Enclosure 6: Miscellaneous, sample registers, field notes, daily log, and radiometric dating laboratory reports, in Connelly, William, and Amoco Oil Co., Data compilation and preliminary summary of the 1977 Alaska Peninsula field project

Connelly, William, and Amoco Oil Co.

GMC DATA REPORT 461D

This GMC data report from the Amoco Heritage collection has been made available through funding from the FY2018 USGS National Geological and Geophysical Data Preservation Program, Grant Number G18AP00054. This project report is presented in its original format and has not been reviewed for technical content or for conformity to the editorial standards of DGGS. It should not be used or cited as reviewed data.

2019
State of Alaska
Department of Natural Resources
Division of Geological & Geophysical Surveys
GEOLOGIC MATERIALS CENTER

Enclosure 6
A. Sample registers
B. Field notes
C. Daily log
D. Radiometric rep

Amoco Production Company
Security Life Building
Denver, Colorado 80202

CLASS II MATERIA

Denver Region
Frontier Division

Geological Report FR-02-79

Enclosure 6 Miscellaneous

First Class Mail
Form 1070 2-71

CARLOS PIERCE AP-1000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
1000	PP	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Ss	Tachilni
1001	PF	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Fossil hash	Tachilni
1002	G	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
1003	G(MS)	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
1004	GP(MS)	Pevlof Volcano area	15-55S-84W	Cold Bay (B-1)	Andesite	Quat. Volc.
1005	GP(MS)	Pevlof Volcano area	16-54S-83W	Cold Bay (B-1)	Andesite	Quat. Volc.
1006	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1007	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1008	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1009	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1010	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1011	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1012	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1013	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1014	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1015	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1016	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1017	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1018	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1019	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1020	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1021	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1022	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1023	PF	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Sh	Unga Congl.
1024	L	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Ss	Unga Congl.
1025	PF	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Sh	Stepovak
1026	PP	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Ss	Stepovak
1027	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1028	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1029	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1030	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1031	F	Grab, Aliaskan Pen. (2 bags)	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1032	G	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive
1033	G(MS)	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive

BILL CONNELLY AP-2000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2000	PP	Grab, Korovin Island	21-55S-71W	Port Moller (B-1)	Ss	Tolstoi
2001	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2002	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2003	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2004	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2005	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2006	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2007	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2008	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2009	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2010	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2011	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2012	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2013	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2014	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Siltstn	Tolstoi
2015	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2016	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2017	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2018	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2019	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2020	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2021	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2022	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2023	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2024	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2025	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2026	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2027	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2028	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2029	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2030	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2031	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Sh	Tolstoi
2032	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Sh	Tolstoi
2033	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2034	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2035	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2036	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2037	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2038	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2039	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2040	F	Grab, Ridge W. of Bear Lake	17-49S-70W	Port Moller (D-1)	Fossil	Bear Lake
2041	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2042	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2043	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2044	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2045	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2046	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2047	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2048	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2049	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2050	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2051	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2052	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2053	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2054	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2055	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2056	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2057	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2058	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2059	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2060	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2061	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2062	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2063	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2064	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2065	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2066	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2067	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2068	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2069	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2070	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2071	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2072	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2073	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2074	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2075	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2076	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2077	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2078	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2079	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2080	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2081	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2082	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2083	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2084	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2085	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2086	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2087	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake
2088	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2089	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2090	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2091	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2092	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2093	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2094	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2095	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2096	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2097	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2098	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2099	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2100	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2101	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2102	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2103	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2104	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2105	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2106	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2107	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2108	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2109	L	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Bear Lake
2110	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Coal	Bear Lake
2111	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2112	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2113	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2114	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2115	PP	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Stepovak (?)
2116a	F	Grab, Cape Tachilni	5-61S-89W	False Pass (D-3)	Fossil	Tachilni
2116b	L	Grab, Milky River	35-48S-69W	Port Moller (D-1)	Copper ore (?)	Morain
2117	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
2118	PP	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Ss	Bear Lake (?)
2119	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
2120	L	Grab, Herendeen Bay	32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr.
2121	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2122	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2123	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2124	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2125	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2126	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2127	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Stepovak (?)
2128	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2129	PF	Milky River	26,27,34,35-28S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2130	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Sh	Tolstoi
2131	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2132	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2133	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2134	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2135	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2136	PP	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2137	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2138	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2139	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2140	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2141	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2142	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2143	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2144	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2145	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2146	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2147	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2148	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2149	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2150	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2151	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2152	C	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2153	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2154	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2155	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2156	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2157	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2158	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2159	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2160	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2161	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2162	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2163	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2164	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2165	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2166	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2167	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2168	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2169	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2170	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2171	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2172	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2173	C	Grab, Cub Lake Mt.	19-35S-51W	Ugashik (A-5)	Tuff	Meshik
2174	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2175	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2176	PF	Grab, SW of Cub Lake Mt.	3-36S-51W	Ugashik (A-5)	Siltstn	Eocene (?)
2177	MS	Grab, Aniakchak Volcano	9-38S-56W	Chignik (D-1)	Volcanic Rock	Quat. Volc.
2178	F	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Fossil	Naknek
2179	C	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Ss	Naknek
2180	MS	Grab, Mt. Chiginagak	15-35S-48W	Ugashik (A-3)	Andesite	Quat. Volc.
2181	G	Grab, Agripina Bay	30-35S-44W	Ugashik (A-2)	Granite	Eocene (?) intrusion
2182	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2183	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2184	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granite Cobble	Naknek (?)
2185	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2186	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2187	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2188	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2189	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2190	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2191	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2192	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granitic Cobble	Naknek (?)
2193	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2194	RP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2195	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2196	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2197	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2198	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2199	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Mudstn	Bear Lake
2200	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2201	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2202	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2203	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2204	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2205	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2206	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2207	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2208	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2209	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2210	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2211	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2212	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2213	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2214	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2215	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2216	W	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Water	Bear Lake
2217	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Carbon Sh	Eocene (?)

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2218	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coal	Eocene (?)
2219	MS	Grab, Purple Lake	6-42S-60W	Chignik (C-3)	Andesite	Quat. Volc.
2220	G	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Igneous	Eocene (?)
2221	MS	Grab, Veniaminof	13-45S-65W	Chignik (B-5)	Andesite	Quat. Volc.
2222	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2223	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2224	G	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2225	L	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2226	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
2227	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
2228	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2229	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2230	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2231	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2232	L	NE Veniaminof	6-45S-63W	Chignik (B-4)	Ss	Tachilni
2233	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2234	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2235	G	NE Veniaminof	6-45S-63W	Chignik (B-4)	Tuff	Tachilni
2236	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2237	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2238	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2239	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2240	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2241	PF	Windy Ridge	3,4,5,8,9,10,13 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2242	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2243	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2244	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coaly Sh	Eocene (?)
2245	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Eocene (?)
2246	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2247	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2248	G	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Tuff	Meshik
2249	G	Windy Mtn 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2250	G	Windy Mtn 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2251	PF	Windy Mtn 3022'	31-41S-59W	Chignik (C-2)	Siltstn	Tachilni
2252	PP	Kaguyak	3-19N-28W	Afognak (C-6)	Calc. Ss	Lower Cret. (?)
2253	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2254	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2255	PP	Kaguyak	34-18S-28W	Afognak (C-6)	Calc Ss	Cret.
2256	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Siltstn	Cret.
2257	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Claystn	Cret.
2258	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2259	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2260	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2261	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2262	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2263	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2264	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2265	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2266	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2267	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2268	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2269	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2270	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2271	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2272	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2273	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2274	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2275	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2276	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2277	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2278	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2279	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2280	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2281	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2282	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2283	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2284	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2285	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2286	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2287	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2288	F	Kaguyak	34-18S-28W	Afognak (C-6)	Fossils	Cret.
2289	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2290	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2291	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2292	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak

LEONID SMIRNOV AP-3000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3000	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3001	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3002	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3003	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3004	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3005	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3006	SR	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3007	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3008	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3009	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3010	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3011	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3012	PF	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3013	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3014	PP	SEaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3015	RP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3016	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3017	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3018	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3019	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3020	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3021	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3022	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3023	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3024	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3025	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3026	RP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3027	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3028	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3029	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Mudstn	Unga Congl.
3030	PP	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3031	PF	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.
3032	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.
3033	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3034	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3035	L	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Ss	Unga Congl.
3036	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3037	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3038	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3039	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3040	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3041	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3042	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3043	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3044	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.
3045	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3046	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.
3047	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 &B-4)	Sh	Stepovak
3048	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3049	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3050	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3051	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3052	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3053	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3054	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3055	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3056	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3057	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3058	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3059	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3060	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak

BA953

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3061	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3062	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3063	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3064	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3065	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3066	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3067	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3068	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3069	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3070	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3071	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3072	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3073	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3074	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3075	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3076	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3077	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3078	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3079	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3080	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3081	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3082	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3083	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3084	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3085	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3086	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3087	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3088	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3089	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3090	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3091	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3092	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3093	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3094	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3095	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3096	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3097	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3098	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3099	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3100	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3101	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3102	PP	Grab, W. of McGinty Pt	1-55S-77W	Port Moller (B-4)	Ss	Bear Lake
3103	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3104	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3105	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3106	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3107	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3108	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3109	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3110	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3111	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3112	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3113	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3114	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3115	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3116 (2 bags)	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3117-C	C	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3118	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3119	C	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Tuff	Tachilni
3120	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3121	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3122	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3123	SR	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3124	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3125	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3126	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3127	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3128	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3129	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3130	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Organic Sh	Tachilni
3131	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
3132	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
3133	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3134	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3135 (3 bags)	F	Bear Lake	29-49S-70W	Port Moller (D-1)	Ss	Bear Lake
3136	L	Grab, Mud Bay	19-50S-72W	Port Moller (D-2)	Copper Ore (?)	Tolstoi
3137	PP	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley mbr of Chignik Fm.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3138	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3139	SR	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3140	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3141	C	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3142	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3143	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3144	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3145	W	Grab, Hot Spring	11,12-50S-73W	Port Moller (D-2)	Water	NA
3146	W	Grab, Gas Spring	11,12-50S-74W	Port Moller (D-2)	Water	NA
3147	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3148	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3149	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3150	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3151	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katami (D-1)	Ss	Naknek
3152	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3153	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3154	PP	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Ss	Naknek
3155	PF	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek
3156	SR	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek

STEVE WILLIAMS AP-4000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4000	PP	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Ss	Belkofski
4001	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4002	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Coaly Sh	Belkofski
4003	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4004	SR	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4005	PF	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4006	SR	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4007	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4008	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4009	PP	Cape Tachilni	36-60S-90W	False Pass (D-3)	Ss	Tachilni
4010	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4011	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4012	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4013	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4014	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4015	PF	Grab, Cape Tachilni	35-60S-90W	False Pass (D-3)	Sh	Unknown
4016	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4017	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4018	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4019	F	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Fossil	Tolstoi
4020	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4021	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4022	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4023	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4024	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4025	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4026	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi
4027	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4028	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4029	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4030	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4031	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4032	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4033	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4034	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4035	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4036	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4037	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4038	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4039	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4040	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4041	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4042	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4043	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4044	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4045	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4046	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4047	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4048	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4049	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4050	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4051	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4052	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4053	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4054	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4055	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4056	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4057	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4058	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4059	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4060	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4061	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4062	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4063	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4064	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4065	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4066	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4067	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4068	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4069	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4070	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4071	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4072	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4073	G(MS)	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Dioritic	Stepovak
2074	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4075	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4076	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4077	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4078	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4079	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4080	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak
4081	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4082	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4083	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak
4084	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4085	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4086	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4087	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4088	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4089	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4090	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4091	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4092	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4093	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4094	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4095	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4096	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4097	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4098	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4099	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4100	SR	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4101	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4102	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4103	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4104	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4105	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4106	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4107	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4108	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4109	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4110	F	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Concretion	Tolstoi (?)
4111	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4112	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4113	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4114	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4115	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4116	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4117	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4118	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4119	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4120	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4121	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4122	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4123	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4124	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4125	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4126	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4127	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4128	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4129	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4130	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4131	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4132	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4133	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4134	F_1	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4134	F_2	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi

GREG BROWN AP-5000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5000	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5001	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5002	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5003	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5004	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5005	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5006	SR	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5007	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5008	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5009	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5010	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5011	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5012	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5013	SR	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5014	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5015	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5016	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5017	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5018	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5019	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5020	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5021	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5022	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5023	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5024	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5025	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5026	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5027	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5028	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5029	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5030	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Siltstn	Belkofski
5031	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Siltstn	Stepovak
5032	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5033	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5034	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5035	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5036	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5037	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5038	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5039	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5040	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5041	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5042	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5043	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5044	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5045	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5046	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5047	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5048	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5049	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5050	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5051	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5052	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5053	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5054	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5055	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5056	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5057	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5058	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5059	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5060	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5061	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5062	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5063	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5064	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5065	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5066	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5067	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5068	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5069	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5070	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5071	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5072	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5073	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5074	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5075	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5076	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5077	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5078a	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5078b	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5079	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5080	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5081	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5082	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5083	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5084	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5085	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5086	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5088	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5089	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5090	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5091	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5092	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5093	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5094	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5095	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5096	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5097	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5098	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5099	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5100	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5101	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5102	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5103	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5104	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5105	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5106	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5107	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5108	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5109	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5110	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5111	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5112	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5113	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5114	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5115	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5116	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5117	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5118	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5119	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5120	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5121	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5122	SR	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5123	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5124	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5125	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5126	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5127	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5128	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5129	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5130	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5131	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5132	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5133	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5134	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5135	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5136	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5137	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5138	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5139	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&)B-5)	Ss	Tolstoi
5140	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5141	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5142	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5143	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5144	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5145	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5146	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5147	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5148	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5149	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5150	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5151	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5152	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5153	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5154	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5155	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5156	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5157	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5158	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5159	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5160	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5161	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5162	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5163	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5164	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5165	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5166	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5167	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_1	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_2	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5169	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5170	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5171	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5172	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5173	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5174	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5175	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5176	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5177	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5178	F	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5179	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5180	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5181	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5182	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5183	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5184	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5185	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5186	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5187	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5188	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5189	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5190	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5191	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5192	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5193	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5194	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5195	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5196	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5197	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5198	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5199	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak

ROBERT SCOTT AP-6000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
6001	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3)&(B-4)	Sh	Stepovak
6002	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
6003	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
6004	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6005	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6006	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6007	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6008	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6009	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6010	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6011	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6012	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6013	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6014	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6015	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6016	F	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Ss	Stepovak
6017 1&2	PF	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Siltstn	Stepovak
6018 1&2	F	Grab, Pavlof Bay	5,8,17,20-55S-80W	Port Moller (B-5)	Ss	Tolstoi
6019	F	Grab, Coal Bay	5,8,17,20-55S-79W	Port Moller (B-5)	Mudstn	Stepovak
6018A	F	Grab, Korovin Bay	18-55S-71W	Port Moller (B-1)	Ss	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2181	G	Grab, Agripina Bay	30-35S-44W	Ugashik (A-2)	Granite	Eocene (?) intrusion
1027	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1028	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1029	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1030	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1031	F	Grab, Aliaskan Pen. (2 bags)	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
2177	MS	Grab, Aniakchak Volcano	9-38S-56W	Chignik (D-1)	Volcanic Rock	Quat. Volc.
2246	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2247	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2248	G	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Tuff	Meshik
2178	F	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Fossil	Naknek
2179	C	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Ss	Naknek
1000	PP	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Ss	Tachilni
1001	PF	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Fossil hash	Tachilni
2116a	F	Grab, Cape Tachilni	5-61S-89W	False Pass (D-3)	Fossil	Tachilni
4015	PF	Grab, Cape Tachilni	35-60S-90W	False Pass (D-3)	Sh	Unknown
3154	PP	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Ss	Naknek
3155	PF	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek
3156	SR	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek
6016	F	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Ss	Stepovak
6017 1&2	PF	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Siltstn	Stepovak
6019	F	Grab, Coal Bay	5,8,17,20-55S-79W	Port Moller (B-5)	Mudstn	Stepovak
2173	C	Grab, Cub Lake Mt.	19-35S-51W	Ugashik (A-5)	Tuff	Meshik
2174	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2175	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2176	PF	Grab, SW of Cub Lake Mt.	3-36S-51W	Ugashik (A-5)	Siltstn	Eocene (?)
1002	G	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
1003	G(MS)	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
2228	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2229	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2230	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2231	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
3146	W	Grab, Gas Spring	11,12-50S-74W	Port Moller (D-2)	Water	NA
2120	L	Grab, Herendeen Bay	32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr.
3145	W	Grab, Hot Spring	11,12-50S-73W	Port Moller (D-2)	Water	NA

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3147	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3148	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3149	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3150	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3151	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katami (D-1)	Ss	Naknek
3152	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3153	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
6018A	F	Grab, Korovin Bay	18-55S-71W	Port Moller (B-1)	Ss	Tolstoi
2000	PP	Grab, Korovin Island	21-55S-71W	Port Moller (B-1)	Ss	Tolstoi
2224	G	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2225	L	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2226	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
2227	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
3102	PP	Grab, W. of McGinty Pt	1-55S-77W	Port Moller (B-4)	Ss	Unga Congl.
2116b	L	Grab, Milky River	35-48S-69W	Port Moller (D-1)	Copper ore (?)	Morain
2180	MS	Grab, Mt. Chiginagak	15-35S-48W	Ugashik (A-3)	Andesite	Quat. Volc.
3136	L	Grab, Mud Bay	19-50S-72W	Port Moller (D-2)	Copper Ore (?)	Tolstoi
6018 1&2	F	Grab, Pavlof Bay	5,8,17,20-55S-80W	Port Moller (B-5)	Ss	Tolstoi
1004	GP(MS)	Grab, Pavlof Volcano area	15-55S-84W	Cold Bay (B-1)	Andesite	Quat. Volc.
1005	GP(MS)	Grab, Pavlof Volcano area	16-54S-83W	Cold Bay (B-1)	Andesite	Quat. Volc.
2219	MS	Grab, Purple Lake	6-42S-60W	Chignik (C-3)	Andesite	Quat. Volc.
2040	F	Grab, Ridge W. of Bear Lake	17-49S-70W	Port Moller (D-1)	Fossil	Bear Lake
2117	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
2118	PP	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Ss	Bear Lake (?)
2119	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
1006	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1007	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1008	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1009	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1010	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1011	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1012	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1013	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1014	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1015	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1016	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1017	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
1018	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1019	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1020	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1021	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1022	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1023	PF	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Sh	Unga Congl.
1024	L	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Ss	Unga Congl.
1025	PF	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Sh	Stepovak
1026	PP	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Ss	Stepovak
1032	G	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive
1033	G(MS)	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive
2221	MS	Grab, Veniaminof	13-45S-65W	Chignik (B-5)	Andesite	Quat.Volc.
5179	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5180	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5181	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5182	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5183	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5184	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5185	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5186	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5187	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5188	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5189	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5190	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5191	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5192	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5193	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5194	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5195	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5196	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5197	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5198	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5199	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
6004	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6005	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6006	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
6007	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6008	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6009	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6010	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6011	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6012	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6013	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6014	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6015	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
5000	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5001	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5002	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5003	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5004	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5005	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5006	SR	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5007	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5008	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5009	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5010	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5011	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5012	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5013	SR	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5014	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5015	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5016	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5017	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5018	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5019	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
2170	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2171	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2172	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
3133	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3134	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3135(3 bags)	F	Bear Lake	29-49S-70W	Port Moller (D-1)	Ss	Bear Lake
4000	PP	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Ss	Belkofski
4001	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4002	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Coaly Sh	Belkofski
4003	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4004	SR	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4005	PF	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4006	SR	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4007	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4008	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4009	PP	Cape Tachilni	36-60S-90W	False Pass (D-3)	Ss	Tachilni
4010	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4011	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4012	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4013	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4014	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
5031	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Siltstn	Stepovak
5032	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5033	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5034	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5035	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5036	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5037	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5038	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5039	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5040	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5041	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5042	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5043	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5044	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5045	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5046	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5047	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5048	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5049	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5050	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5051	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5052	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5053	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5054	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5055	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5056	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5057	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5058	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5059	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5060	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5061	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5062	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5063	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5064	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5065	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5066	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5067	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5068	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5069	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5070	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5071	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5072	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5073	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5074	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5075	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5076	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5077	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5078a	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5078b	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5079	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5080	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5081	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5082	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5083	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5084	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5085	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5086	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5088	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5089	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5090	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5091	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5092	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5093	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5094	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5095	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5096	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5097	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5098	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5099	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5100	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5101	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5102	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5103	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5104	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5105	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5106	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5178	F	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
3137	PP	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3138	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3139	SR	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3140	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3141	C	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3142	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3143	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3144	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
2001	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2002	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2003	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2004	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2005	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2006	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2007	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2008	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2009	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2010	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2011	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2012	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2013	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2014	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Siltstn	Tolstoi
2015	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2016	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2017	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2018	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2019	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2020	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2021	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2022	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2023	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2024	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2025	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2026	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2027	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2028	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2029	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2030	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2031	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Sh	Tolstoi
2032	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Sh	Tolstoi
2033	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2034	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2035	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2036	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2037	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2038	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2039	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2130	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Sh	Tolstoi
2131	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2132	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2133	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2134	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2135	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2136	PP	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2137	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2138	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2139	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2140	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2141	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2142	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2143	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2144	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2145	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2146	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2147	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2252	PP	Kaguyak	3-19N-28W	Afognak (C-6)	Calc. Ss	Lower Cret. (?)
2253	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2254	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2255	PP	Kaguyak	34-18S-28W	Afognak (C-6)	Calc Ss	Cret.
2256	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Siltstn	Cret.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2257	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Claystn	Cret.
2258	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2259	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2260	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2261	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2262	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2263	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2264	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2265	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2266	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2267	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2268	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2269	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2270	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2271	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2272	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2273	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2274	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2275	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2276	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2277	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2278	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2279	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2280	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2281	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2282	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2283	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2284	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2285	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2286	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2287	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2288	F	Kaguyak	34-18S-28W	Afognak (C-6)	Fossils	Cret.
2289	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2290	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2291	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2292	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
5020	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5021	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5022	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5023	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5024	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5025	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5026	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5027	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5028	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5029	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5030	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Siltstn	Belkofski
3047	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3048	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3049	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3050	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3051	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3052	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3053	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3054	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3055	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3056	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3057	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3058	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3059	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3060	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3061	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3062	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3063	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3064	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3065	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3066	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3067	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3068	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3069	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3070	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3071	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3072	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3073	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3074	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3075	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3076	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3077	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3078	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3079	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3080	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3081	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3082	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3083	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3084	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3085	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3086	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3087	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3088	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3089	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3090	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3091	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3092	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3093	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3094	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3095	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3096	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3097	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3098	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3099	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3100	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3101	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
6001	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3) & (B-4)	Sh	Stepovak
3103	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3104	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3105	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3106	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3107	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3108	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3109	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3110	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3111	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3112	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3113	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3114	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3115	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3116 (2bags)	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3117-C	C	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3118	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3119	C	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Tuff	Tachilni
3120	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3121	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3122	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3123	SR	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3124	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3125	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3126	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3127	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3128	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3129	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3130	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Organic Sh	Tachilni
3131	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
3132	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
2041	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2042	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2043	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2044	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2045	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2046	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2047	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2048	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2049	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2050	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2051	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2052	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2053	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2054	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2055	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2056	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2057	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2058	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2059	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2060	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2061	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2062	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2063	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2064	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2065	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2066	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2067	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2068	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2069	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2070	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake
2071	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2072	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2073	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2074	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2075	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2076	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2077	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2078	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2079	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2080	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2081	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2082	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2083	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2084	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2085	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2086	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2087	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake
2088	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2089	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2090	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2091	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2092	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2093	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2094	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2095	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2096	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2097	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2098	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2099	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2100	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2101	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2102	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2103	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2104	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2105	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2106	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2107	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2108	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2109	L	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Bear Lake
2110	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Coal	Bear Lake
2111	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2112	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2113	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2114	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2115	PP	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Stepovak (?)
2121	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2122	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2123	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2124	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2125	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2126	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2127	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Stepovak (?)
2128	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2129	PF	Milky River	26,27,34,35-28S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
6002	F	Milky River	26,27,34,35-28S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
6003	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
4071	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4072	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4073	G(MS)	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Dioritic	Stepovak
2074	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4075	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4076	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4077	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4078	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4079	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4080	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak
4081	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4082	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4083	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4084	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4085	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4086	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4087	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4088	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4089	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4090	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4091	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4092	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4093	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4094	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4095	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4096	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4097	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4098	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4099	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4100	SR	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4101	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4102	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4103	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4104	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4105	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Stepovak
4106	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4107	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4108	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4109	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4110	F	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Concretion	Tolstoi (?)
4111	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4112	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4113	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4114	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4115	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4116	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4117	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4118	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4119	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4120	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4121	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4122	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4123	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4124	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4125	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4126	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4127	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4128	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4129	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4130	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4131	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4132	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4133	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
5107	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5108	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5109	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5110	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5111	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5112	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5113	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5114	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5115	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5116	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5117	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5118	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5119	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5120	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5121	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5122	SR	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5123	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5124	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5125	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5126	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5127	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5128	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5129	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5130	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5131	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5132	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5133	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5134	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5135	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5136	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5137	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5138	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5139	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&)B-5)	Ss	Tolstoi
5140	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5141	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5142	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5143	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5144	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5145	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5146	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5147	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5148	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5149	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5150	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5151	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5152	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5153	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5154	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5155	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5156	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5157	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5158	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5159	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5160	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5161	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5162	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5163	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5164	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5165	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5166	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5167	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_1	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_2	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5169	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5170	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5171	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5172	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5173	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5174	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5175	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5176	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5177	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
4016	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4017	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4018	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4019	F	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Fossil	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4020	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4021	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4022	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4023	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4024	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4025	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4026	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi
4027	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4028	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4029	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4030	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4031	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi
4032	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4033	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4034	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4035	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4036	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4037	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4038	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4039	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4040	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4041	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4042	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4043	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4044	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4045	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4046	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4047	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4048	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4049	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4050	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4051	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4052	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4053	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4054	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4055	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4056	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4057	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4058	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4059	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4060	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4061	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4062	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4063	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4064	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4065	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4066	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4067	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4068	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4069	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4070	PF	Pavlof Bay	2,11,14,23-55S-80w	Port Moller (B-5)	Sh	Tolstoi
4134	F_1	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4134	F_2	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
2148	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2149	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2150	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2151	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2152	C	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2153	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2154	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2155	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2156	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2157	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2158	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2159	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2160	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2161	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2162	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2163	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2164	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2165	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2166	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2167	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2168	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2169	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
3007	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3008	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3009	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3010	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3011	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3012	PF	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3013	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3014	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3015	RP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3016	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3017	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3018	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3019	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3020	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3021	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3022	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3023	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3024	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3025	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3026	RP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3027	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3028	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3000	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3001	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3002	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3003	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3004	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3005	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3006	SR	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
2182	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2183	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2184	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granite Cobble	Naknek (?)
2185	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2186	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2187	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2188	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2189	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2190	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2191	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2192	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granitic Cobble	Naknek (?)
2193	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2194	RP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2195	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2196	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2197	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2198	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
3029	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Mudstn	Unga Congl.
3030	PP	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3031	PF	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3032	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.
3033	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3034	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3035	L	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Ss	Unga Congl.
3036	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3037	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3038	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
2232	L	NE Veniaminof	6-45S-63W	Chignik (B-4)	Ss	Bear Lake
2233	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2234	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2235	G	NE Veniaminof	6-45S-63W	Chignik (B-4)	Tuff	Tachilni
2236	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2237	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2238	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2199	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Mudstn	Tachilni
2200	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2201	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2202	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2203	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2204	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2205	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2206	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2207	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2208	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2209	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2210	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2211	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2212	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2213	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2214	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2215	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2216	W	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Water	Bear Lake
2217	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Carbon Sh	Eocene (?)
2218	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coal	Eocene (?)
2220	G	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Igneous	Eocene (?)
2222	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2223	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2239	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2240	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2241	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2242	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2243	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2244	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coaly Sh	Eocene (?)
2245	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Eocene (?)
2249	G	Windy Mtn 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2250	G	Windy mtn 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2251	PF	Windy mtn 3022'	31-41S-59W	Chignik (C-2)	Siltstn	Tachilni
3039	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3040	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3041	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3042	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3043	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3044	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.
3045	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3046	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.

CARLOS PIERCE AP-1000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
1000 9508	PP	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Ss	Tachilni
1001	PF	Grab, Cape Tachilni	5-61S-90S	False Pass (D-3)	Fossil hash	Tachilni
1002	G	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
1003	G(MS)	Grab, Deer Island	6-61S-87W	False Pass (D-2)	Pluton	Tert. intrusive
1004	GP(MS)	Grab, Pavlof Volcano area	15-55S-84W	Cold Bay (B-1)	Andesite	Quat. Volc.
1005	GP(MS)	Grab, Pavlof Volcano area	16-54S-83W	Cold Bay (B-1)	Andesite	Quat. Volc.
1006	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1007	PF	Grab, Tolstoi Pk area	23-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1008	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1009	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1010	PF	Grab, Tolstoi Pk area	24-55S-80W	Port Moller (B-5)	Siltstn & Mudstn	Tolstoi
1011	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1012	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1013	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1014	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1015	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1016	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1017	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1018	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1019	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1020	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1021	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1022	PF	Grab, Tolstoi Pk area	19-55S-79W	Port Moller (B-5)	Siltstn & Mudstn	Stepovak
1023	PF	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Sh	Unga Congl.
1024 9537	L	Grab, Tolstoi Pk area	25-55S-78W	Port Moller (B-5)	Ss	Unga Congl.
1025	PF	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Sh	Stepovak
1026 9537	PP	Grab, Unga Island	14-58S-76W	Port Moller (A-3)	Ss	Stepovak
1027	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1028	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1029	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1030	PF	Grab, Aliaskan Peninsula	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1031	F	Grab, Aliaskan Pen. (2 bags)	18-54S-75W	Port Moller (B-3)	Sh	Unga Congl.
1032	G	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive
1033	G(MS)	Grab, Unga Island	23-56S-75W	Port Moller (B-3)	Dioritic	Tert. intrusive

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2275 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2276	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2277 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2278 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2279	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2280 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2281 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2282	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2283 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2284 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2285	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2286 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2287 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2288	F	Kaguyak	34-18S-28W	Afognak (C-6)	Fossils	Cret.
2289	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2290 9717	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2291	PF	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak
2292 9717	SR	Kaguyak	18S-28W	Afognak (C-6)	Sh	Kaguyak

LEONID SMIRNOV AP-3000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3000 9508	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3001	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3002 9508	PP	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3003	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3004	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3005	PF	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3006 9509	SR	Soggy Foggy Peak	4-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3007 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3008 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3009 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3010 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3011 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3012	PF	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3013 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3014 9508	PP	SEaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3015	RP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3016 9508	PP	Seaweed Cove	21-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3017	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3018 9508	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3019	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3020	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3021	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3022	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3023 9508	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3024 9508	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3025 9508	PP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3026	RP	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Ss	Belkofski
3027	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3028	PF	Seaweed Cove	16-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
3029	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Mudstn	Unga Congl.
3030 9598	PP	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3031	PF	North Unga Island	19 & 29 55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.
3032	PF	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Claystn	Unga Congl.
3033 9537	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3034	L	North Unga Island	19 & 29-55S-74W 24-55S-75W	Port Moller (B-3)	Ss	Unga Congl.
3035	L	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Ss	Unga Congl.
3036	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3037	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3038	PF	North Unga Island	19 & 29-55S-74W	Port Moller (B-3)	Arg	Unga Congl.
3039 9598	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3040 9537	PP	Zachary Bay	5-56S-74W	Port Moller (B-3)	Ss	Unga Congl.
3041	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3042	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Siltstn	Unga Congl.
3043	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3044	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.
3045	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Coal	Unga Congl.
3046	PF	Zachary Bay	5-56S-74W	Port Moller (B-3)	Claystn	Unga Congl.
3047	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3048	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3049 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3050	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3051	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3052 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3053	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3054	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3055 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3056	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3057 9598	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3058	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3059	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3060 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3061	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3062 9598	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3063	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3064	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3065 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3066	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3067	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3068 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3069	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3070 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3071	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3072	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3073 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3074	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3075	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3076 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3077 9598	PP	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Ss	Stepovak
3078	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3079	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3080 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3081	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3082	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3083 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3084	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3085	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3086	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3087	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Siltstn	Stepovak
3088	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3089	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3090 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3091	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3092	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3093	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3094	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3095	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3096 9584	SR	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3097	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3098	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3099	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3100	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3101	PF	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3 & B-4)	Sh	Stepovak
3102 9598	PP	Grab, W. of McGinty Pt	1-55S-77W	Port Moller (B-4)	Ss	Unga Congl.
3103 9653	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3104	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3105	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3106	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3107	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3108	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3109	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3110	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3111	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3112	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3113	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3114	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3115 9653	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3116 (2 bags)	F	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3117-C	C	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3118	PF	Milky Ridge	14,15,20,21,22 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3119	C	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Tuff	Tachilni
3120	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3121	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3122	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3123 9671	SR	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3124	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Claystn	Tachilni
3125	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Siltstn	Tachilni
3126 9653	L	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Ss	Tachilni
3127	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3128	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3129	G	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Breccia	Tachilni
3130	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Organic Sh	Tachilni
3131	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
3132	PF	Milky Ridge	14,15,20,21,22, 23, 27-48S-69W	Port Moller (D-1)	Sh	Tachilni
3133	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3134	PF	Bear Lake	29-49S-70W	Port Moller (D-1)	Sh	Bear Lake
3135 (3 bags)	F	Bear Lake	29-49S-70W	Port Moller (D-1)	Ss	Bear Lake
3136	L	Grab, Mud Bay	19-50S-72W	Port Moller (D-2)	Copper Ore (?)	Tolstoi
3137 9672	PP	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley mbr of Chignik Fm.

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
3138 9672	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3139 9671	SR	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3140 9672	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3141	C	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3142	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3143	PF	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Sh	Coal Valley Mbr. of Chignik Fm.
3144 9672	L	Coal Bluff	29,32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr. of Chignik Fm.
3145	W	Grab, Hot Spring	11,12-50S-73W	Port Moller (D-2)	Water	NA
3146	W	Grab, Gas Spring	11,12-50S-74W	Port Moller (D-2)	Water	NA
3147 9719	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3148 9719	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3149 9719	L	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3150 9719	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3151 9719	PP	Grab, Kamishak Hills	7-14S-28W	Mt. Katami (D-1)	Ss	Naknek
3152 9719	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3153 9719	PP	Grab, Kamishak Hills	30-14S-28W	Mt. Katmai (D-1)	Ss	Naknek
3154 9719	PP	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Ss	Naknek
3155	PF	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek
3156 9717	SR	Grab, Cape Chiniak	21-19S-28W	Afognak (C-6)	Siltstn	Naknek

STEVE WILLIAMS AP-4000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4000 9508	PP	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Ss	Belkofski
4001	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4002	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Coaly Sh	Belkofski
4003	PF	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4004 9509	SR	Bold Cape	16,17-59S-85W	Cold Bay (A-1)	Sh	Belkofski
4005	PF	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4006 9509	SR	Bold Cape	21-59S-85W	Cold Bay (A-1)	Mudstn	Belkofski
4007	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4008	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4009 9508	PP	Cape Tachilni	36-60S-90W	False Pass (D-3)	Ss	Tachilni
4010	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4011	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4012	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4013	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4014	PF	Cape Tachilni	36-60S-90W	False Pass (D-3)	Mudstn	Tachilni
4015	PF	Grab, Cape Tachilni	35-60S-90W	False Pass (D-3)	Sh	Unknown
4016 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4017	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4018	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4019	F	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Fossil	Tolstoi
4020	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4021	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4022 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4023	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4024 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4025 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4026	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi
4027 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4028 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4029	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4030	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Siltstn	Tolstoi
4031	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Arg	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4032 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4033 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4034	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4035 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4036 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4037	RP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4038	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4039 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4040	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4041 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4042	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4043	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4044	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4045 9536	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4046	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4047	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4048	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4049	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Mudstn	Tolstoi
4050 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4051	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4052	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4053 9537	PP	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4054	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4055	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4056	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4057	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4058	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4059	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4060	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4061 9536	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4062	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4063	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4064	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4065	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4066 9536	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4067	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4068 9536	SR	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4069	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi
4070	PF	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4071	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4072 9584	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Sh	Stepovak
4073	G(MS)	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Dioritic	Stepovak
2074	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4075	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4076	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4077 9584	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4078	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4079	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4080 9598	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak
4081	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4082	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4083 9598	PP	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Ss	Stepovak
4084	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4085 9584	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4086	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4087	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4088 9584	SR	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4089	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4090	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4091	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4092	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Tuff/Claystn	Stepovak
4093	PF	Misty Ridge	13,24,25-55S-79W	Port Moller (B-4)	Siltstn	Stepovak
4094	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4095	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4096	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Siltstn	Stepovak
4097	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4098	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Sh	Stepovak
4099	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4100 9584	SR	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4101	PF	Misty Ridge	18-55S-78W	Port Moller (B-4)	Mudstn	Stepovak
4102	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4103	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4104	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Stepovak
4105 9598	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
4106	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4107 9584	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4108	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4109	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4110	F	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Concretion	Tolstoi (?)
4111 9598	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4112	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4113	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4114	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4115	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4116 9584	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Mudstn	Tolstoi (?)
4117	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4118	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4119 9598	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4120 9598	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4121	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4122 9598	PP	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Ss	Tolstoi (?)
4123	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4124	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4125	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4126	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4127	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4128 9584	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4129	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4130	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4131	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4132	PF	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4133 9584	SR	Misty Ridge	12,13-55S-79W	Port Moller (B-4)	Siltstn	Tolstoi (?)
4134	F_1	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi
4134	F_2	Pavlof Bay	2,11,14,23-55S-80W	Port Moller (B-5)	Ss	Tolstoi

GREG BROWN AP-5000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5000 9508	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5001	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5002 9508	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5003	RP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5004 9508	PP	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5005	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5006 9509	SR	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5007	PF	Balanced Rock	14-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5008 9508	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5009	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5010	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5011	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5012	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5013 9509	SR	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5014 9508	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5015	PF	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5016 9508	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5017	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5018 9508	PP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5019	RP	Balanced Rock	11,12-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5020	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Mudstn	Belkofski
5021 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5022 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5023 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5024 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5025 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5026 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5027 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5028 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5029 9508	PP	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Ss	Belkofski
5030	PF	Kitchen Anchorage	24-58S-85W	Cold Bay (A-1)	Siltstn	Belkofski
5031	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Siltstn	Stepovak
5032	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5033	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5034	PF	Coal Bay	26,27,28,32, 33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5035 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5036	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5037 9537	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5038	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5039	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5040 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5041	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5042	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5043 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5044	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5045	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5046	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5047	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5048 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5049	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5050	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5051	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5052	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5053	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5054	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5055	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5056 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5057 9537	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5058	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5059	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5060	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5061 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5062	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5063	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5064	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5065	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5066	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5067 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5068	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5069 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5070	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5071	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5072	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5073 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5074	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5075 9537	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5076	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5077	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5078a 9537	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5078b	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5079 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5080	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5081	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5082 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5083	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5084	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5085 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5086	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5088 9537	PP	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak
5089	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5090 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5091	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5092	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5093	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5094 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5095	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5096	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5097	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5098 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5099	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5100 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5101	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5102	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5103 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5104	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5105	PF	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak
5106 9536	SR	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Sh	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5107	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5108 9598	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5109	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5110	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5111	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5112	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5113	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5114	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5115 9598	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5116 9861	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5117	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5118	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5119	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5120 9861	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5121	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5122 9584	SR	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5123	PF	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5124 9861	PP	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5125	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5126 9584	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5127	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5128	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5129	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5130	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5131	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5132 9861	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5133	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5134 9584	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5135	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5136	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5137	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5138 9584	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5139 9861	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&)B-5)	Ss	Tolstoi
5140	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5141 9861	PP	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5142	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5143	PF	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5144 9584	SR	Misty Ridge	35-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5145	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5146	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5147 9584	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5148	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5149	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5150	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5151 9584	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5152	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5153	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5154	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5155	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5156	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5157	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5158	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5159 9584	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5160	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5161	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5162 9584	SR	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5163	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5164	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5165	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5166	PF	Misty Ridge	26,23-54S-79W	Port Moller (B-4)&(B-5)	Sh	Tolstoi
5167	F	Misty Ridge	1-55S-79W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_1	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5168	F_2	Misty Ridge	35-54S-78W	Port Moller (B-4)&(B-5)	Ss	Tolstoi
5169	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5170 9608	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5171	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5172	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5173	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5174 9608	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5175	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5176	PF	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5177 9608	SR	Misty Ridge	23,14-54S-79W	Port Moller (B-4)&(B-5)	Sh	Hoodoo
5178	F	Coal Bay	26,27,32,33-55S-79W	Port Moller (B-5)	Ss	Stepovak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
5179	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5180 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5181	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5182 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5183 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5184	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5185	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5186 9608	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5187	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5188 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5189	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5190 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5191	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5192 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
5193	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5194	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5195	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5196 9608	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5197	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5198	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak
5199 9608	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Sh	Stepovak

ROBERT SCOTT AP-6000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
6001	F	McGinty Pt	17,20,30,31-54S-76W	Port Moller (B-3)&(B-4)	Sh	Stepovak
6002	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
6003	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sdy Congl	Bear Lake
6004	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6005	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6006	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6007	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6008	F	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6009 9861	PP	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Ss	Stepovak
6010	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6011 9608	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6012	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6013	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6014 9608	SR	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6015	PF	American Bay	5,8,17,20-52S-70W	Port Moller (C-1)	Siltstn	Stepovak
6016	F	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Ss	Stepovak
6017 1&2	PF	Grab, Chichagof Peak	5,8,17,20-52S-71W	Port Moller (C-1)	Siltstn	Stepovak
6018 1&2	F	Grab, Pavlof Bay	5,8,17,20-55S-80W	Port Moller (B-5)	Ss	Tolstoi
6019	F	Grab, Coal Bay	5,8,17,20-55S-79W	Port Moller (B-5)	Mudstn	Stepovak
6018A	F	Grab, Korovin Bay	18-55S-71W	Port Moller (B-1)	Ss	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2244	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coaly Sh	Eocene (?)
2245 9641	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Eocene (?)
2246	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2247	PF	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Siltstn	Meshik
2248	G	Grab, SW Aniakchak	25-39S-58W	Chignik (D-2)	Tuff	Meshik
2249	G	Windy Mtn. 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2250	G	Windy Mtn. 3022'	31-41S-59W	Chignik (C-2)	Andesite	Tachilni
2251	PF	Windy Mtn. 3022'	31-41S-59W	Chignik (C-2)	Siltstn	Tachilni
2252 9719	PP	Kaguyak	3-19N-28W	Afognak (C-6)	Calc. Ss	Lower Cret. (?)
2253	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2254	PF	Kaguyak	3-19N-28W	Afognak (C-6)	Sh	Lower Cret.
2255 9719	PP	Kaguyak	34-18S-28W	Afognak (C-6)	Calc Ss	Cret.
2256	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Siltstn	Cret.
2257	PF	Kaguyak	34-18S-28W	Afognak (C-6)	Claystn	Cret.
2258 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2259	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2260 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2261 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2262	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2263 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2264 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2265	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2266 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2267 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2268	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2269 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2270	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2271 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2272 9719	PP	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Ss	Kaguyak
2273	PF	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak
2274 9717	SR	Kaguyak	18S-28W & 18S-27W	Afognak (C-6)	Sh	Kaguyak

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2218	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Coal	Eocene (?)
2219	MS	Grab, Purple Lake	6-42S-60W	Chignik (C-3)	Andesite	Quat. Volc.
2220	G	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Igneous	Eocene (?)
2221	MS	Grab, Veniaminof	13-45S-65W	Chignik (B-5)	Andesite	Quat. Volc.
2222	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2223	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Eocene
2224	G	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2225	L	Grab, Kujulik Bay	9-42S-56W	Chignik (C-1)	Andesite	Meshik
2226	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
2227	G	Grab, Kujulik Bay	17-42S-54W	Sutwik Is (C-6)	Andesite	Meshik
2228	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2229	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2230	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2231	G	Grab, Devils Bay	2-48S-59W	Chignik (A-2)	Granitic	Eocene (?) intrusive
2232	L	NE Veniaminof	6-45S-63W	Chignik (B-4)	Ss	Tachilni
2233	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2234	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2235	G	NE Veniaminof	6-45S-63W	Chignik (B-4)	Tuff	Tachilni
2236	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2237	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2238	PF	NE Veniaminof	6-45S-63W	Chignik (B-4)	Siltstn	Tachilni
2239	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2240	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2241	PF	Windy Ridge	3,4,5,8,9,10,13 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2242	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)
2243	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Eocene (?)

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2201	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2202	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2203	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2204	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2205	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2206	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2207	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2208	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2209	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2210	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2211	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2212	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2213	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Sh	Bear Lake
2214	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Siltstn	Bear Lake
2215	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake
2216	W	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Water	Bear Lake
2217	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Carbon Sh	Eocene (?)

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2171 9653	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2172	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake
2173	C	Grab, Cub Lake Mt.	19-35S-51W	Ugashik (A-5)	Tuff	Meshik
2174	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2175	PF	Grab, South of Cub Lake Mt.	29-35S-51W	Ugashik (A-5)	Siltstn	Tolstoi
2176	PF	Grab, SW of Cub Lake Mt.	3-36S-51W	Ugashik (A-5)	Siltstn	Eocene (?)
2177	MS	Grab, Aniakchak Volcano	9-38S-56W	Chignik (D-1)	Volcanic Rock	Quat. Volc.
2178	F	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Fossil	Naknek
2179	C	Grab, Black Lake Anticline	22-42S-58W	Chignik (C-2)	Ss	Naknek
2180	MS	Grab, Mt. Chiginagak	15-35S-48W	Ugashik (A-3)	Andesite	Quat. Volc.
2181	G	Grab, Agripina Bay	30-35S-44W	Ugashik (A-2)	Granite	Eocene (?) intrusion
2182	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2183 9691	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2184	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granite Cobble	Naknek (?)
2185	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2186	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2187 9691	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2188	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2189 9691	PP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2190	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2191	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Naknek (?)
2192	G	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Granitic Cobble	Naknek (?)
2193 9691	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2194	RP	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2195 9691	L	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Ss	Naknek (?)
2196	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2197	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2198	PF	Lower Ugashik Lake	32S-47W & 32S-48W	Ugashik (B-3)&(B-4)	Siltstn	Bear Lake (?)
2199	PF	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Mudstn	Bear Lake
2200 9691	L	Windy Ridge	3,4,5,8,9,10,13, 14,15,16-42S-59W	Chignik (C-2)	Ss	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2137	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2138	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2139	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Siltstn	Tolstoi
2140 9653	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2141	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2142 9671	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2143	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carbon siltstn	Tolstoi
2144	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2145	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2146 9671	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2147 9653	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2148	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2149 9653	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2150	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2151 9653	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2152	C	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2153	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2154 9653	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2155	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2156	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2157 9653	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2158	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2159	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2160	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2161	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2162 9653	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2163	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2164	F	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2165	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2166	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2167 9672	PP	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2168 9672	L	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Ss	Tachilni
2169	PF	Sandy Lake	4,5-48S-68W	Chignik (A-6)	Sh	Tachilni
2170	PF	Bear Lake	19-49S-70W	Port Moller (D-1)	Siltstn	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2105	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2106 9655	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2107	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2108 9655	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Siltstn	Bear Lake
2109 9653	L	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Bear Lake
2110	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Coal	Bear Lake
2111	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2112 9655	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2113	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Stepovak (?)
2114	F	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Fossil	Stepovak (?)
2115 9653	PP	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Ss	Stepovak (?)
2116a	F	Grab, Cape Tachilni	5-61S-89W	False Pass (D-3)	Fossil	Tachilni
2116b	L	Grab, Milky River	35-48S-69W	Port Moller (D-1)	Copper ore (?)	Morain
2117	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
2118 9653	PP	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Ss	Bear Lake (?)
2119	PF	Grab, N. Steponof Flats	29-48S-66W	Stepovak Bay (D-5)	Siltstn	Bear Lake (?)
2120 9653	L	Grab, Herendeen Bay	32-50S-74W	Port Moller (D-3)	Ss	Coal Valley Mbr.
2121 9653	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2122	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2123 9671	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2124	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2125	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2126	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2127	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Stepovak (?)
2128 9653	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Stepovak (?)
2129	PF	Milky River	26,27,34,35-28S-69W	Port Moller (D-1)	Siltstn	Stepovak (?)
2130	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Sh	Tolstoi
2131	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2132 9671	SR	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2133 9653	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2134	PF	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Carb. Sh	Tolstoi
2135 9653	L	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi
2136 9653	PP	Ivanof Bay	2,3,10,15-50S-66W	Port Moller (D-5)	Ss	Tolstoi

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2071 9653	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2072	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2073	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2074 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2075	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2076	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2077 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2078	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2079	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2080	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2081	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2082	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2083	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2084	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2085 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2086	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2087	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake
2088 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2089	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2090 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2091	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2092 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2093	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2094 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coal	Bear Lake
2095 9653	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2096	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2097 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Sh	Bear Lake
2098	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2099 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Coaly Sh	Bear Lake
2100	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2101	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2102 9655	SR	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2103	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake
2104	PF	Milky River	26,27,34,35-48S-29W	Port Moller (D-1)	Sh	Bear Lake

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2035 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2036	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2037 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2038	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2039	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2040	F	Grab, Ridge W. of Bear Lake	17-49S-70W	Port Moller (D-1)	Fossil	Bear Lake
2041 9653	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2042	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2043	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2044 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2045 9653	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2046	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2047	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2048 9653	L	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2049	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2050 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2051 9653	PP	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Ss	Bear Lake
2052	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2053 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2054	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2055 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2056	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2057 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2058	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2059	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2060	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2061 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2062	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Fossil	Bear Lake
2063	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2064 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2065	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2066	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2067 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2068	PF	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2069 9655	SR	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Siltstn	Bear Lake
2070	F	Milky River	26,27,34,35-48S-69W	Port Moller (D-1)	Plant Fossil	Bear Lake

BILL CONNELLY AP-2000
1977

SAMPLE NUMBER	I.D.	SECTION NAME	LOCATION	QUAD.	LITHOLOGY	FORMATION
2000 9861	PP	Grab, Korovin Island	21-55S-71W	Port Moller (B-1)	Ss	Tolstoi
2001 9611	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2002	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2003	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2004 9861	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2005	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2006	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2007	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2008 9861	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2009	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2010	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2011	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2012	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2013	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2014	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Siltstn	Tolstoi
2015	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2016 9861	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2017 9861	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2018	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2019 9861	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2020 9691	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2021 9691	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2022 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2023	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2024 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Siltstn	Tolstoi
2025 9691	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2026 9691	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2027	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Sh	Tolstoi
2028 9691	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2029 9691	L	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Ss	Tolstoi
2030 9691	PP	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	S	Tolstoi
2031 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	C b. Sh	Tolstoi
2032	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Carb. Sh	Tolstoi
2033 9693	SR	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi
2034	PF	Ivanof Bay	2,3,10,15-50S-66W	Stepovak Bay (D-5)	Coal	Tolstoi

BB721

Copy

1977 ALASKAN PENINSULA FIELD PARTY NOTES

June 1 - July 17, 1977

Carlos Pierce

June 1 Flew to Anchorage

June 2 Obtained keys to warehouse from McKeever, collected supplies, organized and transported some gear to Sea Airmotive for flight to Cold Bay. Visited Evergreen Helicopters to discuss travel plans and project requirements.

June 3 Finished collecting supplies and transporting gear to Sea Airmotive

June 4 Left Anchorage in Twin Otter charter for Cold Bay at 9:00 a.m. Arrived Cold Bay 3:00 p.m. High winds, overcast. Rented truck and stored some gear in Reeves Hanger. Got settled in Flying Tiger Inn. Helicopter arrived about 6:30 p.m. (12 hrs. from Anchorage).

June 5 Weathered In! Wind died during night, rainy and foggy. Weather broke a little by 1:00 p.m. Flew to Lenard Harbor, weather was clear on Pacific side--visited Amoco Section #201, Sands tight, and lithic-volcanic rich.

Flew along coast to find location to measure a section. Bold Cape has pretty good exposures but will be difficult to tie to anything else. Everything above 1200' is still covered. Bear Lake Fm. exposures very poor. Found one spot we can possibly get about 1000' of Bear Lake Fm. and 400'-600' of Belkofski Fm. across contact. Exposures in Wild Life Refuge are very poor and not worth trying to measure. Any compositing will be quite tenuous.

June 6 Attempted to measure Belkofski Fm. section near Bold Cape, found that a high percentage of section is volcanic rocks (dikes, agglomerates, breccias) with interbedded volcanic rich sandstones, siltstones, mudstones, and some coaly stringers. Some of the mudstones appear to have been metamorphosed. Strike and dip of beds is not very conducive to measuring. Visited area of Bear Lake-Belkofski contact near King Cove. Contact not easy to locate and distinction between Belkofski Fm.-Bear Lake Fm. seems very vague. Bear Lake Fm. consists of high percentage of volcanic rocks (tuffs, agglomerates, volcanic conglomerates, and some volcanic sandstone). This is also true of other outcrops visited to this point, indicating that Burke's feeling that this unit correlates with the Bear Lake Fm. to the Northeast is incorrect and Amoco's interpretation of this unit as late tertiary volcaniclastics is probably correct. Weather was marginal, had to work beaches because high country was fogged in.

June 7 Socked in early. Finally able to get out about 10:00 a.m. Went back to Bold Cape and measured more Belkofski Fm. Predominantly volcanics and volcaniclastics, with occasional sandstones, siltstones, and mudstones. Went to Capitan's Harbor to look for additional section to measure. Found some reasonable cliff exposures. The lower 300' is mostly sandstone. Appears possible to tie this section to other areas. Rained all day, finally

had to leave because of fog--impossible to recon high country--will have to wait for better weather to attempt to tie sections.

June 8 Weathered in--No air traffic whatsoever. Finally broke a little about 1:00 p.m., went to Capitan's Harbor and worked on Balanced Rock Section. Rain and fog, and straight uphill--measured about 350 feet. Less volcanics than at Bold Cape, one 25' good looking sand, rest of sands very dirty. Will try and tie this section to other areas.

June 9 Fogged in again! Lifted about 10:00 a.m., Belkofski Bay still 0-0 so went around to Cape Tachilni. Visited Amoco's Section #202 and got some grab samples. Some pretty good sands, very dirty, but porous and unconsolidated. Not certain if any additional Tachilni Fm. can be measured, if we have time later will try. Weather improved so went back to Cold Bay to get fuel and then to Belkofski Bay to measure more of Balanced Rock Section. Still difficult to recon and tie sections together because of weather. It is very difficult to plan work in advance, activities are completely dependent upon weather conditions which are extremely variable. Up to this time mountains above 1000' have rarely been clear of fog.

June 10 Went to Belkofski Bay. Measured Foggy-Soggy Peak Section. I think it ties reasonably well to the Balanced Rock Section. Very bad weather, almost got run off lower part of section by big bear, the helicopter had to chase him off. Started to measure the Seaweed Cove section, uncertain of how, or if, it will tie to other sections because it is impossible to recon due to low weather. Good 60' sand at base of section. Fair porosity, but very dirty.

June 11 Went back to Belkofski Bay. Weather pretty good, but got progressively worse. Worked on Seaweed Cove Section. Part of this section appears to duplicate the Balanced Rock-Foggy-Soggy Peak Sections; however, the lower part of the Seaweed Cove Section is probably older than any of the Balanced Rock Section and is likely the oldest Belkofski Fm. we will see on the NE limb of the anticline. The Foggy-Soggy Peak Section will probably be the youngest Belkofski Fm.

Poor exposures, snow cover, and bad weather limit possibilities of looking at younger rocks.

Went to Canoe Bay area to recon in afternoon. Looked at possible sections to measure at Pavlov Bay and Coal Bay, it will be difficult to tie sections together.

June 12 Went back to Foggy-Soggy Peak Section to see if we could get higher up in the section, but fog was too low, went to Lenard Harbor to try to measure section across Belkofski-Bear Lake Fm. Contact. The Bear Lake Fm. in this area is totally volcanic--mostly andesitic flows. The Belkofski Fm. contains breccias as seen in previous sections. Went to Vodopoinoi Point, found same situation, Bear Lake Fm. contains lavas, tuffs, and volcanic debris flows. Visited Deer Island and sampled an intrusive.

June 13 Extremely high winds, gusting to 40 knots. Packed and shipped samples, worked on plotting sections, called Denver and Anchorage. Weather improved by noon, finished Foggy-Soggy Peak Section. Weather got worse again, blowing, raining, and foggy. Attempted to recon Bear Lake Fm. on Bering Sea side but winds were too dangerous, had to return to Cold Bay.

June 14 Went to Cape Tachilni. Weather very bad on Pacific Side, 40-50 knot winds, rain and fog. Went back to Cold Bay and plotted sections and did office work.

June 15 Remeasured Section #202 at Cape Tachilni Sands very friable, may not be able to obtain good porosity determinations. Articulated pelecepods and other fossils indicate marine environment, cobbles and carbonaceous material indicate a nearby continental area. Should get good microfossil recovery. Very high winds again, attempted to recon Canoe Bay area, finally had to give up because of dangerous winds and low ceiling.

June 16 Recollected and described Section 201--mostly massive sand as noted in previous descriptions, but some additional units present also examined--reconed Canoe Bay area, it may be possible to tie Amoco's sections and Burke's sections at Pavlov Bay and Coal Bay; and then tie the Pavlov Bay Sections with the Coal Bay Sections. John McKeever arrived from Anchorage.

June 17 Took McKeever to the Black Hills. Looked for some indication of a fault south of the Cathedral River #1 Location, found none. Brought John back to catch his plane to Anchorage. Visited areas around Pavlov Volcano, collected some Pliocene and Quaternary Lava Flows, for magnetic susceptibility measurements.

June 18 Packed and assembled gear for move to Sand Point. Prepared and shipped samples collected up to this time, finished plotting sections and samples.

The volcanic nature and poor sorting of the Belkofski Fm. indicate close proximity to a volcanic center. The abundant carbonaceous material and occasional plant fossils favor continental deposition as does the lack of any marine fossils; however, the occasional mudstones denote at least some marine influence. In general, the paleocurrent measurements indicate a westward trend of deposition. Perhaps (see correlation chart for Section Correlation) the Belkofski Fm. was deposited in a situation similar to the present day Aleutian Island Chain in close proximity to a volcanic source, but with periods of quiesense allowing deposition of volcanic-derived sediments and even some mudstones to occur.

The Bear Lake Fm. as mapped to the north by Burke, probably does not exist in this area. Those beds mapped as Bear Lake Fm. are almost entirely volcanics (lava flows and agglomerates) with very very minor clastic component.

The Tachilni Fm. probably represents a shallow marine shelf sequence as indicated by the stratigraphic relationships, marine fossils, and bioturbation. It contains a high percentage of quartz, but also large amounts of feldspar, implying rapid deposition. The onshore exposures are very limited but if a similar section is present in offshore areas they may provide attractive reservoirs.

June 19 Moved to Sandpoint. Winship's "Goose" was broken down and couldn't make flight. Was able to arrange for a Reeves-Penninsula flight for the same time. Left Cold Bay at 9:00 a.m. Two loads were required to move all of our gear. Completed move about 1:00 p.m. Found accomodations at New England Cannery totally unacceptable. Arranged to stay at the Anchor Inn Motel in the village and take our meals at the cannery. Cost of $800 per month for motel and $15 per man per day for meals. Rented a truck for $10 per day for transportation to the airstrip.

June 20 Began measuring Pavlov Bay Section--will encompass Amoco Section #203 and Burke Section #9. Began at crest of anticline and measured down section to Tolstoi Peak--also worked on tieing Pavlov Bay sections to Coal Bay sections. Will attempt to use concretionary bearing interbedded siltstone, mudstone, and sandstone unit near top of Pavlov Bay section to tie to similar unit in west side of Coal Bay section (Aerial Photo VECV #5-24.)

June 21 Bluebird day! Continued measuring Pavlov Bay section and attempting to tie to Coal Bay sections. It appears that the major fault mapped by Burk to the East has also affected the Coal Bay area. This can be seen along foothills just north of Coal Bay and is probably evidenced by a major break in slope (See Photo #4-20). This fault and the lack of any distinctive lithologies makes the tie of the Pavlov Bay Section to the Coal Bay Section very difficult; however, it seems that the abundance of siltstone and mudstone units in both sections indicates an excellent possibility of a paleontologic tie.

June 22 Finished Pavlov Bay Section and started Coal Bay Section. Exact correlation of the two sections uncertain.

June 23 Weather very bad, tried to get across Unga Strait, had to return. Tried again at 11 a.m., got across. Continued working on Coal Bay Section. Extensive sequence of alternating mudstones, siltstones, and sandstones. Some carbonaceous material and occasional black mudstones. Sandstones are thin mostly 1'-3'; some up to 60'-80'. Occasional faint ripple marks. One sequence appears to be channeled with cross-bedding. Section may represent a pro-delta, sequence. Reconed Bobrovia Mountain. Found that the hogback and dip slope that Burke has mapped as Unga Conglomerate is andesitic lava flows and agglomerates. The only sedimentary rock present is about 20' of sandstones and pebble conglomerates exposed in beach cliff southeast of Bobtovia Mountain. Any attempted tie of this exposure to the Coal Bay Section will be pointless. Also visited the McGinty Point area. There is

a steep dipping beach section of Stepovak Fm. exposed, but would not be able to tie structurally to any other area. May measure later if time to provide lateral facies control and possible paleo tie. Area in Beaver Valley has possible section but cut by major fault.

June 24 Completed Coal Bay Section. Fault near top of section and then covered interval--uncertain of displacement. Perhaps paleo can help--appears to be repeated portion of lower part of section.

Reconed area between Coal Bay to Canoe Bay. Found possible location for Hoodoo through Stepovak section, but very rugged and will require several questionable ties--will try later.

June 25 Measured Unga Island Section. Corresponds to Burke's 16 A & B sections. These exposures on the North end of the island appear to be the only sedimentary sequence on the island. The rocks mapped as Unga Conglomerate elsewhere are predominantly volcanic rocks. This sedimentary sequence represents largely fluvial rocks with periods of greater volcanic activity (tuffs) and periods of quiesence (mudstone and coals). Reconed the areas mapped as Stepovak on the south end of the Island. Found only a few isolated exposures of sedimentary rocks which have been highly deformed and altered by intrusive and volcanic activity. There is no possibility of measuring any type of meaningful stratigraphic section in this area. Evergreen brought a new engine from Anchorage for a switch (they had been leasing the present one). Came in at 2 p.m. so they could get started. Had their twin otter take ten of our empty fuel drums to Cold Bay and refill them. Required about one hour flying time--should be the cheapest way to get fuel to Sand Point. Now have 37 total Bbls. of fuel for use at Sand Point.

June 26 Evergreen did not complete changing the engine in the helicopter until 12 p.m. Measured paleocurrent directions on Unga Island Section and recollected Amoco's Aliaskin Peninsula Section for paleo data, the presence of shell hash comglomerates, bioturbation, boulder zones, and coarse cross-bedded sands and gravels in this Section are indicative of beach and shallow marine deposition. Had trouble getting the helicopter restarted after one stop. Finally got it started after several tries.

June 27 Tried to get into high country to measure Misty Ridge Section, but low clouds and high winds made it impossible. Decided to look at McGinty Point Section. Found some outcrops in foothills to partially fill in Burke's covered interval near base of section. Covered interval appears to be continuous and composed of same type of rocks as rest of section. Stepovak apears to be more marine here than at Coal Bay, and younger as previous Amoco Paleo data indicates. Uncertain as to why dip is so steep here, but probably related to major fault, which cuts section just to the North. Reconed Swedania Point area found Unga Conglomerate to be 90% volcanic, as in other areas.

June 28 Attempted again to measure the high country section, but weather conditions still impossible. Went back to McGinty Point area and looked at Unga Conglomerate exposure. Approximately 100' exposured, it is very similar to Aliasksin Section. Conglomerates and large cross-bedded coarse sands. Went to Unga Island and collected intrusive samples for age dating and magnetic susceptibility measurements.

June 29 Went to Cold Bay to pick up Marshall and Jake. Toured Belkofski Bay area on the way back to Sand Point.

June 30 Tried to get on Misty Ridge Section, clouds too low and wind too strong. Showed Marshall and Jake the Pavlov Bay section.

July 1 Showed Coal Bay Section to Marshall and Jake, weather still too bad to get on Misty Ridge Section. Visited Kupreanov Peninsula and Stepovak Bay Area. May measure section at American Bay and collect Burke's Fox Bay Section later.

July 2 Showed Marshall and Jake Cape Aliaskin, McGinty Point, North Unga Island and Zacherary Bay Sections. Started measuring Misty Ridge Section, should be able to measure most of Stepovak Fm., Tolstoi Fm., and upper part of Hoodoo Fm.

July 3 Continued measuring Misty Ridge Section, were driven off by weather, went to Bear Lake to check on fuel and accomodations.

July 4 Visited Herendeen Bay area with Marshall and Jake to look at Mesozoic Rocks--looked pretty grim. Continued working on Misty Ridge Section.

July 5 Took Marshall and Jake to Cold Bay for return to Anchorage. Continued work on Misty Ridge Section. Rocks exposed in this section are in part very similar to the volcanic breccias and volcanic "green" sand present in the Belkofski Fm., also abundant dikes and intrusives; actually very dissimilar to the Stepovak section exposed at Coal Bay. One possible explanation is the continuation of the major fault system mapped by Burke to the East into this area. Placing older Tolstoi-Belkofski rocks in contact with younger Stepovak Fm. This fault system may also have provided zones of weakness for emplacement of the dikes and intrusives so prevalent in this part of the section. this fault, if present, may also explain the difference in dip magnitudes of the high country and beach exposures as shown on Burke's geologic map.

July 6 Weathered in! Tried to get on section, had to give up.

July 7 Weathered in--fog and rain.

July 8 Ditto!

July 9 Continued measuring Misty Ridge Section. Requires tying individual isolated segments together in order to continue composite section. Lithology is not distinctive enough to correlate with any confidence and there is considerable local faulting which compounds the problem; however, the ties and correlations (see photo VECV 5-25) appear

reasonable. Burke's contact (Tolstoi-Stepovak) is difficult to distinguish and there seems to be little basis for separation.

July 10 Continued measuring Misty Ridge Section. Some complicaton due to local faulting and igneous intrusives and sills, but appears to be fairly continuous section. Entire sequence consists of interbedded sandstone, siltstone, and mudstone. Sands are occasionally cross-bedded, and rarely graded (fining upward) and conglomeritic. The siltstones and mudstones are all very carbonaceous (rarely coaly). Some of the sandstones are also carbonaceous.

July 11 Weathered in.

July 12 Took Williams to Cold Bay to catch flight to Anchorage. Connelly and Scott arrived from Anchorage.

July 13 Finished measuring Misty Ridge Section. Attempted to measure as low as possible in the Section to insure obtaining a portion of the Hoodoo Fm. This reqiured including a sizeable covered interval in "leg H." Hopefully some of the base of "leg G" will also have some Cretaceous present. The Tolstoi-Stepovak sequence appears to be generally transgressive, however, there is much fluctuation of water depths and it appears that water depths were never great (200'-400').

Showed Scott and Connelly Misty Ridge, Pavlov Bay, and Coal Bay Sections.

July 14 Showed Connelly and Scott Cape Aliaskin, McGinty Point, and Unga Island Sections.

July 15 Went to Bear Lake, arranged for more fuel at Sand Point, and for Don Johnson to move the field party to Bear Lake. Found a good Miocene-Pliocene section to measure near Bear Lake. Excellent exposures and continuous uninterrupted section overlain by volcanics. Abundant sedimentary structures and fossils. Uncertain as to how this sequence relates to the Miocene age rocks in the Unga Island Area.

July 16 Showed Connelly Balkofski Bay area.

July 17 Passed the "baton" to Connelly. Prepared to leave.

GRAB SAMPLES

Tachilni Fm. - Cape Tachilni

June 9 AP1000 PP: Sandstone, gn-gy, m-csgn, f-p sort, subangular, composed predominantly of lithic frags, with some qtz. and chert. Good porosity, but dirty.

AP1001 PF: Sandstone, a.a., silty abundant pelecepod fragments. Cross-beds indicate approximate flow to the N.W.

Deer Island

June 12 AP1002 G (Chron.): Diorite, fine-grained predominantly plagioclase and pyroxene. Commonly altered but found what appeared to be a fresh sample.

AP1033 G(mag): Diorite a.a.

Cathedral Valley Area

June 17 AP1004 G(mag): Pliocene volcanics. Porphyritic andesite, gy-bk, abundant plagioclase phenocrysts. Badly altered.

AP1005 G(mag): Quaternary volcanics. Porphyritic andesite, grey, phenocrysts of plagioclase with occasional pyroxene.

Pavlov Bay Area

June 21 Attempt to sample siltstone "marker" units for Paleo-tie to Coal Bay area.

AP1006 PF: Siltstone, gn-brn, round to eliptical concretions common. Exposure consists of 21' of 3'-4' beds of siltstone with interbedded 1'-2' sandstone beds, gn-gy, f-mg, p-f sort, sub agn., lithic frags, feldspar and occ. lt. colored chert. Strike and dip, N22°W 16°SW. Sample taken near top of exposure. Carbonaceous.

AP1007 PF: Taken near base of exposure, siltstn, a.a.

AP1008 PF: Siltstn, a.a. 6"-1' beds w/interbedded 1"-3" finer-grained beds. Only occasional sandstone interbeds, about 75' exposed. Sample taken near base of unit. Concretions less abundant but get larger, up to 8" in diameter. Strike and dip, N0°W 21°W.

AP1009 PF: Siltstn, a.a. Taken midway in unit.

AP1010 PF: Siltstn, a.a. Taken near top of exposure. Appears to tie w/preceding samples 1006-07 updip and along strike.

AP1011 PF: Siltstn, a.a. only minor sandstone, 1"-3" beds. Strike and dip N28W 25°SW, estimate about 100' exposed--appears to tie with preceding samples. Taken 25' from top of exposure.

AP1012 PF: Siltstn, a.a., 25' from base of exposure.

AP1013 PF: Siltstn, a.a. Sample taken 10' below contact with overlying massive sandstone. Contact appears gradational with siltstn, becoming progressively sandier. This particular location appears to be an isolated fault sliver but was sampled because contact was well exposed.

AP1014 PF: Siltstn, a.a. Samples taken 25' below top of 300' exposure. Strike and dip, N52°W 13°SW appears to tie w/preceding sample locations.

AP1015 PF: Concretion, calcareous mudstone. About 10" on long axis. Taken 25' down section from 1014.

AP1016 PF: Siltstn, a.a., very fine grained, same location as 1015.

AP1017 PF: Mudstone, gy-brn, appears that siltstone has become fine-grained sandstone interbeds very rare. Common, resistant mudstone layers form ledges. Samples taken 25' below 1016.

AP1018 PF: Mudstone a.a., 25' below 1017

AP1019 PF: Mudstone a.a., 30' below 1018

AP1020 PF: Mudstone a.a., 25' below 1019

AP1021 PF: Siltstone, a.a., 40' below 1020

AP1022 PF: Mudstone a.a., 30' below 1020 and 40' along base of exposure, which is covered by Qal.

June 24 Along beach south of Bobrovia Mtn. area possible Ungo Conglomerate as mapped by Burke.

AP1023 PF: Mudstone, purple gy. Exposure consists of 65' of cross-bedded coarse sands, pebble conglomerates and some cobble conglomerates, cross-bed sets average about 3'-4'. Conglomerates and sands are comprised of adesitic volcanic clasts w/occasional argillite. Fair sorting, subrounded to subangular clasts. Sands contain significant amounts of quartz (20%). Friable, so difficult to obtain porosity sample. Sample was taken in 2" thick mudstone unit (the only one observed in the exposure).

AP1024 L: Sandstone, tan, Cs-gn, f-sort, subround to subang. sample taken from same location as 1023. For x-ray mineralogy and possible correlation with Unga Conglomerate elsewhere.

South Unga Island

June 25 AP1025 PF: Mudstone silty - black. Taken from beds mapped as Stepovak by Burke. Occurs as 3"-6" interbeds with sand and silty sand. From a distance the exposure has the appearance of a banded turbidite sequence; however, no distinctive sedimentary features were found and just down section there is a 15' foot sand which is cross-bedded.

AP1026 PP: Sand, gn-gy, poor sort, subang. occasional granules and pebbles of dark volcanics. Composed of 5-10% qtz., lithic frag and feldspar. Grades from and into a siltstn-mudstn sequence. Entire exposure is surrounded by igneous rocks.

June 26 Aliaskin Peninsula - Amoco Section #5026

AP1027 PF: At 385'. Siltstn, gy-bn, micaceous, carbonaceous.

AP1028 PF: Concretion, carbonaceous. Contains abundant leaf imprints. At 390'.

AP1029 PF: At 310' 1" mudstone.

AP1030 PF: At 305' 2" claystone lens.

1977 Alaska Peninsula Field Party Notes

14 July to 30 August

Wm. Connelly

14 July 77; Recon From Sandy Point; Good Weather

1) Unga Conglomerate at Cape Aliaksin

Heavy mineral laminations common; looks like typical beach deposits; X-beds reach 15' thickness; paleocurrent bimodal NE & SW, i.e., parallel continental margin; Channels common; some burrows; many fossils, including Mytilus and Swiftopecton Don Miller. Some thick beds of conglomerate, locally with reverse graded bedding. Conglomerate lags generally occur at base of large X-bed sets; sand rich in plagioclase with some quartz (maybe 20%). No obvious primary volcanic debris but pyroxene grains are common. Carlos Pierce says 350 md., 30% Ø.

2) Stepovak Formation, McGinty Point

Mainly mudstone at base with medium- to coarse-grained sandstone, many concretionary layers. Muscovite common here; much volcanic feldspar, probably high albite or sanidine; some unknown red grains. True wacke with abundant matrix (up to 25%); pebbles are matrix supported and well polished.

Fossils scarce; include oysters and Acila (Bob Scott says this occurs in bays, open marine, nonbrackish, muddy bottom).

Conglomerate at middle of section: contains abundant shell fragments; pararudite; clasts up to 2', most pebble size; includes mainly informational clasts such as volcanic arenite and andesite.

Ripples here are asymmetric current ripples with some interference. Coaly layers occur locally. Most of section very thin-bedded siltstone/mudstone; single X-bed at top of section 2.5' thick.

Conclusions:

Section proceeds from bottom to top:

1) Mudstone--deep
2) Conglomerate--shallow
3) Silt/mudstone--deep

This suggests a regression then a transgression. Paleoenvironment: literal to subliteral with little influence from storms; perhaps a protected bay with bottom currents.

3) Zachary Bay, West Side, White Cliffs; Unga Conglomerate

Well-developed X-beds with abundant pumice and local tuff(?) beds. Thick coal seam at beach level and some thin seams above. Trough X-bedding not uncommon; paleocurrent indicators oriented in many directions.

Conclusions:

Sequence generally nonmarine as indicated by poor sorting, poly modal paleocurrents, and lack of marine fossils. Rocks deposited during time of extreme volcanic activity as indicated by abundant primary volcanic debris.

4) Petrified Forest, NW Unga Is.

Many trunks in growth position engulfed by volcanic agglomerate. Agglomerate consists of homogeneous angular andesitic clasts in fine volcanic sandstone matrix; Lahar deposits? Outside of trunks carbonized; some go to opal, most go to calcedony. Some trunks are huge, possibly 5' diameter.

5) Central portion of west half Unga Is.

Rocks here are lava flows with abundant analcite amygdules; not Unga Conglomerate as shown by Burk.

16 July 77; Belkofski Formation; Clear, Sunny, Calm

1) Belkofski Bay, Belkofski Fm.; Misty, Murky Section.

Most of section is volcanic breccia and lapilli tuff; most is waterlain but some may be ignembrites. Center of section has coaly and carbonaceous beds and several mud layers.
Locally see this microstratigraphy:

Volcanics are mainly andesite with no Fe-Mg minerals preserved; platy jointing nearly ubiquitous; purple and brown.

2) Belkofski Bay, Belkofski Fm.; Seaweed Cove Section

Mainly medium-bedded sandstone with well-developed planar and trough X-beds, commonly 5' thick. Poor in quartz, much matrix and plagioclase, granules and pebbles commonly suspended in sandstone. Carbonaceous layers common at base of X-bed sets. Granule and pebble lags are very common at base of each X-bed set. X-bed paleocurrent pattern not simple. No fossils observed.

Conclusions:

Likely a shallow marine shelf in high-energy conditions. Large clasts of andesite which sporatically lie on bedding planes may be volcanic ejecta. I cannot explain the lack of marine megafossils.

18 July 77; Ridge Above Chichagof Bay; Sunny, Hot, Calm

Recon of Stepovak Formation to compare with American Bay section.

1) Sandstone and mudstone with spheroidal weathering; projects to fault in American Bay Section. Platy parting in sandstone; medium grained; flasier bedding not uncommon; megafossils common. Passes into several hundred feet of very fine-grained sandstone to mudstone; occasional medium beds of sandstone with granules to pebbles suspended in sand and flasier bedding.

2) Section up to ridge has been mainly fine-grained sandstone to mudstone with poor exposures. Occasional beds of resistant sandstone; some fossils. Ridge is resistant medium-grained sandstone with medium bedding. No X-beds observed.

3) Going through a thick section of flasier-bedded sandstone with many fossils. Found Acilla and Mactra.

4) Lahar bed with mud matrix and andesite clasts. This probably is what is mapped as "flow" in American Bay Section. This location just up mountain from 3.

5) Lunch stop at top of ridge. Another Lahar and possibly a flow; good evidence for lenticularity of some of these units. Flasier bedding locally evident only up to 4.

6) Bedding: N70°W 26°SW at flowers in saddle. All siltstone with occasional thin sandstone beds with flasier bedding.

7) Bedding: N80°W 23°SW at white platy sandstone. Not much to say about section between 5 and here: monotonous section of siltstone with occasional sandstone layers with flasier bedding.

8) Passed through 100-150' massive sandstone with some thin interbeds; medium-grained, no fossils, no flasier. Went down into flasier, then a flow 50' thick. Long section of siltstone with little structure and no fossils; one layer found with bioturbation and several poorly preserved clams. Several small zones with graded beds and sharp bedding which resemble turbidites--very poorly developed, however.

9) Bedding: N75°E 10°SE along creek below 8. Monotonous sandstone sequence with no sedimentary structure. Medium-grained; medium to thick bedded; wavy partings.

19 July 77 AM; Recon of Phillip's Ivanof Bay Section, Sunny, Warm, Calm, High Clouds

Bedded sandstone comprises most of the section from the tidal flat to this midpoint in the section (along the east side of the Bay). X-bed sets are up to 5' thick with granule lags along X-bed laminea; grain size is medium to coarse; some trough X-beds.

Passes into rippled sandstone with many black carbonaceous shale layers. Plant material is very abundant: includes evergreen and diciduous leaves. Sandstone contains much quartz and has fair porosity. Looks generally similar to Belkofski Formation at the head of Belkofski Bay (i.e., Seaweed Cove Section).

West side of Bay contains many layers of lava several hundred feet thick; the lava apparently overlies sandstone. Also, the layer of conglomerate up the beach from the sandstone section (east side) is volcanic agglomerate. Section is generally reminiscent of Belkofski Bay Sections.

19 July 77 PM; Recon of Korovin Is. Tolstoi Formation, Clear, Sunny, Hot, Windy

Sample AP 2000 PP Grab sample of Tolstoi Formation sandstone; white, fair porosity, marine sandstone.

Gravel lags are common; Calianasa burrows with corncob structure are also common. These are true beach deposits with abundant burrows up to 3' vertical. Some X-bedding up to 1' but very subtle; mainly parallel laminations. Quartz is moderately abundant in sandstone; fair porosity.

Passes up section into friable black siltstone with no structure.

20 July 77; Recon of Eocene Sections at Pavlof Bay, Coal Bay, and McGinty Point; Warm, Dry, Breezy, Overcast

1) Pavlof Bay, East Side, North of Pavlof Bay Section.

Good section of white sandstone shelf deposits with X-beds up to 2' thick. Not much mud matrix in sandstone; mainly quartz. Similar sections seen at Ivanof Bay and at Belkofski Bay.

2) Lower Portion of Pavlof Bay Section.

Some scour-fill structure in white sandstone very similar to 1. Minor X-beds. Passes into thin parting sandstone; thin-medium bedding. Collected some fossils here, probably mud dwellers (redeposited?). Paleocurrents mainly north. This section fines up, implying deepening up-section.

3) Stepovak Formation at Tolstoi Peak.

Agglomerate with muddy matrix and pyroxene andesite clasts. At least three types of volcanic debris but fairly homogeneous. Extremely coarse grained and angular; bedding not apparent. Dikes and sills abundant.

4) Easternmost End of Coal Bay.

Section is mainly thin-bedded siltstone with occasional sandstone layers. Some Ascilla found at this end of beach.

5) West End of Coal Bay Section

Thinly interbedded tuffaceous mudstone and tuffaceous sandstone. Some hint of graded beds. No obvious sedimentary structures implies quiet water deposition. Some coal at bottom of section, but a fault (possibly a major fault) separates end of section.

6) River Mouth Between Coal Bay and McGinty Point

Thick section of volcanic flows, agglomerate, and volcanic conglomerate is exposed between Coal Bay and here. Rocks here are mainly volcanic conglomerate and coarse volcanic sandstone with planar X-beds 15-20' thick. Paleocurrents are to east. This is mapped as Unga Conglomerate but I suspect it may be Eocene because of great abundance of volcanic debris.

7) McGinty Point Section

Thin-bedded sandstone with abundant ripples showing paleocurrent perpendicular to Peninsula. Tuffaceous sandstone beds are common. Many shaly layers. Passes into thick conglomerate down section. Conglomerate contains rounded clasts of sediment and igneous rocks: it is not an agglomerate or mud flow.

21 July 77; Ivanof Bay; Measured Bottom of Ivanof Bay Section; Weather marginal (see notes on Section; measured from bottom to top).

23 July 77; Ivanof Bay; Measured Ivanof Bay Section; Sunny, Clear, Calm, Warm
(notes on Section)

Summary of Ivanof Bay Section (2200' to 5800')

Began in shale and sandstone with trough X-beds. Saw several sequences where shale progressively replaced sandstone up section and looked like channel-fill, possibly on a delta. Today's section began with a channel-fill sequence and passed into fluvial beds with abundant pebble to cobble conglomerate. Lenses of conglomerate common. X-beds with medium bedding are common. Bedding is irregular and looks like typical fluvial deposits. The section passes up into some shale and coal with very abundant leaves. This goes back into coarse fluvial sandstone deposits; lava flows with tree stumps and burnt wood are common.

Generally, this may have been a prograding delta that reached subareal fluvial conditions; many red beds.

27 July 77; Recon of Bear Lake Area; Broken Clouds, Calm, Dry

1) Tachilni Fm. on East Side of Milky River Ridge.

Somewhat similar to Milky River Section but much more conglomerate. Many small-scale X-beds and scour-and-fill structure. Layer of agglomerate here appears to be a lahar deposit covering an uneven topography because of irregular lower surface; exposure poor so we cannot be sure. Agglomerate composed of plagioclase-pyroxene andesite and is very dark gray; occasional clasts of plutonic rock.

Contact between overlying agglomerate and underlying white tuff is quite planar. This may be because tuff is several hundred feet thick and leveled topography prior to later desposition. This stratigraphy can be seen on ridge adjacent to Bear Lake and may be a good marker bed.

3) Ridge Southwest of Bear Lake; Bear Lake Fm.

Too poorly exposed to see sedimentary structures but generally appears to have same lithologies as Milky River Section. Located three fossil horizons and collected.

Sample AP 2040 F includes pelecypods and gastropods.

Goes up-section into tuff-breccia, then to agglomerate; probably Lahar: upper Bear Lake Fm. or Tachilni Fm?

Summary: Top of Bear Lake Formation apparently marked by an erosional surface which is overlain by a volcanogenic unit named the Tachilni Formation. The Bear Lake Formation mainly is composed of sandstone, conglomerate, siltstone, and minor coal; the Tachilni consists mainly of flows, agglomerate, and tuff.

28 July 77; Milky River Section; Measured Top to Bottom; Foggy, Cool

Begin section at 2200' on map, 2375' on altimeter. Could not continue to top of section because of very

steep cliff on ridge. Will arbitrarily start Leg B of section at 300' and adjust later. White cliff above us is tuff and is mapped as Tachilni Formation.

31 July 77; Leg C Milky River Section; Broken Clouds, Good Weather, Dry

Conclusions:

Began section in shale-rich unit with many coal seams and much sandstone. Passed into sandstone-rich unit. No burrows or fossils. Passed down into shale with coaly layers and occasional bentonite (this section is very thick). Then down to sandstone and shale with coal; then back into siltstone. Still no burrows or fossils. Down into coaly unit with sandstone and siltstone. Then whappo, into shallow marine, possibly lagoonal with rare burrows and fossils. Then double-whappo, into marine shelf sandstone with abundant burrows and occasional fossils. Very poorly sorted and matrix rich, looks like shelf below wave base. No X-beds and only occasional ripples noted. This sudden change of facies reflects a change from Miocene to Eocene.

1 Aug 77; Recon of Section Below Bear Lake Formation at Leg D Milky River Section and Locate Good Tachilni Formation Section on Milky River Ridge

1) Section at base of Milky River Section is mainly black fractured siltstone with minor sandstone. Burrows are common; no fossils observed. Looks to be a relatively deep marine environment. These rocks are almost definitely Eocene.

2) Contact between Bear Lake Formation and Overlying Tachilni Formation on Milky Ridge.

Looks as though beds in Tachilni Fm. about 300' above contact are planar and that rocks beneath this point are chaotic megabreccia. A possible explanation for this is that Tachilni was deposited over a rough topography. Possibly a large uplift and erosional event followed Bear Lake deposition. This uplift deformed some Bear Lake rocks and left a large erosional unconformity. Tachilni deposition then filled "lows" in Bear Lake topography with coarse volcanic agglomerate and breccia. Continuous planar-bedded Tachilni then occurs when Bear Lake erosional surface was leveled. Alternatively, there may be a structural break at the contact.

3 Aug 77; Recon With Denver Division Visitors: Brooke, Hartman, Davis

Tachilni Formation sandstone at Cape Tachilni. Very dirty sandstone with pyroxene and plagioclase and less than 20% quartz. Brown outcrop; some ripple laminated siltstone; X-beds up to 5'. Occasional pebble conglomeritic layer with articulate pelecypods.

Sample AP 2116 F Pelecypod sample collected from Tachilni Fm.

5 Aug 77; Recon of Mesozoic Rocks With Brooke, Hartman, and Davis; Visit Probable Bear Lake Fm. SW of Veniaminof

Small valley near Phillips' Veniaminof Section. These rocks most closely resemble Bear Lake Formation even though mapped as Stepovak. Fairly good sandstone with suspended pebbles.

Samples 2117 Pf Probable Bear Lake Fm.
2118 PP " " " "
2119 Pf " " " "

Section very cut with dikes. More indurated here than usual, but explainable by heat flow associated with dikes. Most of section along these ridges appears to be Bear Lake Formation, not Stepovak.

Sample 2120L Grab sample of sandstone from Coal Valley mbr of Chignik Formation at Herendeen Bay. Section here is mainly fanglomerates with local coal layers. Conglomerate contains mainly rounded volcanic and sedimentary clasts with some plutonic clasts. (This section was measured by us on 12 Aug: Coal Bluff Section.)

6 Aug 77; Continuation Down-Section in Milky River Section; Breezy, High Clouds, Cool, Nice, Dry

Stepovak(?)-Bear Lake Contact

Bedding:	Miocene	Eocene
	N39E 39 NW	N70E 39 NW
	N60E 39 NW	N70E 39 NW
	N55E 33 NW	N66E 40 NW
		N60E 32 NW
		N55E 32 NW

This collection of attitudes was taken on either side of the supposed Miocene/Eocene contact between units 29 and 30 at the first prominent hog back in Leg D. Rocks above the contact are coaly, less indurated, and sandstone is more homogeneous without bioturbation. Sandstone below is thinly laminated with shale, bioturbated, gray, ripple laminated, and looks like shallow shelf sediments (below wave base). Our measurements do not indicate a significant angularity at the contact.

7 Aug 77; Ivanof Bay Section, Uppermost Portion; High Clouds, Calm, Dry, Warm

Summary of Top Ivanof Bay Section:

Section began in dominantly fine-grained sandstone and siltstone and organic shale with no sedimentary structures; probably shallowest marine. Then we started finding volcanic microbreccia up section, but only as thin interbeds; we still saw no sedimentary structures but bedding was good. Volcanic sandstone with tuffaceous clasts became more abundant up section, but there were still local beds of quartz-rich sandstone in the fluvial units.

Section passed up into a dominantly shale section with coaly layers and leaf impressions. Then it passed up into volcanic flows, implying a subareal environment. These flows were followed by fluvial deposits with volcanogenic material as below, but with an obvious fluvial environment of deposition. These fluvial deposits fine upward. This fluvial unit is the thickest thus far in the section. The section ends in a thick unit of andesitic rock. It is unknown if this is a sill or a series of flows or a small intrusion: most likely it is a large sill.

9 Aug 77; Recon Section at Sandy Lake Ridge; Light Drizzle

Outcrop sketch showing horizontal beds above and below and chaotic interval in the middle. Section looks like a mega-slump.

Begin Sandy Lake Section at 200' altimeter. Lee Smirnoff is taking notes, Greg Brown is collecting samples. Tachilni Formation.

Conclusions: Top Sandy Lake Section.

We tentatively interpret this section as Tachilni Formation because of the abundance of volcanogenic debris and because of lack of Mytilus even though extremely fossiliferous gravel to cobble beach deposits are common. The section is divided into two basic units:

1) The upper unit is mainly sandstone with some conglomerate.

It looks like beach and shallowest marine shelf deposits with intense bioturbation and many fossils; fluvial-type deposits engulf the sandstone and leave an underlying living-assemblage of clams. These conglomeratic units may have been deposited at the mouths of streams during flooding. These floods and rapid sedimentation were catastrophic events that killed all clams.

2) The lower unit is mainly fine- to very fine-grained sandstone with no resistant beds, no obvious X-bedding, and many fossils and bioturbation. Sorting is not as good as above. Rocks are finer grained and energy most likely was less. These observations imply a deeper environment, probably a marine shelf below wave base.

The Sandy Lake Section stopped at a major angular unconformity where nearly vertical lower beds are overlain by a coarse basal conglomerate of presumed Tachilni Formation. The underlying unit has coal, sandstone, flasier bedding, and abundant quartz in the sandstone. Generally it looks like Bear Lake Formation. We will examine rocks below this contact tommorrow.

11 Aug 77; Continuation of Sandy Lake Section, Leg B From Unconfirmity Down; Weather Windy, Sunny, Warm

Near the contact between the Tachilni and Bear Lake Formations (in the Milky River Section) the attitude of bedding in the Tachilni is about the same as in the Bear Lake but right at the contact there are large highs and lows on the Bear Lake surface. This implies an erosional unconformity. The sketch below shows a large slump unconformity at contact between Tachilni and Bear Lake Formations.

This slump feature occurs at the same stratigraphic level in the Milky River Section as in the Sandy Lake Section. Below is a sketch of the contact in the Sandy Lake Section.

Possibly slumping occurred during the Tachilni uplift which occurred shortly after Bear Lake sedimentation ceased.

View of Milky River Section from Sandy Lake Section; shows unconformity at top Bear Lake Fm.

12 Aug 77; Herendeen Bay, Coal Valley Mbr of Chignik Formation; Measured From Top to Bottom; I am Recording, Weather is Drizzly

18 Aug 77; Recon of Pumice Creek Area; Windy, Overcast

1) First major creek past Cinder Creek on Pumice Ridge. Entirely volcanogenic rocks, mainly lava. Sedimentary rocks are so volcanogenic they often are impossible to distinguish from lava. Many bake zones occur beneath flows. Exposure is poor to rotten: much alder and lichens cover rocks. Small faults are abundant. Section appears to be the flank of a strata volcano, probably of Eocene age.

2) South of peak 2930', near Pumice Creek. Section here worth measuring but probably only about 1000' occur before it passes into the overlying lava flows. Petrified wood, bentonite, ignembrites, fluvial deposits, sandstone, and some siltstone beds are present. Section continues up section, but not down. Entire up section interval is lava. Note: This section has already been measured and is called the Amoco Cinder River Section #230.

3) Cub Lake Ridge Area

   Generally the same stratigraphy here: basic lavas are in the upper portion and white tuffaceous rocks are in the lower portion. Very poor section to measure because almost no sedimentary rocks are present.

   Sample AP 2173C Grab sample of tuffaceous rock in lower portion of section. Note: This section has been measured and is called the Amoco Cub Lake Mountain Section.

4) "Tolstoi" Formation across valley to south from Cub Lake Ridge (near Old Creek). These are thin-bedded sedimentary rocks; gray/brown sandstone is medium-fine grained, poorly sorted, subangular, and with poor porosity.

Sample AP 2174 Pf Grab sample of gray/green siltstone with carbonaceous plant fragments.
Sample AP 2175 Pf Same as above but from different bed.

5) Supposedly in Eocene section, close to peak 2675'. Fluvial sequence.

Sample AP 2176 Pf Grab sample of siltstone.

Many leafs, woody imprints, coarse fluvial deposits, and some siltstone and sandstone. I believe this is Eocene, not Cretaceous as shown on Burk's map.

Note: See Amoco Painter Creek Mountain Section: 2680' of Eocene and Paleocene(?) rocks measured here.

6) Aniakshak Volcano

Sample AP 2177 MS Good lava from inside coldera; andesitic. This is a resergent coldera with many mote cones along ring faults.

7) Between Bluff Creek and Landlocked Creek (between Chignik Bay and Port Heiden); Meshik or Tolstoi?

All rocks are volcanic here, but at the mouth of this canyon, Meshik was conglomerate. Burk probably distinguished Tolstoi from Meshik simply by whether they are dominantly volcanic or nonvolcanic.

8) Continue up Bluff Creek to its head in Naknek Formation.

Sample AP 2178F Grab Naknek fossils (Buchia?)
Sample AP 2179C Grab Naknek arkose

Most rock is dark gray siltstone with medium bedding. Locally there are beds of white arkose. Sometimes there are angular cobbles/pebbles of granite lying on bedding planes. Rocks are marine, as shown by abundant pelecypods. Rocks are intensely jointed.

Summary of Eocene in Cinder Creek, Pumice Creek, and Painter Creek Area:

Rocks here are mainly lava and have been measured by Amoco in past years. Rocks between Pumice and Cinder Creeks are described by our Cinder River Section (230). I do not understand why Pf samples did not yield from the 600' to 1200' level.

Rocks between Pumice and Old Creeks mainly are poorly exposed lava and are not described on previous sections. Rocks between Old and Painter Creeks are described by our Cub Lake Mountain and Painter Creek Mountain Sections (Cub Lake is stratigraphically above Painter Creek (possible fault between the two); there is a large undescribed interval between. The Cub Lake section is mainly volcanic rocks, with mafic flows (Oligocene Geochron) in the upper portion and felsic ash and sandstone below. At least part of Painter Creek Mountain is fluvial deposits. These rocks are mapped by Burk as Cretaceous but our Paleontology indicates an Eocene age.

None of these Eocene rocks resemble the Lower Ugashik Lake Section of granitic conglomerates.

Apparently Burk generally maps Eocene volcanic rocks as Meshik Formation, and Eocene sedimentary rocks as Tolstoi Formation. This is certainly true in this area and mostly true at the Windy Ridge area. The exception is the sequence of conglomerates just below the good Miocene in the Windy Ridge Section which is mapped by him as Meshik Formation. This passes down section into volcanic rocks, which, in turn, passes down into bedded Eocene sedimentary rocks which are called Tolstoi Formation. I believe the terms Meshik and Tolstoi Formations are useless, and in fact, misleading; without Burk's map in hand, no one would be able to even closely duplicate Burk's Eocene map units.

19 Aug 77; Recon Wide Bay Area; Foggy

1) Hot spring next to Mt. Chiginagak on north side. These springs are related to this active volcano. Some calcite crust on the hot spring implies that temperatures are not too hot. There are many other small hot springs in the area.

   Sample AP 2180 MS from flank of Mt. Chiginayak.

   There are extensive exposures of Staniukovich Formation, Chignik Formation, and Coal Valley mbr. here but all are badly cleaved.

2) Sample AP 2181G Granitic sample from Agripina Bay, outside Wide Bay. Hornblende is chloritized but feldspar looks fresh.

3) Kialagvik Formation at Wide Bay

   Mainly black siltstone beds with some fine-grained sandstone. Occasional belemnites are present.

21 Aug 77; Continuation of Windy Ridge Section, Leg B, C, D, E; Weather Excellent

22 Aug 77 AM; Cape Seniavin; Foggy, Calm

1) Bedding: N0°W 27°E Maar Volcano deposits. Rocks are composed entirely of vesicular glassy dark brown angular volcanic clasts. X-beds occur locally. Much lapilli is present. Volcanic bombs commonly deform soft sediment.

2) Bedding N20°E 29°NW. Major change in attitude occurs across a fault here. Still in Maar deposits.

   The topography at Cape Seniavin forms a half circle of elevated ground. Maar deposits occur at both high areas at coast. These facts suggest this circular structure is a Recent Maar volcano with a central depression.

   Sample AP 2221 MS Flank of Veniaminof Volcano; two MS samples taken.

22 Aug 77 PM; Continuation at Windy Ridge Section into Eocene; Weather Foggy and Rotten

Leg E: Includes the altered igneous rocks southeast of Leg D.

1) Leg F includes the small hogbacks in section 14 near peak 1137' (near tiny lake) Bedding: N65°E 37°NW, N58°E 40°NW

23 Aug 77; Recon of Meshik Formation at Kujulik Bay; Foggy, Some Drizzle

Northwest Innermost Kujulik Bay Our helicopter traverse across the north side of the bay revealed a section consisting almost entirely of lava flows and coarse volcanic agglomerate. We flew up the east-west canyon with a small lake (with Δ Julik at canyon mouth) and found no difference between lava flows mapped as Tolstoi Formation and those mapped as Meshik Formation.

1) Near mouth of Kujulik Bay.

Sample AP 2224G Large andesitic clast in agglomerate with good hornblende. Most clasts are pyroxene andesite. This sample was dated at 33.1±1.8 my BP.
Sample AP 2225L Sandstone composed entirely of volcanic debris.

Stumps are engulfed in volcanic agglomerate and are in growth position (see Smirnov's notes).

2) Steep cliffs of agglomerate on southwest side of Kujulik Bay; entire area is volcanic agglomerate with clasts up to 4' across.

3) Sample AP 2226G Hornblende andesite with fresh hornblende; Sample AP 2227G collected from the southwest tip Kumliun Peninsula; mainly volcanic agglomerate but with local flows. This sample was dated at 50.1±4.2 my BP (hornblende extract) and 34.2±1.7 my BP (whole rock).

4) Devils Bay

Sample 2228G Biotite-hornblende quartz monzonite. Biotite dated at 8.7±.4 my BP.
Sample 2229G " " " " "
Samples very fresh and good for dating.

5) Devils Bay; different location; more granite for dating

Sample 2230G Biotite-hornblende quartz monzonite. Biotite dated at 7.6±.3 my BP.
Sample 2231G " " " " "

6) Tolstoi Formation in Kuiukta Bay was thin- to medium-bedded sedimentary rocks, not agglomeratess and flows as in Meshik Formation.

Conclusions:

Meshik Fm. of Kujulik Bay and Kumliun Peninsula consists entirely of pryoxene andesite and hornblende andesite flows and coarse volcanic agglomerate. Locally stumps and trees are in growth position and indicate a subareal environment. Paleo-north determinations from these stumps average about N40°E to N60°E and are similar to determinations from the Unga Is. petrified forest. This makes me wonder if Unga Conglomerate of Unga Is. is equivalent to Meshik Formation in this area.

Most rocks mapped as Tolstoi Formation in this area appear to be sedimentary, but time was short (as was fuel) and we didn't stop to examine them. Granite was collected at Devils Bay for dating. Most likely this is an Eocene or Pliocene pluton and marks the axis of the Eocene or Pliocene magmatic arc.

24 Aug 77; East Veniaminof Section; Bear Lake Formation; Foggy, Drizzle, Lee Smirnoff Recording

These Bear Lake Formation exposures are preserved only because Veniaminof volcanics form a cap rock. The section lies midway between the Milky River/Sandy Lake

Sections and the Windy Ridge Section so it will be important for paleoenvironment reconstructions. See Lee Smirnoff's notes for details of section.

24 Aug 77; Leg G of Windy Ridge Section

Starting at elevation 1460' in Section 13 NE/4 T42S, R59W; measuring down-section in very steep ravine. See section for description.

25 Aug 77; Meshik Formation West of Aniakchak Volcano; Weather Foggy, Dry

1) Sample AP 2246 Pf) Siltstone
Sample AP 2247 Pf

Mainly pebble conglomerate with volcanic clasts; mountain top is flow or sill.

Sample AP 2248G Tuffaceous conglomeratic sandstone containing abundant biotite and hornblende for dating. Hornblende dated at 35.0±2.8 my BP. Looks like the tuffaceous unit in northeast Veniaminof Section yesterday. Sequence here looks fluvial.

2) Top of Windy Ridge section at 1600' in Section 31 T42S, R59W. Probably in the Tachilni Formation but the fog is low and we are unable to be sure: Certainly these rocks overlie Leg A of the Windy Ridge section.

Sample AP 2249G
Sample AP 2250G Hornblende andesites form huge clasts in this agglomerate; probably a Lahar. Clasts are probably primary volcanics. Sample AP 2249 dated at 22.0±2.4 my BP (hornblende).

Bedding: N75°E 14°NW. Bedding attitude comes from a minor siltstone layer about 2" thick in the volcanic agglomerate unit.

Sample AP 2251 Pf Siltstone described above.

Matrix of the agglomerate is poorly sorted, fine-grained mudstone with abundant tuff and hornblende crystals. Most clasts are hornblende andesite.

28 Aug 77; Cape Kaguyak Area; Sunny, Windy, Warm, Smoky

1) Small Islet Southwest of Cape. Herendeen-like limestone with many sedimentary structures and rythmic bedding. Bedding: N20°W 13°NE. Calc-arenite, light gray, thin layered. Channels are common in calc-arenite. Many horizons with Inoceramus fragments and granule clasts. Limestone is channel X-bedded.

Sample AP 2253 Pf) Shale below calc-arenite
Sample AP 2254 Pf

Summary of locality 1): Many low-angle X-beds (or mega-scour and fill structures?) with horizons of broken shell fragments. I believe this sequence of rocks was deposited on a shallow marine shelf within wave-base. Smirnoff believes it was deposited deeper because of rythmic bedding. Most is fine-grained calc-arenite. The stratigraphic sequence is shown below:

2) Just Beyond Kaguyak Spit, Working Down Section.

Sample AP 2255 PP Looks identical to Sample AP 2252; same stratigraphy here with black shale below white to medium-grained sandstone.

3) Tyonek Formation Exposed Northeast of Swikshak.

Mainly white/buff feldspathic sandstone with X-beds; conglomeratic. Many thin pebble conglomerate lags. Paleocurrent from one measurement is approximately to the southwest. Conglomerate contains volcanic, plutonic, metamorphic, and quartz clasts. It probably is more plutoniclastic because it is nearer to Jurassic plutons. Almost certainly beach to shallowest marine environment of deposition and not fluvial. It looks just like the Bear Lake Formation elsewhere, except here it is mapped as Tyonek Fm.

4) Beach west of Swikshak in Kaguyak Formation working up-section collecting and measuring paleocurrents. See map for sample distribution and Smirnoff's summary of paleocurrent data.

Conclusions:

Stop 1 was limestone and white calcareous sandstone with low-angle X-beds; appears to be shallow marine calc-arenites, possibly Herendeen limestone. It contained abundant Inoceramus and belemnites, most of which were broken and deposited in specific thin horizons less than 2" thick. These calcareous beds are underlain by dark gray calcareous shale which likely were deposited in deeper water. On the sand spit at Kaguyak Point (north side) we found a similar sequence with white calcareous sandstone overlying black calcareous shale. This shale was structureless and contained abundant Buchia and some bryozoa. The section is very poorly exposed along the spit.

Stop 4 was on the east-west shore west of Swikshak. The Kaguyak Formation here is entirely thin- to medium-bedded turbidites. Paleocurrents are scattered but cluster with a trend close to northeast-southwest (mainly nondirectional tool marks). The general stratigraphy of the area apparently is:

29 Aug 77; Continue Up Section From Where We Left Off Yesterday in Kaguyak Formation on Beach at Kaguyak

See map and section for samples and locations.

30 Aug 77; Sunny on Pacific Side; Recon of Naknek Formation; Finish Kaguyak Section

1) Canyon east out of tidal flats of Akumwarvik Bay, near peak 1975' at 600'; Section 7-T14S-R28W

Abundant Buchia in float; 2 ammonites seen. Bedding: N10°W 5°NE

Sample AP 3147 PP)
Sample AP 3148 L) Naknek Formation White sandstone
Sample AP 3149 L Fractured brown sandstone from just above Sample AP 3147; porosity not nearly as good as AP 3147.

Most sandstone is white, medium green, contains mainly feldspar with quartz, moderately well sorted, subangular, much biolite, fair cementation, fair porosity. Bedding is thin to medium, planer; marine sandstone; only about 10% shale layers.

Sample AP 3150 PP Same horizon as Sample AP 3147 but across creek. Has weathering rind but fresh core for PP analysis.

Sample AP 3151 PP Same as Sample AP 3147.

3) Canyon to south of stop 1, just south of peak 2550' in Section 30 T14S, R28W at 600'. Bedding N63°E 8°SE

Sample AP 3152 PP Same as Sample AP 3147

Sample AP 3153 PP Same, close to Sample AP 3152

4) Cape Chiniak (South of Kaguyak); Naknek Formation

Bedding: N17°E 12°SE

Sample AP 3154 PP Sandstone green, medium-grained, moderately sorted, subangular; mainly feldspar with an abundant biotite grains. Moderately cemented fair porosity.

Sample AP 3155 Pf)Black siltstone thickly interlayered with sandstone.
Sample AP 3156 SR)Sample AP 3154 sandstone

This black siltstone locally contains Buchia fragments.

1977 Alaskan Peninsula Field Party Notes

June 10 - August 26, 1977

L. Smirnov

June 10 Measured Foggy Peak Section at Belkofski Bay; Belkofski Fm.

June 11 Measured Seaweed Cove I Section of Belkofski Fm (lower part).

June 12 Measured Seaweed Cove II Section of Belkofski Fm (upper part).

June 13 Measured Vodapoini Pt. Section. The lowermost part of Bear Lake Fm. near covered boundary with underlying Belkofski Fm. in this area is composed by breccias, tuffaceous sandstones and siltstones, and conglomerates. No obvious correlation with Tolstoi and Stepovak Fms. There are no distinctive features inside the Belkofski Fm in the sense of development of middle stage of Cenozoic geosyncline.

June 25 Measured North Unga Island Section which is Burk's Section No. 16a. Unga Conglomerate Member of Bear Lake Fm. Lower part of section is arcosic sandstone and argillite. Upper part is breccias. The presence of arcosic sandstone means molassic shallow marine condition of sedimentation.

June 26 Measured Zachary Bay Section, which is Burk's Section 16b. A separation between this section and North Unga Island Section is indicated by a strong change of lithology between these sections. The section here is a very distinctive molassic complex (arcosic sandstone with coal) with some tuffaceous interbeds. What is remarkable is the preferred trends of paleocurrents to the west and sometimes to the east. It is approximately parallel to probable paleoslope.

June 27 Measured McGinty Point Section; Stepovak Fm; Burk's Section No. 11. Very typical section for middle geosynclinal stage, but without flysch deposits. A lot of ripple-marks with strong NE-SW strike parallel to Peninsula (or paleoslope).

June 28 Measured paleocurrent directions along beach 1 1/2 miles west of McGinty Pt.; Unga Conglomerate mbr. of Bear Lake Fm. Crossbedding sets up to 8' thick with paleocurrent trend N35°-70°E. Character of lithology, X-beds parameters, and paleocurrent trend indicate near shore marine sedimentation and transportation of sand along Peninsula parallel to paleoslope. The same for Zachary Bay Sections.

July 1 Measured paleocurrent directions at Aliaksin Peninsula; Unga Conglomerate mbr. of Bear Lake Fm. Thickness of X-beds sets up to 15'. Again a remarkable consistency of paleocurrent trends to the east. A lot of marine fossils. The same interpretation as for Unga Conglomerates to west of McGinty Point.

July 13 Investigation of petrified stumps and logs of the Unga Island Petrified Forest. There is a distinctive asymmetry of horizontal cuts of stumps and logs. 13 stumps were found in vertical position, with clear asymmetry

of horizontal cuts. There is agreement in orientation of the long axes of these cuts; preferable orientation NE-SW. I think that this asymmetry is an influence of the south. It is known for modern trees in the northern latitudes. In this sense is an interesting coincidence between orientation of asymmetrical cuts and paleomagnetic position of N-pole for Cenozoic.

July 17-21 Measured American Bay Section: Stepovak Fm. Several regressive-transgressive cycles; mainly marine. Distinctive paleocurrents parallel and transverse to paleoslope. First section with graded beds. No simple correlation with Stepovak Fm. of McGinty Pt.

July 30 Port Moller, Right Head: Bear Lake Fm. This section was measured by Amoco before. We measured only paleocurrent structures. There are two different facies: (a) deltaic with paleocurrent trend to the east to Port Moller depression, (b) tidal flat with paleocurrent trends in two opposite directions to Port Moller depression and to the shore side.

August 1-4 Measured Milky Ridge Section Tachilni Fm. Very expressive contact between Bear Lake Fm. and Tachilni Fm: Angular disconformity. Lower part of Tachilni Fm. is volcanogenic; upper part of Tachilni Fm consists from marine and subareal(?) deposits. What is the most important fact: tremendous change in the section in the north direction; thinning of lava flows and more abundant sandstones. It may indicate that in Bering Sea area, the Tachilni Fm. will be completely different than what we see on the Peninsula.

August 6 Measured paleocurrent directions of Port Moller - Left Head Sections; Bear Lake Fm. Near shore sandstones with two principal trends; west to the Port Moller depression, and north along the paloeslope of this depression.

August 9 Measured Sandy Lake Section, Tachilni and Bear Lake Fm. Tachilni Fm composed of shallow marine sandstones with abundant marine fossils. It is an important fact in sense of big lateral environmental change of Tachilni to the north (on the example of Milky Ridge Section). It is probably true that in the Bristol Bay area the Tachilni Fm. looks like pure marine claystone; this is very important because we need a regional cap-rock formation for reservoir sandstones of the Bear Lake Fm. Again two different paleocurrent trends: Parallel and perpendicular to the paleoslope. It suggests marine currents parallel to the paleoslope and density currents down the paleoslope. A sharp angular disconformity occurs between Tachilni and the Bear Lake Fm.

August 11 Measured paleocurrent directions of Mud Bay Section, Bear Lake Fm. Again two main paleocurrent trends: to the north (to Port Moller depression), and to the east (East-West along paleoslope of this depression).

August 13 Measured paleocurrent direction of North Bank of Port Moller Bay to the east from Harbor Pt. Bear Lake Fm. sorted, quartzose marine sandstones, transported to the north along probable eastern paleoslope of Port Moller depression.

August 15 Measured paleocurrent directions of the Sharon Section, South Bank of Port Moller; Stepovak Fm? Sorted quartzose marine sandstones with a strong unimodal paleocurrent trend to the NW.

August 16 Measured paleocurrent directions of the Herendeen Bay Section; Pliocene. Marine sorted quartzose sandstones with bimodal paleocurrent trend: to the north and to the SE.

August 18 Measured paleocurrent directions of the northwest slope of Mt. Dana; Pliocene. Fluvial deposits with paleocurrent trend to the east (to the Pavlov Bay depression).

August 22 Investigation of Quaternary deposits of Cape Seniavin which represent marine sandstone with a lot of volcanic debris up to boulder size. It is in connection with transverse Veniaminof volcanic zone which is a unique structural element dividing the Alaska Peninsula into two different segments.

August 23 Investigation of Kujulik Bay area Meshik Fm. Measured the asymmetry of petrified stumps. The orientation of the asymmetry (and probable paleo North-South line) is very close to the pole indicated by paleomagnetic data.

August 24 Measured NE Veniaminof Mt. Section; Bear Lake Fm. Very distinctive changes of the sedimentation conditions from fluvial-lagoonal deposits with coal to shallow marine environment with sorted quartzose sandstones. Bimodal paleocurrent system.

August 26 Measured Windy Mt. Section; Pliocene? Section composed completely of agglomerates, volcanic conglomerates, and sandstones.

LS/rl
3/343

1977 ALASKA PENINSULA

FIELD PARTY NOTES

Greg Brown

Section:	Coal Bay
Date:	22 June 77
Recorder:	Brown
Sampler:	Pierce
Formation:	Stepovak
Location:	Sec 32, 33, 34, 35 T55S-R78W; Measuring down section, west to east.
Weather:	50° F, overcast with light winds; some bears.
Remarks:	Section begins in the small cove located at the westernmost end of Coal Bay. The area has been significantly affected by faulting; however this starting point appears to be the uppermost portion of the exposed Stepovak Fm in this area. The exact relation of this Coal Bay section to the Pavlof Bay section is uncertain. Hopefully a paleoentological correlation can be made with the interbedded siltstones of the Pavlof Bay area. We began where we did because it was the apparent uppermost exposure of the Belkofski Fm.

Section: Kitchen Anchorage

Date: 16 June 77

Geologists: Brown, Williams, Smirnov

Formation Belkofski

Location: Sec 35 T58S-R85W, measuring down section from geographic top of section; top of the Ridge above Belkofski Bay; this is a remeasure of Amoco Section 201. Horizontal bedded rocks with vertical dikes; top of section capped by an andesite flow; bottom of section at sea level. Porosity is very poor in all the green bedded rocks. The rocks are medium- to coarse-grained sandstone with interbedded tuffaceous breccias.

Section:	Balanced Rock
Date:	8 June 77
Recorder:	Brown
Samplers:	Williams, Smirnov, Pierce
Formation:	Belkofski
Location:	N/2 E/2 Sec 14 T58S-R85W; measuring up section.
Weather:	Light drizzle & fog, 50° F, calm
Remarks:	Section begins at the stratigraphic lowest exposure above sea level. Occasional jointed. No visible structural complications, relatively undeformed. Top of section is the last outcrop exposed.

Section:	American Bay
Date:	17 July 1977
Recorder:	Brown
Samplers:	Scott, Smirnov
Location:	Sec 5, 8, 17, 20 T52S-R79W
Remarks:	Measured down section along the southern limb of the anticline towards the axis of the anticline where the section ends.

Section: Misty Ridge - Leg B

Date: 9 July 77

Recorder: Brown

Samplers: Williams, Smirnov

Formation: Tolstoi

Remarks: Measuring down section. Section is measured in a series of legs; hopping from one ridge to another beginning with the upper Stepovak Fm, then the Tolstoi Fm and ending in the Hoodoo Fm.

Daily Log

Alaska Peninsula Field Project 77-23

Bill Connelly

17 July 77 Lee Smirnoff and Bob Scott measured American Bay Section while Greg Brown and I corrected thickness of yesterday's section. Weather fantastic all day.

18 July Pierce, Smirnoff, and Dale flew to Cold Bay to drop off Pierce. Smirnoff used helicopter on return trip to study lowlands. Scott, Brown and I traversed inland above Chichagof Bay to compare with American Bay Section.

19 July AM: Smirnoff and Scott finished American Bay Section. Greg and I scouted Ivanof Bay Section. PM: Traced conglomerate bed from American Bay Section to ridge above Chichagof Bay. Returned to Sand Point early and dropped off Smirnoff and Brown; Scott and I went to Korovin Bay, Korovin Is, to look at Tolstoi Fm.

20 July Spent day looking at Pavlof Bay, Coal Bay, McGinty Point, and Cape Aliaskan for comparison of paleoenvironments.

21 July Began measuring Ivanof Bay Section; completed 2000' of section. Weather turned bad in late afternoon and trip back to Sand Point was difficult. Pink and dog salmon are running.

22 July Rain, wind, and poor visibility kept us at Sand Point. Spent day working with paleocurrent data, reading, buying supplies, washing, and shipping samples. New mechanic arrived in PM.

23 July Continued Ivanof Bay Section. Finished a bit early so we caught some salmon for dinner.

24 July Spent AM preparing gear to move to Bear Lake. Began raining at 1:00 PM and progressively got worse. Don Johnson unable to fly through pass from Bear Lake, so we stayed at Bill Eubank's house for $45/night.

25 July More rain. Reeve Aleutian Airways made it in to Sand Point but Don Johnson was still unable to come across the Peninsula because passes were fogged in.

26 July Moved camp to Bear Lake with helicopter; took 3 trips. Kim (Peninsula Airways) will move remaining gear in Cessna 180.

27 July Recon of Miocene and Pliocene in Bear Lake/Port Moller area.

28 July Measured top portion of Milky River Section; could not measure uppermost 300' because of cliff. Completed section down to stream in valley.

29 July Completed top of Milky River Section and recon bottom portion of section. Recon of Sandy River and Sand Lake area. Weather was drizzly and windy.

30 July Rained in AM. We re-examined Amoco's sections at West Port Moller and Right Head. Looked at Coal Valley mbr., Herendeen Limestone, and Staniukovich Fm. in Port Moller area.

31 July Completed legs C and D of Milky River Section.

1 Aug Recon bottom of Milky River Section to locate Eocene rocks. Recon Milky Ridge and spent 3/4 day measuring Milky Ridge Section of Tachilni Fm. I spent PM at lodge redrafting Milky River Section.

2 Aug. Worked down through Milky Ridge Section from where we left off yesterday. Armstrong finished early and went back to welcome our visitors: Bob Brooke, Dan Hartmann, and Bill Davis.

3 Aug Smirnoff and Brown finished top of Milky Ridge Section. I led Miocene tour with visitors.

4 Aug Smirnoff and Brown spent day at Bear Lake Lodge. I led Eocene tour with visitors.

5 Aug AM: Recon with visitors to Herendeen Bay Mesozoics.
PM: Recon to Veniaminof to examine Bear Lake Fm and to Ivanof Bay to examine Tolstoi Fm. Smirnoff, Brown, and Armstrong tried to measure Bear Lake Section but had to come off ridge because of steepness and rainy weather.

6 Aug Finished bottom (Leg D) of Milky River Section and located Bear Lake/Stepovak contact. Got back to Bear Lake Lodge early and spent our time plotting.

7 Aug Completed top of Ivanof Bay Section. Smirnoff, Brown, Armstrong, and I all worked on it. Made phone calls at Port Moller in PM.

8 Aug Smirnoff and Armstrong measured paleocurrents at Right Head and Left Head in Port Moller. I stayed in and plotted Milky River Section. Rainy weather so we were unable to work inland; low fog.

9 Aug Smirnoff, Brown, Armstrong and I measured Sandy Lake Section down to major angular unconformity. We tentatively call rocks above unconformity Tachilni Fm and those below unconformity the Bear Lake Fm.

10 Aug Armstrong's flight from Port Moller to Anchorage cancelled because of poor weather, so we flew him to Cold Bay in the helicopter. We brought Anna Bell Lee back to Bear Lake Lodge from Cold Bay. Smirnoff plotted Milky Ridge Section.

11 Aug Finished Sandy Lake Section and studied Bear Lake Fm/Tachilni Fm. contact at several localities in the Bear Lake and Sandy Lake areas. Worked more on Bear Lake Section but were unable to finish because of steep terrain. Weather was fantastic.

12 Aug Measured Coal Bluff Section in Herendeen Bay in AM and part of PM. Went to Port Heiden to check fuel cache and accommodations in late PM.

13 Aug Smirnoff and Brown went to Moller Bay and measured Bear Lake Fm. paleocurrents at 3 locations; collected water sample from the gas seep at the Hot Springs. I stayed in and plotted most of the Ivanof Bay Section. Weather was marginal.

14 Aug Weather marginal again. I stayed in and completed Ivanof Bay Section and Coal Valley Section. Smirnoff and Brown measured more paleocurrents at Moller Bay. Brown found walrus tusks.

15 Aug Stormy and had to stay in. Spent day plotting remaining sections, writing summaries, and packing and sorting gear for our 17 Aug move.

16 Aug Poor weather. Day used to review previously studied areas for summary. Don Johnson had a "dead stick" landing on Bering Sea beach at Veniamanof Cinder cones. Eric took helicopter to pick up Don and his passengers; trip took one hour.

17 Aug Mailed and shipped rocks from Port Moller. Moved camp to Port Heiden. Weather rotten. Chris (Peninsula Airways) helped move camp; required 3 trips.

18 Aug Recon Pumice Ck and Painter Ck area. Refueled at Port Heiden and collected magnetic susceptibility samples from Aniakchak. Recon Black Pk anticline area.

19 Aug Measured lower Ugashik Lake Section by helicopter. Recon to Wide Bay and Agripina Bay. Arranged trip to Ilamna.

20 Aug Began making composite section at Windy Ridge but were unable to accomplish much because of 60 mph winds in mountains. Spent most of the day at Port Heiden completing paper work and inventorying gear for storage.

21 Aug Weather was good. Completed Legs B, C, D, E of Windy Ridge Section, and therefore have measured the entire Miocene Section. We still need a good tie to the Eocene and to the Pliocene.

22 Aug Fog on the desk. Went to Cape Seniavin during foggy AM and discovered sea cliffs are composed of maar volcano deposits. Went to Windy Ridge in PM and worked on Leg F. Started on Leg G but fog came down and had to quit. Greg Brown left for Anchorage after dinner on Reeve. He will put our gear into storage in Anchorage.

23 Aug Fog on the desk in AM; rose to 100-200' in PM but 1500' thick. Spent AM plotting old data. Spent part of PM examining geomorphology along NE coast lowlands. Spent remainder of PM doing recon work on Pacific side in Kujulik Bay on Meshik Fm. Went to Devils Bay to collect Pliocene(?) pluton. Came back through Chignik Lagoon pass.

24 Aug Fog down again. Went up to measure NE Veniaminof Bear Lake Section at 10:00 AM and measured in the fog. Finished at 2:30 PM and went to work on Leg G of Windy Ridge Section. Finished all accessible area of Leg G but still need to establish good tie to Leg F. Fog was too low to do that today.

25 Aug Weathered in during AM. Established a good tie between Leg F and G of Windy Ridge Section in PM. Also looked at some of Meshik Fm at SW Aniakchak. Recon for measuring Tachilni Fm at top of Windy Ridge section.

26 Aug Measured Leg A of Windy Mountain Section. Established tie to Leg B but weather turned foul so we had to describe Leg B from the helicopter. Prepared to move to Iliamna.

27 Aug Move to Iliamna.

28 Aug Recon Cape Douglas and Kaguyak areas. Begin collecting Kaguyak Fm.

29 Aug Continue measuring Kaguyak Fm. Section to top. Still need to complete section below intrusion.

30 Aug Finished Kaguyak Section and did general recon of Naknek Fm. in Kamashak Hills and found they are prospective reservoir rocks. Eric got extremely ill on flight back to Ilamna. Chartered an IFR jet to transport Eric to Anchorage Hospital (Providence); Smirnoff and I rode along. Weather foggy in the morning, cleared somewhat by 11:00 A.M., clouded up at about 7:00 P.M.

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. B-4009 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Porphyritic biotitic granodiorite. Sample AP 2184 G.
Cobble from Ugashik Conglomerate; Lower Ugashik Lake Sectio

Material Analyzed: Biotite concentrate, -40/+100 mesh.
Estimated composition: Biotite 96%; Chlorite 3%; Other 1%.

Ar^{40*}/K^{40} = .007275 **AGE =** 120 ± 5 **M.Y.**

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.03933	.591 } good.	.04116
.04298	.542 }	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
4.761	4.637	5.657
4.513		

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2184

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. R-4010 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Basalt. Sample AP 2224 G.
Kujulik Bay, Meshik Fm.

Material Analyzed: Whole rock, -60/+100 mesh.

$Ar^{40}*/K^{40}$ = .001954 **AGE =** 33.1 ± 1.8 **M.Y.**

Argon Analyses:

$Ar^{40}*$, ppm.	$Ar^{40}*$/ Total Ar^{40}	Ave. $Ar^{40}*$, ppm.
.001931	.148	.002129
.002326	.134	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.890	.893	1.089
.896		

Constants Used:

$\lambda_\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40}*}{K^{40}} + 1\right]$$

Note: $Ar^{40}*$ refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2224

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. R-4011 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Andesite. Sample AP 2227 G.
Cape Kumliun, Meshik Fm.

Material Analyzed: Whole rock, -60/+100 mesh.
– see ~~last~~ previous sheet for mineral age

Ar^{40*}/K^{40} = .002018 **AGE =** 34.2 ± 1.7 **M.Y.**

average age, both dates: 42.2 my BP

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.002771	.212	.002878
.002984	.162	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
1.164	1.169	1.426
1.174		

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda e + \lambda \beta} \ln\left[\frac{\lambda\beta + \lambda e}{\lambda e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2227

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. A-4011 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Andesite. Sample AP 2227 G.
Cape Kumliun, Meshik Fm.

Material Analyzed: Hornblende concentrate, -60/+100 mesh.
Estimated composition: Hornblende 60%; Pyroxene 40%.
- see next page for whole rock age

Ar^{40*}/K^{40} = .002972 **AGE =** 50.1 ± 4.2 **M.Y.**

average age, both dates = 42.2 m.y. BP

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.001338	.031 low !	.001338

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.366 .372	.369	.450

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2227

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. B-4012 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO

Sample Description & Locality: Biotite hornblende granodiorite. Sample AP 2228 G.
Devils Bay, pluton

Material Analyzed: Biotite concentrate, -40+100 mesh.
Estimated composition: Biotite 97%; Chlorite 2%; Other 1%.

Ar^{40*}/K^{40} = .000511 AGE = 8.7 ± .4 M.Y.

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.004375	.118	.004394
.004412	.187	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
7.112	7.051	8.602
6.991		

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda e + \lambda \beta} \ln\left[\frac{\lambda\beta + \lambda e}{\lambda e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2228

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. B-4013 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Biotite hornblende granodiorite. Sample AP 2230 G.
Devils Bay, pluton

Material Analyzed: Biotite concentrate, -40/+100 mesh.
Estimated composition: Biotite 97%; Chlorite 2%; Other 1%.

Ar^{40*}/K^{40} = .000445 **AGE =** 7.6 ± .3 **M.Y.**

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.003741	.173	.003508
.003275	.126	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
6.484	6.468	7.890
6.452		

Constants Used:

$\lambda_\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2230

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION

REPORT OF ANALYTICAL WORK

Our Sample No. A-4014

Date Received: 13 October 1977

Your Reference: letter of 3 October 1977

Date Reported: 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: ~~Volcanic agglomerate~~. SAmple AP 2235 G.
hornblende tuff (welded?).
NE Veniaminof, Tachilni Fm.

Material Analyzed: Amphibole concentrate, -100/+200 mesh.
Estimated composition: Hornblende 80%; Pyroxene (?) 10%; Adhering matrix 10%.

Ar^{40*}/K^{40} = .000934

AGE = 15.9 ± 1.8 M.Y.

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.000223	.028	.000336
.000449	.026	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.290	.295	.359
.300		

Constants Used:

$\lambda_\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

$\frac{Ar}{K}$

AP-2235

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. A-4015 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Volcanic agglomerate. Sample AP 2248 G.
SW Aniakchak, Meshik Fm.

Material Analyzed: Amphibole concentrate, -100/+200 mesh.
Estimated composition: Hornblende 95%; Pyroxene 5%.

Ar^{40*}/K^{40} = .002065 AGE = 35.0 ± 2.8 M.Y.

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.000770	.097	.000800
.000830	.062	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.329	.317	.387
.306		

Constants Used:

$\lambda_\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-2248

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. A-4016 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R. C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Dacite. Sample AP 2249 G.
Windy Mtn. Section, Tachilni Fm.

Material Analyzed: Amphibole concentrate, -100/+200 mesh.
Estimated composition: Hornblende 90%; Adhering matrix 10%.

Ar^{40*}/K^{40} = .001294 AGE = ✱22.0 ± 2.4 M.Y.

Argon Analyses:

	Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
	.000451	.055	.000500
✱✱	.000724	.038	
	.000326	.036	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.318	.317	.386
.316		

Constants Used:

$\lambda_\beta = 4.72 \times 10^{-10}$/ year

$\lambda_e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

✱✱ very high Ar content caused anomalously old age.
–See AP 2248 G for more reliable age.
AP-2249

2250

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION

24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. A-4117 — **Date Received:** 17 February 1978

Your Reference: Letter of 9 February 1978 — **Date Reported:** 24 February 1978

Submitted by: William Connelly
AMOCO Production Co.
Security Life Bldg.
Denver, Colorado 80202

Sample Description & Locality: Sample AP 2250 G. Hornblende-bearing volcanic rock.
Windy Mtn. Section, Tachilni Fm.

Material Analyzed: Hornblende concentrate, -100/+200 mesh.
Estimated composition: hornblende, 97%; matrix & other, 3%.

Ar^{40*}/K^{40} = .000877 — **AGE =** 14.9 ± 2.6 **M.Y.**

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.000397	.043	.000335
.000272	.043	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.313	.312	.381
.312		

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda e + \lambda \beta} \cdot \ln\left[\frac{\lambda \beta + \lambda e}{\lambda e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

Same location as AP2249 — this was run to check the very old (22 myBP) age from 2249.

AP-2250

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION
24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM–ARGON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No. A-4017 **Date Received:** 13 October 1977

Your Reference: letter of 3 October 1977 **Date Reported:** 25 January 1978

Submitted by: R.C. Brooke
Amoco Production Company
16th and Glenarm
Denver, COLORADO 80202

Sample Description & Locality: Dacite. Sample AP 3128 G.
Milky River
Milky River Section, Tachilni Fm.

Material Analyzed: Amphibole concentrate, -100/+200 mesh.
Estimated composition: Hornblende 90%;
Adhering matrix and inclusions 10%.

Ar^{40*}/K^{40} = .000608 **AGE =** 10.4 ± 1.1 **M.Y.**

Argon Analyses:

Ar^{40*}, ppm.	Ar^{40*}/ Total Ar^{40}	Ave. Ar^{40*}, ppm.
.000328	.031	.000316
.000303	.082	

Potassium Analyses:

% K	Ave. %K	K^{40}, ppm
.433	.425	.518
.417		

Constants Used:

$\lambda\beta = 4.72 \times 10^{-10}$/ year

$\lambda e = 0.585 \times 10^{-10}$/ year

$K^{40}/K = 1.22 \times 10^{-4}$ g./g.

$$AGE = \frac{1}{\lambda_e + \lambda_\beta} \ln\left[\frac{\lambda_\beta + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1\right]$$

Note: Ar^{40*} refers to radiogenic Ar^{40}.
M.Y. refers to millions of years.

AP-3128

TALCHILNI FORMATION (Mio/Pliocene)

Sample No. Field	Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Milky Ridge Section							
AP-3123	1375	Poor	Oil	Pre-Generation	0.5	3	.89

BEAR LAKE FORMATION (Miocene)

Sample No. Field	Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Milky River Section							
AP-2044	1236	Fair	Gas	Pregeneration	0.9	3	.64
AP-2050	1237	Fair	Gas	Pregeneration	0.7	3	.68
AP-2053	1238	Non-Source			0.3	Not Analyzed	
AP-2055	1239	Non-Source			0.3	Not Analyzed	
AP-2057	1240	Non-Source			0.3	Not Analyzed	
AP-2061	1241	Non-Source			0.1	Not Analyzed	
AP-2064	1242	Poor	Gas	Pregeneration	0.5	3	.64
AP-2067	1243	Fair	Gas	Early Gas	0.7	4	.61
AP-2069	1244	Very Good	Wet Gas	Early Peak Gas	9.0	4	.78
AP-2074	1245	Very Good	Gas	Early Gas	4.0	4	.73
AP-2077	1246	Very Good	Gas	Early to Early Peak Gas	15.6	4-5	.75
AP-2085	1247	Very Good	Gas	"	35.6	4-5	.79
AP-2088	1248	Very Good	Wet Gas	"	13.6	4	.74
AP-2090	1249	Good	Gas	"	1.4	4-5	.70
AP-2092	1250	Fair	Gas	"	1.0	4-5	.69
AP-2094	1251	Fair	Gas	"	0.7	4	.81
AP-2097	1252	Very Good	Gas	"	1.8	4-5	.82
AP-2099	1253	Fair	Gas	"	0.9	4-5	.72
AP-2102	1254	Good	Gas	Early to Early Peak Gas	1.1	4-5	.72
AP-2106	1255	Very Good	Gas	Early Peak Gas	2.9	5	.55
AP-2108	1256	Very Good	Gas	Early Peak Gas	1.6	5	.74
AP-2112	1257	Very Good	Gas	Early Peak Gas	2.7	5-6?	.73

BELKOFSKI FORMATION

Sample No. Field	Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Foggy-Soggy Peak Section							
AP-3006	1134	Poor	Gas	Advanced	0.4	7	.34
Bold Cape Section							
AP-4006	1136	Non-Source	-	-	0.1	Not analyzed	
AP-4004	1135	Very Good	Gas	Advanced	2.0	7	.28
Balanced Rock Section							
AP-5013	1138	Non-Source	-	-	0.1	Not analyzed	
AP-5006	1137	Non-Source	-	-	0.1	Not analyzed	

Stepovak Formation (Eocene/Oligocene)

Sample No. Field	Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Coal Bay Section							
AP-5035	1153	Non-Source	-	-	0.3	Not Analyzed	
AP-5040	1154	Poor	Gas	Pre-Generation	0.4	3	.74
AP-5043	1155	Non-Source	-	-	0.4	3-4	.87
AP-5048	1156	Poor	Gas	Pre-Generation	0.5	3-4	.81
AP-5056	1157	Poor	Gas	Early Peak Gas	0.5	4	.89
AP-5061	1158	Fair	Gas	Early Peak Gas	0.7	3-4	.83
AP-5067	1159	Very Good	Gas	Early Peak Gas	4.1	5	.67
AP-5069	1160	Very Good	Gas	Peak Gas	4.1	6*	.56
AP-5073	1161	Fair	Gas	Peak Gas	0.8	6*	.63
AP-5079	1162	Non-Source	-	-	0.4	4	.78
AP-5082	1163	Very Good	Gas	Early Peak Gas	4.3	4-5	.79
AP-5085	1164	Fair	Gas	Early Gen. Gas	0.8	4	.92
AP-5090	1165	Non-Source	-	-	0.4	4	.79
AP-5094	1166	Poor	Gas	Early Gen. Gas	0.5	5	.89
AP-5098	1167	Very Good	Gas	Early Gen. Gas	4.2	4-5	.80
AP-5100	1168	Non-Source	-	-	0.1	Not Analyzed	
AP-5103	1169	Poor	Wet Gas	Pre-Generation	0.5	4	.85
AP-5106	1170	Poor	Gas	Early Gen. Gas	0.5	4-5	.76
McGinty Point Section							
AP-3096	1187	Fair	Gas	Pre-Gen. Gas	0.7	3-4	.62
AP-3090	1186	Good	Gas	Pre-Gen. Gas	1.4	3-4	.61
AP-3083	1185	Non-Source	-	-	0.3	Not Analyzed	
AP-3080	1184	Non-Source	-	-	0.1	Not Analyzed	
AP-3076	1183	Non-Source	-	-	0.3	Not Analyzed	
AP-3073	1182	Non-Source	-	-	0.4	3-4	.55
AP-3070	1181	Poor	Gas	Pre-Gen. Gas	0.4	3-4	.62
AP-3060	1178	Non-Source	-	-	0.2	Not Analyzed	
AP-3055	1177	Non-Source	-	-	0.1	Not Analyzed	
AP-3052	1176	Non-Source	-	-	0.1	Not Analyzed	
AP-3049	1175	Non-Source	-	-	0.4	3-4	.80
American Bay Section							
AP-5186	1209	Fair	Gas	Early Peak Gas	0.7	5	.84
AP-5196	1210	Fair	Gas	Peak Gas	0.9	6	.54
AP-5799	1211	Fair	Gas	Advanced?	0.7	6	.40
AP-6011	1212	Fair	Gas	Advanced?	0.7	6	.28
AP-6014	1213	Fair	Gas	Advanced?	0.8	6	.26
Milky River Section							
AP-2123	1372	Poor	Gas	Peak Gas	0.5	5-6	.51

*Adjacent to diorite intrusion

BEAVER BAY GROUP (Eocene/Oligocene)

Sample No. Field	Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Pavlov Bay Section							
AP-4068	1174	Non-Source	-	-	0.1	Not Analyzed	
AP-4066	1173	Non-Source	-	-	0.3	Not Analyzed	
AP-4061	1172	Poor	Gas	Early Peak Gas	0.5	5	.71
AP-4045	1171	Non-Source	-	-	0.3	Not Analyzed	
Misty Ridge Section							
AP-4072	1188	Fair	Gas	Peak Gas	1.0	6	.16
AP-4077	1189	Fair	Gas	Peak Gas	0.7	6	.39
AP-4085	1190	Poor	Gas	Peak Gas	0.5	6	.57
AP-4088	1191	Fair	Gas	Peak Gas	0.6	N.A.	.34
AP-4100	1192	Fair	Gas	Peak Gas	0.6	6	.49
AP-4107	1193	Non-Source	-	-	0.4	6-7	.20
AP-4116	1194	Fair	Gas	Peak Gas	0.8	6	.35
AP-4128	1195	Fair	Gas	Peak Gas	0.8	6	.43
AP-4133	1196	Poor	Gas	Peak Gas	0.5	5-6	.47
AP-5122	1197	Non-Source	Gas	Peak Gas	.2	Not Analyzed	
AP-5126	1198	Fair	Gas	Peak Gas	0.6	5-6	.47
AP-5134	1199	Very Good	Gas	Peak Gas	2.6	6	.43
AP-5138	1200	Very Good	Gas	Peak Gas	5.8	6-7	.37
AP-5144	1201	Fair	Gas	Peak Gas	0.9	6	.51
AP-5147	1202	Non-Source	-	-	0.4	6	.49
AP-5151	1203	Fair	Gas	Peak Gas	0.8	6	.44
AP-5159	1204	Good	Gas	Peak Gas	1.0	6	.47
AP-5162	1205	Very Good	Gas	Peak Gas	10.6	6	.51
AP-5170	1206	Very Good	Gas	Peak Gas	2.2	6-7	.33
AP-5174	1207	Fair	Gas	Peak Gas	0.8	6	.43
AP-4177	1208	Fair	Gas	Peak Gas	0.9	6	.46

TOLSTOI FORMATION (Eocene)

Field	Sample No. Lab	Rating	Type	Stage	% Org. Carbon	Carbnz Scale	H/C
Invanof Bay							
AP-2146	1374	Poor	gas	Peak Gas	0.6	6	.66
AP-2142	1373	Good	Gas (Oil?)	Peak Gas; Past Peak Oil	1.2	5-6	.71
AP-2139	(Missing)						
AP-2132	1371	Poor	Oil	Past Peak Oil; Peak Gas	0.4	6	.29
AP-2037	1382	Non-Source	-	-	0.3	5-6	.57
AP-2035	1381	Poor	Oil	Past Peak Oil; Peak Gas	0.5	5-6	.46
AP-2033	1380	Very Good	Gas	Peak Gas	3.8	6	.47
AP-2031	1379	Non-Source	-	-	0.3	5-6	.50
AP-2024	1378	Non-Source	-	-	0.2	5-6	.49
AP-2022	1377	Non-Source	-	-	0.2	5-6	.56