene	Beluga	0.18	Shell Oil Company
VO-3299	Tyonek	61.21278	151.18417		BR1-1	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3300	Tyonek	61.21278	151.18417		BR1-4	Tertiary	Kenai Gp	0.31	Merritt, 1990
VO-3301	Tyonek	61.21278	151.18417		BR1-8	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3302	Tyonek	61.21278	151.18417		BR1-12	Tertiary	Kenai Gp	0.32	Merritt, 1990
VO-3303	Tyonek	61.21278	151.18417		BR1-15	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3304	Tyonek	61.28056	151.77083		CG4-1	Tertiary	Kenai Gp	0.42	Merritt, 1990
VO-3305	Tyonek	61.28056	151.77083		CG4-2	Tertiary	Kenai Gp	0.36	Merritt, 1990
VO-3306	Tyonek	61.28056	151.77083		CG4-4	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3307	Tyonek	61.28056	151.77083		CG4-5	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3308	Tyonek	61.288	151.197		61J-403+4	Tertiary	Kenai	0.31	Shell Oil Company
VO-3309	Tyonek	61.288	151.737		UA 113	Miocene	Tyonek	0.23	Shell Oil Company
VO-3310	Tyonek	61.288	151.737		UA 127	Miocene	Tyonek	0.20	Shell Oil Company
VO-3311	Tyonek	61.288	151.737		UA 148	Miocene	Tyonek	0.24	Shell Oil Company
VO-3312	Tyonek	61.29917	151.71750		CG3-10	Tertiary	Kenai Gp	0.36	Merritt, 1990
VO-3313	Tyonek	61.30194	151.75833		CG1-1	Tertiary	Kenai Gp	0.41	Merritt, 1990
VO-3314	Tyonek	61.40444	151.38056		DC1-1	Tertiary	Kenai Gp	0.41	Merritt, 1990
VO-3315	Tyonek	61.40444	151.38056		DC1-2	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3316	Tyonek	61.420	151.523		61J-43	Tertiary	Kenai	0.33	Shell Oil Company
VO-3317	Tyonek	61.427	151.583		61J-49	Tertiary	Kenai	0.33	Shell Oil Company
VO-3318	Tyonek	61.43611	151.51056		CC3-1	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3319	Tyonek	61.43611	151.51056		CC3-4	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3320	Tyonek	61.55417	150.83444		WC2-4	Tertiary	Kenai Gp	0.45	Merritt, 1990
VO-3321	Tyonek	61.55417	150.83444		WC2-9	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3322	Tyonek	61.55417	150.83444		WC2-10	Tertiary	Kenai Gp	0.42	Merritt, 1990
VO-3323	Tyonek	61.55417	150.83444		WC2-14	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3324	Tyonek	61.58667	150.82806		WC1-3	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3325	Tyonek	61.58667	150.82806		WC1-4	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3326	Tyonek	61.592	150.820		64F-40	Tertiary	Kenai	0.38	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3327	Tyonek	61.67833	151.57000		SC2-3	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3328	Tyonek	61.67972	151.57667		SC3-1	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3329	Tyonek	61.68139	151.58417		SC4-2	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3330	Tyonek	61.68139	151.58417		SC4-4	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3331	Tyonek	61.68139	151.58417		SC4-7	Tertiary	Kenai Gp	0.30	Merritt, 1990
VO-3332	Tyonek	61.68139	151.58417		SC4-12	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3333	Tyonek	61.69333	151.58667		FRC1-1	Tertiary	Kenai Gp	0.38	Merritt, 1990
VO-3334	Tyonek	61.71833	151.45250		TR1-1	Tertiary	Kenai Gp	0.44	Merritt, 1990
VO-3335	Tyonek	61.75583	151.70250		CnC4-1	Tertiary	Kenai Gp	0.30	Merritt, 1990
VO-3336	Tyonek	61.75583	151.70250		CnC4-2	Tertiary	Kenai Gp	0.32	Merritt, 1990
VO-3337	Tyonek	61.75583	151.70250		CnC4-3	Tertiary	Kenai Gp	0.31	Merritt, 1990
VO-3338	Tyonek	61.75583	151.70250		CnC4-4	Tertiary	Kenai Gp	0.31	Merritt, 1990
VO-3339	Tyonek	61.75583	151.70250		CnC4-5	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3340	Tyonek	61.75583	151.70250		CnC4-6	Tertiary	Kenai Gp	0.30	Merritt, 1990
VO-3341	Tyonek	61.75583	151.70250		CnC4-7	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3342	Tyonek	61.75583	151.70250		CnC4-8	Tertiary	Kenai Gp	0.32	Merritt, 1990
VO-3343	Tyonek	61.75583	151.70250		CnC4-9	Tertiary	Kenai Gp	0.37	Merritt, 1990
VO-3344	Tyonek	61.75583	151.70250		CnC4-10	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3345	Tyonek	61.75583	151.70250		CnC4-11	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3346	Tyonek	61.75750	151.70389		CnC2-1	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3347	Tyonek	61.75750	151.70389		CnC2-2	Tertiary	Kenai Gp	0.33	Merritt, 1990
VO-3348	Tyonek	61.75750	151.70389		CnC2-3	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3349	Tyonek	61.75750	151.70389		CnC2-4	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3350	Tyonek	61.75750	151.70389		CnC2-5	Tertiary	Kenai Gp	0.32	Merritt, 1990
VO-3351	Tyonek	61.75750	151.70389		CnC2-6	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3352	Tyonek	61.76556	151.68694		CnC1-1	Tertiary	Kenai Gp	0.39	Merritt, 1990
VO-3353	Tyonek	61.77833	151.75722		CnC6-1	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3354	Tyonek	61.793	150.730		UA 150	Tertiary	Kenai	0.22	Shell Oil Company
VO-3355	Tyonek	61.80139	151.69333		CnC8-2	Tertiary	Kenai Gp	0.34	Merritt, 1990
VO-3356	Tyonek	61.80278	151.71000		CnC7-1	Tertiary	Kenai Gp	0.31	Merritt, 1990
VO-3357	Tyonek	61.97833	151.95750		SR1-2	Tertiary	Kenai Gp	0.35	Merritt, 1990
VO-3358	Ugashik	57.012	157.572		0043369	L. Eocene	Chignik	0.57	Chevron
VO-3359	Ugashik	57.053	157.665		84J-1	Eocene	Tolstoi	1.54	Shell Oil Company
VO-3360	Ugashik	57.053	157.665		84J-2	Eocene	Tolstoi	2.58	Shell Oil Company
VO-3361	Ugashik	57.056	157.663		84J-27A	Eocene	Tolstoi	0.47	Shell Oil Company
VO-3362	Ugashik	57.056	157.663		84J-27B	Eocene	Tolstoi	0.40	Shell Oil Company
VO-3363	Ugashik	57.056	157.663		84J-27C	Eocene	Tolstoi	0.56	Shell Oil Company
VO-3364	Ugashik	57.062	157.665		84J-3	Eocene	Tolstoi	0.46	Shell Oil Company
VO-3365	Ugashik	57.062	157.665		84J-4	Eocene	Tolstoi	0.49	Shell Oil Company
VO-3366	Ugashik	57.062	157.665		84J-5	Eocene	Tolstoi	0.39	Shell Oil Company
VO-3367	Ugashik	57.062	157.665		84J-6	Eocene	Tolstoi	0.38	Shell Oil Company
VO-3368	Ugashik	57.062	157.665		84J-7	Eocene	Tolstoi	0.57	Shell Oil Company
VO-3369	Ugashik	57.062	157.665		84J-8	Eocene	Tolstoi	0.56	Shell Oil Company
VO-3370	Ugashik	57.069	157.663		84J-28A	Eocene	Tolstoi	1.55	Shell Oil Company
VO-3371	Ugashik	57.102	153.162		73D-78	Eocene-Paleocene	Sitkilidak	0.88	Shell Oil Company
VO-3372	Ugashik	57.142	157.533		0043371	Tertiary		1.17	Chevron
VO-3373	Ugashik	57.158	157.665		0033935	Tertiary	Bearl	0.36	Chevron
VO-3374	Ugashik	57.158	157.665		0033940	Tertiary	Bearl	0.34	Chevron
VO-3917	Umiat	69.03157	150.88038		HOUSEKNECHT, DAVID - 98DH-77		Shale wall	0.74	USGS [Pawlewicz]
VO-3375	Umiat	69.03556	150.88528	305	78AAH 1 [Shale Wall]	Cretaceous	Shale Wall Mbr	0.46	PGS - Record # 502879500200000290
VO-3382	Umiat	69.04000	150.88750		78AAH 6 [Shale Wall]	Cretaceous		0.45	PGS - Record # 502879500200000260
VO-3381	Umiat	69.04306	150.88861		78AAH 10 [Shale Wall]	Cretaceous		0.45	PGS - Record # 502879500200000220
VO-3380	Umiat	69.05028	150.87917		78AAH 15 [Shale Wall]	Cretaceous		0.49	PGS - Record # 502879500200000180

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3379	Umiat	69.05444	150.87250		78AAH 19 [Shale Wall]	Cretaceous		0.55	PGS - Record # 502879500200000140
VO-3378	Umiat	69.05778	150.86750		78AAH 23 [Shale Wall]	Cretaceous		0.56	PGS - Record # 502879500200000100
VO-3377	Umiat	69.06250	150.85861		78AAH 27 [Shale Wall]	Cretaceous		0.45	PGS - Record # 502879500200000060
VO-3376	Umiat	69.07027	150.84583	244	78AAH 34 [Shale Wall]	Cretaceous	Aiyiak Mbr	0.47	PGS - Record # 502879500200000010
VO-3915	Umiat	69.12679	153.28367		HOUSEKNECHT, DAVID - 98DH-67		Ninuluk Bluff	0.64	USGS [Pawlewicz]
VO-3913	Umiat	69.14184	151.71617		HOUSEKNECHT, DAVID - 98DH-62		Chandler River 1	0.40	USGS [Pawlewicz]
VO-3383	Umiat	69.15639	151.01778	183	78ASG 54 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.45	PGS - Record # 502879500300000020
VO-3384	Umiat	69.15639	151.01778	183	78ASG 44 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.43	PGS - Record # 502879500300000050
VO-3385	Umiat	69.15639	151.01778	183	78ASG 38 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.47	PGS - Record # 502879500300000070
VO-3386	Umiat	69.15750	151.01778	183	78ASG 27 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.50	PGS - Record # 502879500300000100
VO-3387	Umiat	69.15972	151.01806	183	78ASG 19 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.52	PGS - Record # 502879500300000130
VO-3388	Umiat	69.16139	151.01972	183	78ASG 13 [Schrader Bluff]	Cretaceous	Schrader Bluff Fm	0.51	PGS - Record # 502879500300000150
VO-3911	Umiat	69.23193	151.40465		HOUSEKNECHT, DAVID - 98DH-53		Chandler River 1	0.53	USGS [Pawlewicz]
VO-3912	Umiat	69.23193	151.40465		HOUSEKNECHT, DAVID - 98DH-55		Chandler River 1	0.53	USGS [Pawlewicz]
VO-3389	Umiat	69.29944	152.73806		U-7SP12	U. Cretaceous	Colville Gp	0.68	Rao and Smith, 1983
VO-3390	Umiat	69.37916	152.52499	213	UMIAT 9 CORE 1	Cretaceous	Shale Wall Mbr	0.51	PGS - Record # 502879500100000010
VO-3916	Umiat	69.40512	151.87873		HOUSEKNECHT, DAVID - 98DH-72		Shivagak West	0.52	USGS [Pawlewicz]
VO-3391	Umiat	69.40806	151.84139		88POS38A	Cretaceous	Schrader Bluff Fm	0.31	Robinson, 1989
VO-3392	Umiat	69.42583	151.61806		88MR8A	Cretaceous	Schrader Bluff Fm	0.37	Robinson, 1989
VO-3393	Umiat	69.43056	151.72667		88POS39B	Cretaceous	Schrader Bluff Fm	0.45	Robinson, 1989
VO-3394	Umiat	69.50000	151.49028		88POS40L	Cretaceous	Prince Creek Fm	0.37	Robinson, 1989
VO-3395	Umiat	69.50444	151.48083		88MR5A	Cretaceous	Prince Creek Fm	0.39	Robinson, 1989
VO-3396	Umiat	69.63250	151.45500		88MR6B	Cretaceous	Prince Creek Fm	0.37	Robinson, 1989
VO-3397	Umiat	69.99444	151.60833		88MR7B	Cretaceous	Prince Creek Fm	0.40	Robinson, 1989
VO-3398	Unalakleet	63.01917	161.13306	701	86APa29B	U. Cretaceous		3.32	USGS [Pawlewicz]
VO-3399	Unalakleet	63.02222	161.85056	489	86APa47	U. Cretaceous		1.26	USGS [Pawlewicz]
VO-3400	Unalakleet	63.03611	161.55833	385	86ML15	U. Cretaceous		2.27	USGS [Pawlewicz]
VO-3401	Unalakleet	63.04500	161.58333	381	86APa40	U. Cretaceous		1.92	USGS [Pawlewicz]
VO-3402	Unalakleet	63.04889	161.23889	808	86ML8D	U. Cretaceous		2.66	USGS [Pawlewicz]
VO-3403	Unalakleet	63.04889	161.23889	808	86ML8E	U. Cretaceous		1.33	USGS [Pawlewicz]
VO-3404	Unalakleet	63.10361	161.74167	351	86APa42	U. Cretaceous		1.98	USGS [Pawlewicz]
VO-3405	Unalakleet	63.10833	161.69444	305	86APa41	U. Cretaceous		1.87	USGS [Pawlewicz]
VO-3406	Unalakleet	63.14389	160.44750	152	86APa24	L. Cretaceous		1.18	USGS [Pawlewicz]
VO-3407	Unalakleet	63.378	159.578		74F87	Cretaceous		0.75	Shell Oil Company
VO-3408	Unalakleet	63.608	160.950		22	Tertiary		2.00	Fisher, 1982
VO-3409	Unalakleet	63.650	160.900		21	Tertiary		1.88	Fisher, 1982
VO-3410	Unalakleet	63.650	160.900		21	Tertiary		2.01	Fisher, 1982
VO-3411	Unalakleet	63.675	160.700		13	Tertiary		0.32	Fisher, 1982
VO-3412	Unalakleet	63.694	160.858		81-F-22	Cretaceous		2.08	Shell Oil Company
VO-3413	Unalakleet	63.700	160.833		20	Tertiary		2.24	Fisher, 1982
VO-3414	Unalakleet	63.723	160.742		81-F-23-C	Tertiary		0.32	Shell Oil Company
VO-3415	Unalakleet	63.723	160.742		81-F-23-F	Tertiary		0.40	Shell Oil Company
VO-3416	Unalakleet	63.723	160.742		81-F-23-G	Tertiary		0.23	Shell Oil Company
VO-3417	Unalakleet	63.725	160.800		12	Tertiary		0.31	Fisher, 1982
VO-3418	Unalakleet	63.750	160.783		74F-106 (chunky)	Tertiary		0.31	Shell Oil Company
VO-3419	Unalakleet	63.750	160.783		74F-106 (platy)	Tertiary		0.26	Shell Oil Company
VO-3420	Unalakleet	63.755	160.760		81-F-20-1	Early Tertiary		0.35	Shell Oil Company
VO-3421	Unalakleet	63.755	160.760		81-F-20-2	Early Tertiary		0.20	Shell Oil Company
VO-3422	Unalakleet	63.755	160.760		81-F-20-3	Early Tertiary		0.17	Shell Oil Company
VO-3423	Unalakleet	63.755	160.760		81-F-20-5	Early Tertiary		0.32	Shell Oil Company
VO-3424	Unalakleet	63.755	160.760		81-F-20-6	Early Tertiary		0.36	Shell Oil Company
VO-3425	Unalakleet	63.755	160.760		81-F-20-7	Early Tertiary		0.36	Shell Oil Company
VO-3426	Unalakleet	63.755	160.760		81-F-20-8	Early Tertiary		0.34	Shell Oil Company

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3943	Utukok River	69.02717	161.95632		BIRD, KEN - 98WKW-34A		Kokolik River	0.94	USGS [Pawlewicz]
VO-3929	Utukok River	69.06013	161.95339		BIRD, KEN - 98TM-405B		Blizzard anticline	0.92	USGS [Pawlewicz]
VO-3427	Utukok River	69.07167	161.46222		G78-97	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3428	Utukok River	69.07167	161.46222		G78-99	Cretaceous	Nanushuk Gp	0.84	Rao and Smith, 1983
VO-3429	Utukok River	69.07500	161.29889		R5SP601	Cretaceous	Nanushuk Gp	0.85	Rao and Smith, 1983
VO-3430	Utukok River	69.08389	161.29250		R5SP605	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3431	Utukok River	69.09750	161.42444		G78-58	Cretaceous	Nanushuk Gp	0.89	Rao and Smith, 1983
VO-3432	Utukok River	69.09972	161.33972		G78-93	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3433	Utukok River	69.09972	161.38056		G78-89	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3434	Utukok River	69.10083	161.50306		G78-84	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3435	Utukok River	69.10194	161.57556		133XSP432	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3445	Utukok River	69.10639	161.57556		133XSP431	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3436	Utukok River	69.10667	161.42167	579	77ACH172 [Kokolik warps]	Cretaceous	Corwin Fm	0.68	PGS - Record # 50297950020000010
VO-3446	Utukok River	69.10972	161.40250		F45-79	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3447	Utukok River	69.11306	161.42139		G78-37	Cretaceous	Nanushuk Gp	0.83	Rao and Smith, 1983
VO-3448	Utukok River	69.11306	161.42139		G78-40	Cretaceous	Nanushuk Gp	0.82	Rao and Smith, 1983
VO-3449	Utukok River	69.11306	161.42139		G78-41	Cretaceous	Nanushuk Gp	0.90	Rao and Smith, 1983
VO-3450	Utukok River	69.11417	161.54722		G78-80	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3451	Utukok River	69.11528	161.46861		G78-43	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-3452	Utukok River	69.11528	161.50639		G78-94	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3437	Utukok River	69.11667	161.42667	579	77ACH169 [Kokolik warps]	Cretaceous	Corwin Fm	0.64	PGS - Record # 50297950020000030
VO-3453	Utukok River	69.12333	161.37083		F47-79	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-3454	Utukok River	69.12500	159.60833	488	77AAH18 [Lookout Ridge syncline]	Cretaceous	Corwin Fm	0.62	PGS - Record # 50297950050000010
VO-3459	Utukok River	69.12667	161.41806		G78-55	Cretaceous	Nanushuk Gp	0.83	Rao and Smith, 1983
VO-3455	Utukok River	69.13194	159.66528		77AAH13 [Lookout Ridge syncline]			0.64	PGS - Record # 50297950050000040
VO-3438	Utukok River	69.13806	161.42306	579	77ACH156 [Kokolik warps]	Cretaceous	Corwin Fm	0.67	PGS - Record # 50297950020000040
VO-3456	Utukok River	69.13889	159.67778		77AAH9 [Lookout Ridge syncline]			0.62	PGS - Record # 50297950050000050
VO-3463	Utukok River	69.14028	161.88417	366	77AJF 20 [E Archimedes Ridge]	Cretaceous	Corwin Fm	0.64	PGS - Record # 50297950010000010
VO-3457	Utukok River	69.14111	159.68056		77AAH8 [Lookout Ridge syncline]			0.53	PGS - Record # 50297950050000060
VO-3458	Utukok River	69.14306	159.68889		77AAH6 [Lookout Ridge syncline]			0.62	PGS - Record # 50297950050000080
VO-3439	Utukok River	69.14306	161.42417	579	77ACH154 [Kokolik warps]	Cretaceous	Corwin Fm	0.70	PGS - Record # 50297950020000060
VO-3464	Utukok River	69.14306	161.88500		77AJF 17 [E Archimedes Ridge]			0.63	PGS - Record # 50297950020000030
VO-3469	Utukok River	69.14444	159.69167	396	77AAH1 [Lookout Ridge syncline]	Cretaceous	Torok Fm	0.57	PGS - Record # 502979500500000110
VO-3470	Utukok River	69.14889	160.73333		137XSP656	Cretaceous	Nanushuk Gp	0.84	Rao and Smith, 1983
VO-3440	Utukok River	69.14944	161.41667	579	77ACH153 [Kokolik warps]	Cretaceous	Corwin Fm	0.77	PGS - Record # 50297950020000070
VO-3465	Utukok River	69.15278	161.88083		77AJF 9 [E Archimedes Ridge]			0.70	PGS - Record # 50297950010000050
VO-3441	Utukok River	69.15500	161.41639	579	77ACH150 [Kokolik warps]	Cretaceous	Corwin Fm	0.80	PGS - Record # 50297950020000080
VO-3466	Utukok River	69.15917	161.88278		77AJF 8 [E Archimedes Ridge]			0.87	PGS - Record # 50297950010000060
VO-3442	Utukok River	69.15944	161.41611	579	77ACH149 [Kokolik warps]	Cretaceous	Corwin Fm	0.72	PGS - Record # 50297950020000090
VO-3467	Utukok River	69.16111	161.88333		77AJF 6 [E Archimedes Ridge]			0.89	PGS - Record # 50297950010000070
VO-3443	Utukok River	69.16167	161.41583	579	77ACH148 [Kokolik warps]	Cretaceous	Corwin Fm	0.68	PGS - Record # 502979500200000100
VO-3460	Utukok River	69.16194	160.55167		77AAH13 [Folsom Point syncline]			0.63	PGS - Record # 50297950030000030
VO-3444	Utukok River	69.16250	161.58472	579	77ACH142 [Kokolik warps]	Cretaceous	Corwin Fm	0.77	PGS - Record # 502979500200000110
VO-3471	Utukok River	69.16500	161.58472	305	77ACH141 [Kokolik warps]	Cretaceous	Torok Fm	0.82	PGS - Record # 502979500200000120
VO-3461	Utukok River	69.16833	160.64389		77AAH8 [Folsom Point syncline]			0.82	PGS - Record # 50297950030000050
VO-3468	Utukok River	69.16972	161.88444		77AJF 3 [E Archimedes Ridge]			0.96	PGS - Record # 50297950010000080
VO-3472	Utukok River	69.17306	161.88500	213	77AJF 1 [E Archimedes Ridge]	Cretaceous	Torok Fm	0.94	PGS - Record # 502979500100000100
VO-3473	Utukok River	69.17472	160.72722		137XSP666	Cretaceous	Nanushuk Gp	0.96	Rao and Smith, 1983
VO-3462	Utukok River	69.17528	160.64444		77AAH4 [Folsom Point syncline]			0.83	PGS - Record # 50297950030000080
VO-3474	Utukok River	69.17861	160.64111	366	77AAH1 [Folsom Point syncline]	Cretaceous	Torok Fm	0.88	PGS - Record # 50297950030000090
VO-3928	Utukok River	69.19860	161.98376		BIRD, KEN - 98TM-403A		Archimedes ridge	1.05	USGS [Pawlewicz]
VO-3937	Utukok River	69.19860	161.98376		BIRD, KEN - 98CP-A10		Archimedes ridge	1.15	USGS [Pawlewicz]
VO-3942	Utukok River	69.20763	161.96665		BIRD, KEN - 98WKW-32A		Kokolik River	1.10	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3927	Utukok River	69.21510	161.92735		BIRD, KEN - 98TM-402B		Archimedes ridge	1.00	USGS [Pawlewicz]
VO-3475	Utukok River	69.24722	159.49722	244	77ACH205 [Carbon Ck anticline]	Cretaceous	Corwin Fm	0.80	PGS - Record # 502979500400000010
VO-3476	Utukok River	69.25000	159.49639		77ACH204 [Carbon Ck anticline]			0.70	PGS - Record # 502979500400000020
VO-3477	Utukok River	69.25417	159.49583		77ACH201 [Carbon Ck anticline]			0.72	PGS - Record # 502979500400000040
VO-3478	Utukok River	69.26111	159.54722		77ACH197 [Carbon Ck anticline]			0.73	PGS - Record # 502979500400000080
VO-3483	Utukok River	69.26222	160.59194		137XSP736	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3479	Utukok River	69.26250	159.54444		77ACH196 [Carbon Ck anticline]			0.65	PGS - Record # 502979500400000090
VO-3484	Utukok River	69.26556	160.58556		137XSP737	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3480	Utukok River	69.26639	159.53889		77ACH194 [Carbon Ck anticline]			0.70	PGS - Record # 502979500400000110
VO-3481	Utukok River	69.27222	159.53250		77ACH192 [Carbon Ck anticline]			0.69	PGS - Record # 502979500400000130
VO-3485	Utukok River	69.28111	160.57611		AH34-78	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3486	Utukok River	69.28806	159.01278		603SP211	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3487	Utukok River	69.28806	161.17444		AH6-79	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3482	Utukok River	69.28972	159.52222		77ACH184 [Carbon Ck anticline]			0.51	PGS - Record # 502979500400000210
VO-3488	Utukok River	69.29500	161.10778		AH7-79	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3489	Utukok River	69.29722	159.51111	152	77ACH180 [Carbon Ck anticline]	Cretaceous	Torok Fm	0.72	PGS - Record # 502979500400000250
VO-3490	Utukok River	69.29722	161.18083		AH5-79	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3491	Utukok River	69.30389	159.14278		603SP232	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3492	Utukok River	69.30583	160.48417		137XSP768	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3493	Utukok River	69.30917	160.48083		137XSP767	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3494	Utukok River	69.31611	160.24278		F75-79	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3495	Utukok River	69.31722	161.15250		AH4-79	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3496	Utukok River	69.32500	161.95444		F20-79	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3497	Utukok River	69.33528	159.36000		603SP267	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3498	Utukok River	69.33611	160.46833		137XSP771	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3499	Utukok River	69.33611	160.50000		AH37-78V	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3500	Utukok River	69.33611	160.50000		AH37-78L	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-3501	Utukok River	69.33611	160.50000		AH43-78	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3502	Utukok River	69.33722	160.42694		605SP307	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3503	Utukok River	69.33944	160.56361		137XSP742	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-3504	Utukok River	69.34528	160.45861		137XSP773	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3505	Utukok River	69.34528	160.55722		137XSP744	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3506	Utukok River	69.34861	160.55083		137XSP745	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3507	Utukok River	69.35083	160.55083		137XSP748	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3508	Utukok River	69.35194	160.58917		605SP327	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3509	Utukok River	69.35194	160.58917		605SP328	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3510	Utukok River	69.35194	160.58917		605SP329	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3511	Utukok River	69.35194	160.58917		605SP330	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3512	Utukok River	69.35194	160.58917		605SP331	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3513	Utukok River	69.35194	160.58917		605SP332	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3514	Utukok River	69.35417	160.54444		137XSP749	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3515	Utukok River	69.35417	160.63694		605SP336	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3516	Utukok River	69.35417	160.63694		605SP337	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3517	Utukok River	69.35417	160.63694		605SP338	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3518	Utukok River	69.35417	160.63694		605SP339	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3519	Utukok River	69.35417	160.63694		605SP340	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3520	Utukok River	69.35417	160.66222		605SP342	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3521	Utukok River	69.35639	160.30917		AH38-79	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3522	Utukok River	69.35750	160.70361		605SP347	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3523	Utukok River	69.35861	160.54139		137XSP753	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3524	Utukok River	69.35889	161.42361		AH3-78	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3525	Utukok River	69.36083	160.41722		AH48-78	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3526	Utukok River	69.36083	160.53500		137XSP754	Cretaceous	Nanushuk Gp	0.66	Rao and Smith, 1983

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3527	Utukok River	69.36111	161.20056		R5XNSP462	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3528	Utukok River	69.36111	161.25806		AH19-78	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3529	Utukok River	69.36111	161.46806		UA126	Cretaceous	Nanushuk Gp	0.96	Rao and Smith, 1983
VO-3530	Utukok River	69.36111	161.51278		605SP465	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3531	Utukok River	69.36111	161.52556		605SP467	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3532	Utukok River	69.36111	161.54444		605SP471	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3533	Utukok River	69.36111	161.55083		605SP472	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3534	Utukok River	69.36222	161.43000		605SP454	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3535	Utukok River	69.36222	161.47444		605SP461	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3536	Utukok River	69.36333	161.33444		605SP439	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3537	Utukok River	69.36333	161.36306		605SP442	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3538	Utukok River	69.36333	161.43944		605SP455	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3539	Utukok River	69.36333	161.45556		605SP457	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3540	Utukok River	69.36417	160.35667		734SP216	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3541	Utukok River	69.36417	160.77056		632SP300	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3542	Utukok River	69.36444	161.02556		605SP393	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-3543	Utukok River	69.36444	161.29000		605SP434	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3544	Utukok River	69.36444	161.29944		605SP435	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3545	Utukok River	69.36444	161.38528		605SP447	Cretaceous	Nanushuk Gp	0.82	Rao and Smith, 1983
VO-3546	Utukok River	69.36444	161.39806		605SP448	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3547	Utukok River	69.36528	160.52861		137XSP755	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3548	Utukok River	69.36556	161.07333		605SP402	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3549	Utukok River	69.36556	161.24528		605SP428	Cretaceous	Nanushuk Gp	0.81	Rao and Smith, 1983
VO-3550	Utukok River	69.36556	161.27083		605SP431	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3551	Utukok River	69.36972	160.50944		AH26-79	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3552	Utukok River	69.36972	160.51583		137XSP757	Cretaceous	Nanushuk Gp	0.66	Rao and Smith, 1983
VO-3553	Utukok River	69.37000	161.20389		R5XNSP458	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3554	Utukok River	69.37333	160.51278		137XSP758	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3555	Utukok River	69.37333	161.02556		AH22-78	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-3556	Utukok River	69.37333	161.20389		R5XNSP457	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3557	Utukok River	69.37444	161.26111		AH18-78	Cretaceous	Nanushuk Gp	0.59	Rao and Smith, 1983
VO-3558	Utukok River	69.37556	161.38861		AH4-78	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3559	Utukok River	69.37667	159.83444		F73-79	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3560	Utukok River	69.37667	160.50639		AH25-79	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3561	Utukok River	69.38111	160.76111		632SP307	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3562	Utukok River	69.38139	161.24861		AH1-79	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3563	Utukok River	69.38444	159.78972		R4SP21	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3564	Utukok River	69.38778	160.49056		137XSP765	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3565	Utukok River	69.38917	161.07000		AH21-78	Cretaceous	Nanushuk Gp	0.57	Rao and Smith, 1983
VO-3566	Utukok River	69.38917	161.11472		AH23-78	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3567	Utukok River	69.38917	161.20722		R5XNSP450	Cretaceous	Nanushuk Gp	0.81	Rao and Smith, 1983
VO-3568	Utukok River	69.38917	161.25778		AH16-78	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3569	Utukok River	69.39889	160.51917		AH56-78	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3570	Utukok River	69.40361	161.04472		AH25-78	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3571	Utukok River	69.40472	160.49694		137XSP764	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-3572	Utukok River	69.40472	160.60833		AH10-79	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3573	Utukok River	69.40583	161.28944		AH12-78	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3574	Utukok River	69.40694	160.45528		137XSP775	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3575	Utukok River	69.40806	160.38528		AH22-79	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3576	Utukok River	69.40806	160.44250		AH16-79	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3577	Utukok River	69.40806	160.72972		AH8-79	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3578	Utukok River	69.41139	160.44889		137XSP777	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3579	Utukok River	69.41361	160.49694		AH13-79	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3580	Utukok River	69.41583	160.44889		AH15-79	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3581	Utukok River	69.41694	160.73611		632SP321	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3582	Utukok River	69.41833	161.20417		A78-14	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3583	Utukok River	69.42056	161.12444		A78-15	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3584	Utukok River	69.42139	160.73306		632SP322	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3585	Utukok River	69.42583	160.73306		632SP324	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3586	Utukok River	69.42694	159.58611		725SP342	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3587	Utukok River	69.42833	159.74139		R4SP2	Cretaceous	Nanushuk Gp	0.84	Rao and Smith, 1983
VO-3588	Utukok River	69.42833	160.21889		UA125	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3589	Utukok River	69.42833	161.83194		630SP471	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3590	Utukok River	69.43389	160.21889		78-35	Cretaceous	Nanushuk Gp	0.85	Rao and Smith, 1983
VO-3591	Utukok River	69.44056	161.90889		F12-79	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3592	Utukok River	69.44500	160.55111		AH63-78	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3593	Utukok River	69.44611	160.51917		AH61-78V	Cretaceous	Nanushuk Gp	0.81	Rao and Smith, 1983
VO-3594	Utukok River	69.44611	160.51917		AH61-78L	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3595	Utukok River	69.45278	160.32417		AH36-79	Cretaceous	Nanushuk Gp	0.84	Rao and Smith, 1983
VO-3596	Utukok River	69.45500	160.32111		AH35-79	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3597	Utukok River	69.45750	160.31778		AH34-79	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3598	Utukok River	69.46194	160.35917		137XSP802	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3599	Utukok River	69.46194	160.72056		632SP340	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3600	Utukok River	69.46528	160.71750		632SP341	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3601	Utukok River	69.46639	160.69500		AH60-78	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3602	Utukok River	69.46750	160.35278		137XSP804	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3603	Utukok River	69.46972	160.71750		632SP342	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3604	Utukok River	69.47528	160.32722		AH37-79	Cretaceous	Nanushuk Gp	0.82	Rao and Smith, 1983
VO-3605	Utukok River	69.47528	160.34000		137XSP808	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3606	Utukok River	69.48667	161.83944		630SP444	Cretaceous	Nanushuk Gp	0.72	Rao and Smith, 1983
VO-3607	Utukok River	69.49333	161.83944		630SP441	Cretaceous	Nanushuk Gp	0.68	Rao and Smith, 1983
VO-3608	Utukok River	69.50000	160.02250		725SP271	Cretaceous	Nanushuk Gp	0.75	Rao and Smith, 1983
VO-3609	Utukok River	69.51583	161.23083		R5XNSP394	Cretaceous	Nanushuk Gp	0.80	Rao and Smith, 1983
VO-3610	Utukok River	69.51917	160.69556		632SP369	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3611	Utukok River	69.52250	159.13472		R3XNSP449	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3612	Utukok River	69.52472	160.69556		632SP370	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3613	Utukok River	69.53250	159.58667		723SP204	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3614	Utukok River	69.53361	161.23361		R5XNSP384	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3615	Utukok River	69.53472	159.12833		R3XNSP443	Cretaceous	Nanushuk Gp	0.81	Rao and Smith, 1983
VO-3616	Utukok River	69.53806	160.26889		725SP230	Cretaceous	Nanushuk Gp	0.74	Rao and Smith, 1983
VO-3617	Utukok River	69.54833	160.31694		725SP222	Cretaceous	Nanushuk Gp	0.76	Rao and Smith, 1983
VO-3618	Utukok River	69.55389	160.34250		725SP219	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3619	Utukok River	69.55389	160.67972		632SP383	Cretaceous	Nanushuk Gp	0.84	Rao and Smith, 1983
VO-3620	Utukok River	69.55611	160.36194		725SP216	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3621	Utukok River	69.55944	160.68000		632SP386	Cretaceous	Nanushuk Gp	0.85	Rao and Smith, 1983
VO-3622	Utukok River	69.56278	161.84056		630SP413	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3623	Utukok River	69.56389	160.42611		725SP206	Cretaceous	Nanushuk Gp	0.71	Rao and Smith, 1983
VO-3624	Utukok River	69.57056	160.67361		632SP392	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-3625	Utukok River	69.57972	160.18972		723SP114	Cretaceous	Nanushuk Gp	0.89	Rao and Smith, 1983
VO-3626	Utukok River	69.58417	160.28778		137XSP24	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3627	Utukok River	69.58972	161.24250		R5XNSP368	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3628	Utukok River	69.59194	160.67361		725SP169	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3629	Utukok River	69.59861	160.67056		632SP400	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3630	Utukok River	69.60333	160.66750		632SP402	Cretaceous	Nanushuk Gp	0.73	Rao and Smith, 1983
VO-3631	Utukok River	69.60667	161.24556		R5XNSP359	Cretaceous	Nanushuk Gp	0.79	Rao and Smith, 1983
VO-3632	Utukok River	69.62000	161.24556		R5XNSP354	Cretaceous	Nanushuk Gp	0.83	Rao and Smith, 1983

Vitrinite Reflectance Data from Alaskan Outcrops

Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3633	Utukok River	69.64139	161.01611		725SP135	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3634	Utukok River	69.64250	161.24194		R5XNSP340	Cretaceous	Nanushuk Gp	0.86	Rao and Smith, 1983
VO-3635	Utukok River	69.64556	160.66139		632SP422	Cretaceous	Nanushuk Gp	0.77	Rao and Smith, 1983
VO-3636	Utukok River	69.64583	159.07083		R3XNSP397	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-3637	Utukok River	69.64583	161.03556		725SP131	Cretaceous	Nanushuk Gp	0.66	Rao and Smith, 1983
VO-3638	Utukok River	69.66167	159.06139		R3XNSP390	Cretaceous	Nanushuk Gp	0.65	Rao and Smith, 1983
VO-3639	Utukok River	69.67583	160.64861		632SP436	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-3640	Utukok River	69.69167	160.63889		632SP440	Cretaceous	Nanushuk Gp	0.70	Rao and Smith, 1983
VO-3641	Utukok River	69.69944	160.63583		632SP442	Cretaceous	Nanushuk Gp	0.69	Rao and Smith, 1983
VO-3642	Utukok River	69.69972	161.19278		725SP81	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3643	Utukok River	69.70417	161.21528		725SP77	Cretaceous	Nanushuk Gp	0.64	Rao and Smith, 1983
VO-3644	Utukok River	69.71083	160.62944		632SP447	Cretaceous	Nanushuk Gp	0.67	Rao and Smith, 1983
VO-3645	Utukok River	69.71306	161.26694		725SP69	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3646	Utukok River	69.71667	161.28000		725SP66	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3647	Utukok River	69.72111	161.29917		725SP63	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3648	Utukok River	69.74583	161.40917		725SP45	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3649	Utukok River	69.75000	160.62639		632SP467	Cretaceous	Nanushuk Gp	0.61	Rao and Smith, 1983
VO-3650	Utukok River	69.79028	160.61694		632SP480	Cretaceous	Nanushuk Gp	0.78	Rao and Smith, 1983
VO-3651	Wainwright	70.00889	160.45417		703SP98	Cretaceous	Nanushuk Gp	0.52	Rao and Smith, 1983
VO-3652	Wainwright	70.02028	160.33583		703SP119	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3653	Wainwright	70.02917	160.68389		712SP27	Cretaceous	Nanushuk Gp	0.57	Rao and Smith, 1983
VO-3654	Wainwright	70.03361	159.30611		602SP152	Cretaceous	Nanushuk Gp	0.58	Rao and Smith, 1983
VO-3655	Wainwright	70.03583	160.25361		703SP110	Cretaceous	Nanushuk Gp	0.55	Rao and Smith, 1983
VO-3656	Wainwright	70.04028	160.22389		703SP122	Cretaceous	Nanushuk Gp	0.54	Rao and Smith, 1983
VO-3657	Wainwright	70.04500	160.19417		703SP125	Cretaceous	Nanushuk Gp	0.60	Rao and Smith, 1983
VO-3658	Wainwright	70.07972	160.86889		710SP 3	Cretaceous	Nanushuk Gp	0.51	Rao and Smith, 1983
VO-3659	Wainwright	70.08417	160.73389		712SP11	Cretaceous	Nanushuk Gp	0.57	Rao and Smith, 1983
VO-3660	Wainwright	70.10333	160.62528		D4X2SP26	Cretaceous	Nanushuk Gp	0.52	Rao and Smith, 1983
VO-3661	Wainwright	70.11222	160.75389		712SP3	Cretaceous	Nanushuk Gp	0.54	Rao and Smith, 1983
VO-3662	Wainwright	70.11556	160.76056		712SP1	Cretaceous	Nanushuk Gp	0.63	Rao and Smith, 1983
VO-3663	Wainwright	70.14139	160.56611		D4XWSP29	Cretaceous	Nanushuk Gp	0.52	Rao and Smith, 1983
VO-3664	Wiseman	67.04028	150.30028	533	MJ90-B15b	L. Cretaceous	KSc map unit	4.87	USGS [Pawlewicz]
VO-3665	Wiseman	67.051	150.897		74F-278A	Cretaceous		1.62	Shell Oil Company
VO-3666	Wiseman	67.052	152.155		74F272	Cretaceous		0.64	Shell Oil Company
VO-3667	Wiseman	67.08917	150.49750	274	88SAS 016.1	L. Cretaceous		0.46	USGS [Pawlewicz]
VO-3668	Wiseman	67.092	150.932		74F-272A	Cretaceous		0.89	Shell Oil Company
VO-3669	Wiseman	67.092	150.932		74F-277B	Cretaceous		1.31	Shell Oil Company
VO-3670	Wiseman	67.09833	150.48250	290	88SAS 013.1	L. Cretaceous		0.48	USGS [Pawlewicz]
VO-3671	Wiseman	67.10583	150.47300	296	88SAS 010.1	U. Cretaceous		0.53	USGS [Pawlewicz]
VO-3672	Wiseman	67.10583	150.47300	296	88SAS 010.3	U. Cretaceous		0.53	USGS [Pawlewicz]
VO-3673	Wiseman	67.10583	150.47300	296	88SAS 011.1	U. Cretaceous		0.59	USGS [Pawlewicz]
VO-3674	Wiseman	67.10800	150.45833	297	88SAS 07.1	U. Cretaceous		0.55	USGS [Pawlewicz]
VO-3675	Wiseman	67.10800	150.45833	297	88SAS 07.4	U. Cretaceous		0.56	USGS [Pawlewicz]
VO-3676	Wiseman	67.10800	150.45833	297	88SAS 07.8	U. Cretaceous		0.57	USGS [Pawlewicz]
VO-3677	Wiseman	67.108	150.459		UA 117	U. Cretaceous		0.52	Shell Oil Company
VO-3678	Wiseman	67.11500	150.42333	305	88SAS 01.1	U. Cretaceous		0.62	USGS [Pawlewicz]
VO-3679	Wiseman	67.11500	150.42333	305	88SAS 01.2	U. Cretaceous		0.51	USGS [Pawlewicz]
VO-3680	Wiseman	67.11500	150.42333	305	88SAS 01.3	U. Cretaceous		0.50	USGS [Pawlewicz]
VO-3681	Wiseman	67.11667	150.44667	297	88SAS 02.1	U. Cretaceous		0.50	USGS [Pawlewicz]
VO-3682	Wiseman	67.11667	150.44667	297	88SAS 02.2	U. Cretaceous		0.52	USGS [Pawlewicz]
VO-3683	Wiseman	67.11667	150.44667	297	88SAS 02.4	U. Cretaceous		0.56	USGS [Pawlewicz]
VO-3684	Wiseman	67.11667	150.44667	297	88SAS 02.5	U. Cretaceous		0.50	USGS [Pawlewicz]
VO-3685	Wiseman	67.11667	150.44667	297	88SAS 02.7	U. Cretaceous		0.49	USGS [Pawlewicz]

Vitrinite Reflectance Data from Alaskan Outcrops									
Record No.	Quadrangle	North Latitude	West Longitude	Elev (m)	Sample Description	Stratigraphic Age	Rock Unit	Mean Ro (%)	Source of Data
VO-3686	Wiseman	67.11667	150.44667	297	88SAS 03.1	U. Cretaceous		0.54	USGS [Pawlewicz]
VO-3687	Wiseman	67.11667	150.44667	297	88SAS 03.2	U. Cretaceous		0.61	USGS [Pawlewicz]
VO-3688	Wiseman	67.11667	150.44667	297	88SAS 03.3	U. Cretaceous		0.58	USGS [Pawlewicz]
VO-3689	Wiseman	67.119	150.445		74F279	Cretaceous		0.42	Shell Oil Company
VO-3690	Wiseman	67.16388	151.37361	305	81ABE 85A	Devonian		4.17	PGS - Record # 503039500500000010
VO-3691	Wiseman	67.91111	152.05555	1524	81ABE 6-B	Devonian-Mississippian	Noatak Ss	4.84	PGS - Record # 503039500400000010
VO-3692	Wiseman	67.97083	152.34027	1433	78ABE 225C	Devonian	Hunt Fork Sh	4.48	PGS - Record # 503039500100000010
VO-3693	Wiseman	67.99583	152.77416	1448	78ABE 239B	Mississippian	Kayak Sh	3.86	PGS - Record # 503039500200000010
VO-3694	Yakutat	59.345	138.760		71F-14	Cretaceous	Yakutat	3.30	Shell Oil Company
VO-3695	Yakutat	59.620	139.295		71F-7A	Cretaceous	Yakutat	1.98	Shell Oil Company
VO-3696	Yakutat	59.720	139.257		68APR-34A2	Cretaceous	Yakutat	0.61	Shell Oil Company
VO-3697	Yakutat	59.728	139.508		71F-21A	Cretaceous	Yakutat	2.57	Shell Oil Company
VO-3698	Yakutat	59.735	139.315		80R-36A	Cretaceous	Yakutat	1.55	Shell Oil Company
VO-3699	Yakutat	59.735	139.315		80R-36B	Cretaceous	Yakutat	1.47	Shell Oil Company
VO-3700	Yakutat	59.735	139.315		80R-36C	Cretaceous	Yakutat	1.35	Shell Oil Company
VO-3701	Yakutat	59.807	139.230		80R-27A	Cretaceous	Yakutat	1.73	Shell Oil Company
VO-3702	Yakutat	59.935	139.803		71F-158E	Eocene	Kulthieth	0.39	Shell Oil Company
VO-3703	Yakutat	59.935	139.803		71F-158G	Eocene	Kulthieth	0.38	Shell Oil Company
VO-3704	Yakutat	59.935	139.803		158E	Eocene	Kulthieth	0.39	Shell Oil Company
VO-3705	Yakutat	59.935	139.803		158G	Eocene	Kulthieth	0.37	Shell Oil Company
VO-3706	Yakutat	59.935	139.803		41+3-6	Eocene	Kulthieth	0.34	Shell Oil Company
VO-3707	Yakutat	59.935	139.803		42+0	Eocene	Kulthieth	0.35	Shell Oil Company
VO-3708	Yakutat	59.935	139.803		43+0 0-4	Eocene	Kulthieth	0.43	Shell Oil Company
VO-3709	Yakutat	59.935	139.803		43+0 4-8	Eocene	Kulthieth	0.43	Shell Oil Company
VO-3710	Yakutat	59.935	139.803		25D	Eocene	Kulthieth	0.32	Shell Oil Company
VO-3711	Yakutat	59.935	139.803		25D (2)	Eocene	Kulthieth	0.30	Shell Oil Company
VO-3712	Yakutat	59.935	139.803		25E	Eocene	Kulthieth	0.26	Shell Oil Company
VO-3713	Yakutat	59.935	139.803		25G	Cretaceous	Yakutat	0.72	Shell Oil Company
VO-3714	Yakutat	59.978	139.458		68APR-29C1	Cretaceous	Yakutat	1.53	Shell Oil Company
VO-3715	Yakutat	59.993	139.480		71F-16A	Cretaceous	Yakutat	1.62	Shell Oil Company
VO-3716	Yakutat	59.993	139.480		80R-26A	Cretaceous	Yakutat	1.19	Shell Oil Company