

**DEPARTMENT OF THE INTERIOR**

**U.S. GEOLOGICAL SURVEY**

**Brief descriptions of Mines, Prospects, and Mineral  
occurrences in the Port Moller and Stepovak Bay  
quadrangles, Alaska Peninsula**

by

**Frederic H. Wilson<sup>1</sup>, Willis H. White<sup>1</sup>, and Gregory D. DuBois<sup>1</sup>**

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**<sup>1</sup>U.S. Geological Survey, Anchorage, AK 99508-4667**

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**Brief descriptions of Mines, Prospects, and Mineral occurrences in the Port Moller and Stepovak Bay quadrangles, Alaska Peninsula**

by

**Frederic H. Wilson, Willis H. White, and Gregory D. DuBois**

This report contains brief descriptions of known mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangles on the Alaska Peninsula. These quadrangles, and the adjoining Simeonof Island quadrangle to the south were the subject of an Alaska Mineral Resource Assessment Program (AMRAP) mapping and mineral resource assessment project. This compilation of descriptions was made from the published literature (Wilson and others, 1986) and unpublished reports and data of The Aleut Corporation, the U.S. Bureau of Mines, and the U.S. Geological Survey. The initial compilation was primarily based on data from Cobb (1972) and MacKevett and Holloway (1977), however information provided by The Aleut Corporation and data gathered during the Port Moller AMRAP project added most of the information in the descriptions and the database. Compilation of this database is an ongoing process and this is a progress report of work completed to date. The authors would appreciate any corrections or additional information that users may be able to contribute. To facilitate active use of the descriptions, where information is not available for a particular field in the database, it is left blank so that the user can write in data as they obtain it.

Plate 1 is a map showing the location of mines, prospects, or mineral occurrences (MPO). Table 1, starting on page 3, is a list of descriptions for each of the MPO's. Individual MPO descriptions are divided into a number of fields. This database is maintained on a microcomputer and this report is produced from that database. The fields in the database are as follows:

- Site:** The name of the MPO from the literature. If more than one name has been used, the most common is used as the primary name with others shown in parentheses. As so many of the MPOs in MacKevett and Holloway were unnamed, the name of nearby points of reference are used where possible. Mineral occurrences with PMRGX-## (Port Moller Rock Geochemistry) or SBRGX-## (Stepovak Bay Rock Geochemistry) as names, were located through geochemical analysis of rock samples collected as part of the Port Moller AMRAP project.
- ARDF no.:** A unique identifier assigned to each MPO for reference purposes in the database and used as the identifier on the accompanying map (Plate 1).
- Type:** Indicates whether an MPO is a mine, prospect, or mineral occurrence. In general, mines have past production, prospects have had some development work, and mineral occurrences may only represent a rock or soil color anomaly and a few samples. Mineral occurrences located through Port Moller AMRAP studies represent multiple sample or element anomalies.
- Latitude and Longitude:** Approximate location of the MPO in decimal degrees. Some MPO's cover large areas and the given location is only a point within the area.

Quad-250: An abbreviation for the 1:250,000 scale sheet (PM = Port Moller and SB = Stepovak Bay).

Quad-63360: The identifier for the 1:63,360 scale map sheet.

Commodities, main and other: Lists of elements or commodities of interest from the MPO, main usually including the dominant or highest value commodities. This list only includes commodities actually found at the MPO and not those expected from the deposit model.

Status: Inactive or active; active indicating work since 1986.

Production?: Yes or no, depending history.

Location description and accuracy: A narrative description of the location, including an indication of the accuracy of the location if necessary.

Ore and gangue minerals: Lists of the minerals at the MPO that are part of the mineral system.

Deposit model: A name and number based on the models presented in Cox and Singer (1986) or other indicated references. The model or models picked are those that appear most appropriate to the authors on the basis of the geologic or deposit description and setting.

Geologic description: A description of the local geology of the deposit.

Description of work: A description of the mining or evaluation work to date or a list of samples collected that define the mineral occurrence.

Host rock and host rock age: Very brief description of the host rock of the MPO and the age if known.

Associated igneous rock and age: Description and age, if known, of igneous rock to which mineralization can be directly attributed.

General comments: Miscellaneous comments as may be appropriate, including recorded production and history.

References: List of all known references that discuss the MPO.

Primary reference: Best reference on the MPO. This is the best reference describing the MPO, though it may be far from complete.

Table 2 is a list of ARDF numbers, site names, and site types sorted by ARDF number to aid in location of specific sites, table 3 is a similar list sorted by site name.

Site: Port Moller                      ARDF no. PM001  
Type: Occurrence  
Latitude: 55.78300 Quad-250 PM  
Longitude: 160.26700 Quad-63360 D1  
Main commodity: Au, Cu, Pb              Status: Inactive  
Other commodities:                      Production? No

**Location description and accuracy:**

Located from MacKevett and Holloway (1977), not very precise, however PM-AMRAP fieldwork confirmed location.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Epithermal gold vein (25b, 25c, 25d)

**Geologic description:**

"...basaltic lava ... altered to ... brilliant yellow color (Atwood, 1911)." Early reports mention nearby granitic pluton, however pluton was not located in PM-AMRAP mapping. PM-AMRAP mapping indicates series of altered andesite flows and lahars, preferentially altered at bottoms of units. Atwood (1911) also mentioned disseminated pyrite.

**Description of work:**

Staked in early 1900's but no development work as of 1908 according to Atwood (1911). PM-AMRAP samples were 85AAi 88-90. A few anomalous Au samples were reported in area by Trujillo and others, 1982.

**Host rock: Calc-alkaline volcanic rocks**

Age: Tertiary

**Associated igneous rock: Calc-alkaline volcanic rocks**

Age: Tertiary

**General comments:**

Rock samples for PM-AMRAP had anomalous Cu and Pb.

**References:**

Atwood, 1911 p. 128; Berg and Cobb, 1967 p. 5-6; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; Trujillo and others, 1982; Wilson and others, 1987

**Primary reference: Atwood, 1911 p. 128**

Site: Balboa Bay ARDF no. PM002  
Type: Occurrence  
Latitude: 55.59200 Quad-250 PM  
Longitude: 160.58300 Quad-63360 C2  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

**Location description and accuracy:**

Brief description in Atwood (1911) as east shore Balboa Bay

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Insufficient data

**Geologic description:**

Copper minerals in shear zone in Tertiary andesitic lava.

**Description of work:**

Short tunnel, abandoned by 1911

**Host rock: Andesite**

Age: late Miocene

**Associated igneous rock: Andesite**

Age: late Miocene

**General comments:**

No confirming information available as a result of PM-AMRAP studies.

**References:**

Atwood, 1909 p. 152; 1911 p. 21, p. 129; Brooks, 1921 p. 35; Wedow and others, 1952 p. 112; Berg and Cobb, 1967 p. 6-7; Cobb, 1972; MacKevett and Holloway, 1977 p. 28

Primary reference: Atwood, 1911 p. 129

Site: Herman Lode (Trench) ARDF no. PM003  
Type: Prospect  
Latitude: 55.30800 Quad-250 PM  
Longitude: 160.50000 Quad-63360 B2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Pb, Sb, Zn, Cu Production? No

Location description and accuracy:  
Hills east of Sand Point airport, near VABM "Red"

Ore minerals: Gold, Galena, Chalcopyrite, Sphalerite

Gangue minerals: Pyrite, Quartz

Deposit model:  
Epithermal Au vein (25b, 25c)

Geologic description:  
Zone of north-striking quartz veins cut volcanic tuffs and overlying massive andesite flows in sea cliffs. At the cliff base in the tuff, the vein zone is 10.5 feet wide and contains five sulfide-bearing veins with a combined width of 2.0 feet. At a vertical distance of 175 feet up the cliff face in the andesite, the vein zone is 50 feet wide, and contains 12 veins, but all are narrow and poorly mineralized. Free gold in surface weathered zone and local assays of 1 oz/t Au reported in 1911.

Description of work:  
One 120 foot adit and four shallow shafts reported in 1911. Only one 160 foot east-trending adit found in 1946.

Host rock: andesite, tuff  
Age: Eocene  
Associated igneous rock: andesite, tuff  
Age: Eocene

General comments:  
Several hundred feet of andesite flows overlying tuff.

References:  
Martin, 1905 p. 101; Atwood, 1909 p. 149; 1911 p. 20, p. 125; Brooks, 1909 p. 52; 1912 p. 37; 1913 p. 43; 1915 p. 47; 1925 p. 23; Smith, 1932 p. 23; Webber and others, 1946 p.95-99; Wedow and others, 1952 p. 112; Berg and Cobb, 1967 p. 5; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; Peterson and others, 1982; Angeloni and others, 1985

Primary reference: Webber and others, 1946

Site: Shumagin (Choumagin) ARDF no. PM004  
Type: Mine  
Latitude: 55.22400 Quad-250 PM  
Longitude: 160.58000 Quad-63360 A2  
Main commodity: Au, Ag Status: Active  
Other commodities: As, Ba, Pb, Sb Production? No

Location description and accuracy:  
Head of Baralof Bay

Ore minerals: Gold, Galena, Sphalerite, Arsenopyrite, Pyrite

Gangue minerals: Quartz, Calcite, Rhodonite

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Most gold in locally 10 foot wide zone of open-growth, colloform-textured quartz veins within and adjacent to a quartz-sealed fault. The fault strikes N60E and dips 80-85 degrees SE and separates crystal lithic tuff from andesite. Strike length of quartz-sealed fault is 4800'. Within veins, microscopic gold occurs near sparse 1mm long crystals of galena and sphalerite. Argillic and propylitic alteration predominate.

Description of work:

Two circa-1908 adits, numerous 1983-1987 trenches and 9,269' of drilling in 23 holes. Upper adit 79' long, with 116' crosscut, accessible by 1908, lower adit 260' long, 340' drift along vein, accessible in 1988. PM-AMRAP samples 83AGe 1a-c collected in 1983.

Host rock: Andesite

Age: Eocene

Associated igneous rock: Andesite and rhyolite

Age: Eocene

General comments:

Active evaluation work 1983-1987 with plans for production. Published reserves of 270,000 tons grading 16.8 g/t Au and 68 g/t Ag.

References:

Martin, 1905 p. 101; Atwood, 1909 p. 149, 151; 1911 p. 21, 125, 127; Webber and others, 1946; Wedow and others, 1952 p. 111; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; Angeloni and others, 1985; Mining Journal, 1987, p. 328; W.H. White and L.D. Queen, unpublished data, 1988

Primary reference: Atwood, 1911 p. 125, 127

Site: Sitka ARDF no. PM005  
Type: Mine  
Latitude: 55.19300 Quad-250 PM  
Longitude: 160.55700 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Pb, Zn, Cu Production? Yes

**Location description and accuracy:**

One mile north of Delarof Bay, 1/2 mile northeast of Apollo Mine.

**Ore minerals:** Gold, Galena, Sphalerite, Chalcopyrite, Pyrite

**Gangue minerals:** Quartz, Amethyst, Calcite

**Deposit model:**

Epithermal gold vein (25b, 25d)

**Geologic description:**

Five foot wide zone of sulfide-bearing open-growth quartz veins paralleling a shear zone that strikes E-W and dips 65-80 degrees south. Shear zone crosscuts the main NE-trending structure in the area. Ore minerals concentrated at bases of inward-penetrating quartz crystals in individual veins.

**Description of work:**

One three-compartment shaft to estimated 400' depth. Stopes 150' long, 15' wide at 55' level. A number of crosscut. West adit 360' long with 30' crosscut. Shaft accessible in 1983. Six 1983 trenches and 1571' of drill core from three holes.

**Host rock:** Andesite

Age: Eocene

**Associated igneous rock:** Andesite

Age: Eocene

**General comments:**

Operated in conjunction with Apollo Mine until about 1915, development work in 1920's and 1980's. Only one of the Unga Island mines to have significant Pb and Zn. Estimated production 15,000 tons, grade unknown.

**References:**

Martin, 1905 p. 101; Atwood, 1909 p. 149-150; 1911 p. 21, 125-127; Smith, 1941 p. 28; Webber and others, 1946; Wedow and others, 1952 p. 111; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; W.H. White and F.H. Wilson, unpublished data, 1988

**Primary reference:** Webber and others, 1946 p. 20-24

Site: Apollo ARDF no. PM006  
Type: Mine  
Latitude: 55.19100 Quad-250 PM  
Longitude: 160.56200 Quad-63360 A2  
Main commodity: Au Status: Inactive  
Other commodities: Ag, Cu, Pb, Zn Production? Yes

**Location description and accuracy:**

Head of Delarof Bay, west of Sitka Mine. Location of Apollo Stope at 55.186°N, 160.573°W.

**Ore minerals:** Gold, Galena, Sphalerite, Native Copper,  
Chalcopyrite, Pyrite

**Gangue minerals:** Quartz, Calcite, Orthoclase

**Deposit model:**

Epithermal gold vein (25b, 25d)

**Geologic description:**

Three parallel calcite-bearing open-growth quartz veins that average less than 60' apart, strike N20E, and dip steeply south. Ore came mostly from two shoots, the largest of which was 800' long and 8-16' wide by 500' down dip.

**Description of work:**

Workings consist of two tunnels, 1200' and 3200' long; two shafts 450' and 811' deep; and numerous subsidiary crosscuts. Mine was reopened in 1983 and was partly accessible in 1988. Extensive 1983 trenching and 9,483' of drill core from 9 holes.

**Host rock:** Andesite

Age: Oligocene

**Associated igneous rock:** Andesite

Age: Oligocene

**General comments:**

From 1891 to 1904 and during summer of 1908, the mine produced 500,000 tons of ore that yielded \$3,000,000 in metals. Assuming that 90 percent of this value was gold and that the average price was \$20.67/oz., then about 130,000 oz. were recovered from ore grading about 8.9 g/t Au. See also Rising Sun (PM040), Olgen (PM041).

**References:**

Becker, 1898 p. 62-63, p. 83-85; Martin, 1905 p. 100-101; Brooks, 1906 p. 6; 1908 p. 28-29; 1909 p. 196, p. 199; 1910 p. 34; 1911 p. 33, p. 66; 1912 p. 28; 1913 p. 38; 1915 p. 47; 1918 p. 49-50; Atwood, 1909 p. 149-150; 1911 p. 21, p. 125-126; Brooks and Capps, 1924 p. 33; Smith, 1933 p. 24; Smith, 1941 p. 28; Webber and others, 1946; Bain, 1946 p. 22; Brown, 1947; Wedow and others, 1952 p. 111; Berg and Cobb, 1967 p. 5; Koschmann and Bergendahl, 1968 p. 23; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; MacKevett and others, 1978 p. 43; W.H. White and F.H. Wilson, unpublished data, 1988

**Primary reference:** Brown, 1947

Site: Nelson Lagoon ARDF no. PM007  
Type: Occurrence  
Latitude: 55.96700 Quad-250 PM  
Longitude: 161.38300 Quad-63360 D5  
Main commodity: Fe, Ti Status: Inactive  
Other commodities: Production? No

**Location description and accuracy:**

Beach southwest of village of Nelson Lagoon. Sampling included 22 samples over a number of miles of beach.

**Ore minerals:** Magnetite, Hematite, Ilmenite

**Gangue minerals:**

**Deposit model:**

Shoreline placer Ti (39c)

**Geologic description:**

Beach sands from long spit covered by sand dunes to 40' above water table. High analysis was 309.7 lbs/cu.yd Fe and 78.6 lbs/cu.yd TiO<sub>2</sub>, average was 44.0 lbs/cu.yd Fe and 11.44 lbs/cu.yd TiO<sub>2</sub>.

**Description of work:**

**Host rock:** Beach sands

**Age:** Holocene

**Associated igneous rock:**

**Age:**

**General comments:**

**References:**

Berryhill, 1963 p. 42-45; Cobb, 1972; 1973 p. 6; MacKevett and Holloway, 1977 p. 28

**Primary reference:** Berryhill, 1963 p. 42-45

Site: Moller Spit                      ARDF no. PM008  
Type: Occurrence  
Latitude: 55.93100 Quad-250 PM  
Longitude: 160.55800 Quad-63360 D2  
Main commodity: Fe, Ti                      Status: Inactive  
Other commodities: Au                      Production? No

**Location description and accuracy:**

Beaches in vicinity of cannery at Port Moller. Sampling included 7 samples over a number of miles of beach.

**Ore minerals:** Magnetite, Hematite, Ilmenite

**Gangue minerals:**

**Deposit model:**

Shoreline placer Ti (39c)

**Geologic description:**

Beach sands from spit, partly moraine. High analysis was 169.5 lbs/cu.yd Fe and 47.5 lbs/cu.yd TiO<sub>2</sub>, average was <20 lbs/cu.yd Fe and <5 lbs/cu.yd TiO<sub>2</sub>. Trace gold.

**Description of work:**

**Host rock:** Beach sands

**Age:** Holocene

**Associated igneous rock:**

**Age:**

**General comments:**

**References:**

Berryhill, 1963 p. 39-42; Cobb, 1972; 1973 p. 6; MacKevett and Holloway, 1977 p. 28

**Primary reference:** Berryhill, 1963 p. 39-42

Site: Mary Lou (Sand Point) ARDF no. PM009  
Type: Mine  
Latitude: 55.31100 Quad-250 PM  
Longitude: 160.51700 Quad-63360 B2  
Main commodity: Au Status: Inactive  
Other commodities: Production? Yes

Location description and accuracy:

Beaches in vicinity of present day Sand Point airport on Popof Island, primarily at south end of airport.

Ore minerals: Gold

Gangue minerals:

Deposit model:

Placer Au-PGE (39a)

Geologic description:

Beach sands from spit, eroding from mineralized andesites in cliffs above. All gold found below mid-tide and most around large boulders at low-tide.

Description of work:

Workings along 3/4 mile of beach, 20 to 40 men in 1904, 1905 with rockers. Sporadic work since, claim post found in 1982 "Mary Lou" claim.

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

References:

Martin, 1905 p. 101; Atwood, 1909 p. 149; 1911, p. 20, 125; Brooks, 1909 p. 52; 1912 p. 37, p. 43; 1915 p. 47; 1925 p. 23; Smith, 1932 p. 23; Cobb, 1972; MacKevett and Holloway, 1977 p. 28; F.H. Wilson, unpublished data, 1982

Primary reference: Atwood, 1911 p. 125

Site: Pyramid ARDF no. PM010  
Type: Prospect  
Latitude: 55.62500 Quad-250 PM  
Longitude: 160.66700 Quad-63360 C3  
Main commodity: Cu,Mo Status: Inactive  
Other commodities: Ag,Au,Pb,Sb,Zn Production? No

Location description and accuracy:  
Vicinity of Pyramid mountain northwest of Balboa Bay

Ore minerals:

Gangue minerals:

Deposit model:

Porphyry Cu (17), Porphyry Cu-Mo (21a), possibly Porphyry Cu-Au (20c)

Geologic description:

Extensive altered zone and porphyry-type mineralization in a late Miocene intrusive into late Cretaceous and Eocene sedimentary rocks. Zoned outward from barren potassic core through strong pervasive quartz-sericite to propylitic margin. Size 3.7 x 3.0 km. Highest grades at inner limit of quartz-sericite zone. Some supergene enrichment.

Description of work:

In 1975, about 5560' of core drilling in 19 holes. PM-AMRAP samples were 83AAi 36, 39-40, 83APk 42-46

Host rock: Sandstone, siltstone

Age: Cretaceous and Eocene

Associated igneous rock: Qtz diorite

Age: Miocene

General comments:

Reserves of 126 million tons averaging 0.413 percent Cu, 0.025 percent Mo.

References:

Wolfhard, 1974, 1976; Armstrong and others, 1976; Christie, 1974, 1975a, 1975b; Christie and Wolfhard, 1977; MacKevett and Holloway, 1977 p. 28; Hollister, 1978; Butherus and others 1979; Freeport, 1985; Angeloni and others, 1985

Primary reference: Christie, 1975b

Site: Brown Zinc (Suzy) ARDF no. PM011  
Type: Prospect  
Latitude: 55.29200 Quad-250 PM  
Longitude: 160.48300 Quad-63360 B2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Cd, Pb, Sb, Zn Production? No

**Location description and accuracy:**

Cliffs about 100' above sea level west of Red Cove. Adit mouth found in 1982, covered by debris in later years.

**Ore minerals:** Galena, Sphalerite, Chalcopyrite, Pyrite

**Gangue minerals:** Quartz, Calcite

**Deposit model:**

Epithermal Au vein (25b, 25c, 25d)

**Geologic description:**

Samples on dump appeared to be from vein in fracture filling within propylitically altered Eocene andesite. System of reticulated quartz veins. Principal veins averages 7' in width, system to 15', may have strike length to 700'. Strike is N7E.

**Description of work:**

Adit, length estimated to be about 135' with 2 short crosscuts midway. PM-AMRAP sample 82AWs 50.

**Host rock:** Andesite

Age: Eocene

**Associated igneous rock:** Andesite

Age: Eocene

**General comments:**

Named the Suzy Adit by UNC Teton Exploration Co. geologists in 1982, the actual adit is quite old, possibly early 1900's. This is shown as a different locality than PM003 by MacKevett and Holloway (1977), yet still may be one of those discussed by Atwood (1911).

**References:**

Atwood, 1911 p. 125; Webber and others, 1946; U.S. Bureau of Mines, 1973; MacKevett and Holloway, 1977, p. 28; Peterson and others, 1982; Angeloni and others, 1985; F.H. Wilson, unpublished data, 1988

**Primary reference:** Webber and others, 1946

Site: North Popof Strait                      ARDF no. PM012  
Type: Occurrence  
Latitude: 55.35000 Quad-250 PM  
Longitude: 160.48300 Quad-63360 B2  
Main commodity: Au                              Status: Inactive  
Other commodities:                              Production? No

Location description and accuracy:  
Beaches on Popof Island northwest of city of Sand Point

Ore minerals: Gold

Gangue minerals:  
Deposit model:  
Placer Au-PGE (39a)

Geologic description:

Description of work:

Host rock: Andesite  
Age: Eocene  
Associated igneous rock: Andesite  
Age: Eocene

General comments:  
Placer gold claims, little available information.

References:  
U.S. Bureau of Mines, 1973

Primary reference: U.S. Bureau of Mines, 1973

Site: Apollo Mountain                      ARDF no. PM013  
Type: Occurrence  
Latitude: 55.18300 Quad-250 PM  
Longitude: 160.61700 Quad-63360 A2  
Main commodity: Au, Cu                      Status: Inactive  
Other commodities:                      Production? No

**Location description and accuracy:**

Location approximate only. May be confused by some workers with Heather Creek (PM050) or possibly called Delarof(?).

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Epithermal Au vein (25b, 25c, 25d), Polymetallic vein (22c)

**Geologic description:**

May be splay off main Apollo trend. Thin quartz veins (<1') discontinuous along 2500' strike length. Also brecciated and silicified knob of andesite 100'x1000' containing numerous quartz filled vugs and limonitic shears.

**Description of work:**

Possibly some evaluation work done by UNC Teton Exploration Co. for Aleut Corp. in 1979, 1981, and 1982, 19 rock samples.

**Host rock: Andesite?**

Age: Eocene

**Associated igneous rock: Andesite**

Age: Eocene

**General comments:**

Grab samples to 0.23 ppm Au, 10 ppm Ag. Low base metals. See also Sitka (PM005), Apollo (PM006), California (PM089).

**References:**

U.S. Bureau of Mines, 1973; Peterson and others, 1982

**Primary reference:** U.S. Bureau of Mines, 1973

Site: Delarof Harbor                      ARDF no. PM014  
Type: Occurrence  
Latitude: 55.19200 Quad-250 PM  
Longitude: 160.55000 Quad-63360 A2  
Main commodity: Au                      Status: Inactive  
Other commodities:                      Production? No

Location description and accuracy:  
Head of Delarof Harbor, west of village of Unga on Unga Island

Ore minerals: Gold

Gangue minerals:  
Deposit model:  
Placer Au-PGE (39a)

Geologic description:  
Beach sands at mouth of Creek draining Apollo Mine (PM006)

Description of work:  
Some beach mining reported in 1911 by Brooks (1912)

Host rock: Beach sands, possibly tailings  
Age: Holocene  
Associated igneous rock:  
Age:

General comments:

References:  
Brooks, 1912 p. 37; U.S. Bureau of Mines, 1973

Primary reference: Brooks, 1912 p. 37

Site: Hardscratch ARDF no. PM015  
Type: Occurrence  
Latitude: 55.25800 Quad-250 PM  
Longitude: 160.58300 Quad-63360 B2  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Approximate location near Hardscratch Point, Unga Island from MacKevett and Holloway, 1977

Ore minerals:

Gangue minerals:

Deposit model:

Porphyry Cu? (17)

Geologic description:

Altered zones in Tertiary volcanic and intrusive rocks

Description of work:

Host rock:

Age: Miocene or Oligocene

Associated igneous rock:

Age: Miocene or Oligocene

General comments:

References:

U.S.G.S. unpublished data, 1976, cited in MacKevett and Holloway, 1977

Primary reference: MacKevett and Holloway, 1977

Site: Hog ARDF no. PM016  
Type: Prospect  
Latitude: 55.30600 Quad-250 PM  
Longitude: 160.72900 Quad-63360 B3  
Main commodity: Ag, Au Status: Inactive  
Other commodities: As, Pb, Sb Production? No

Location description and accuracy:

This is believed to correspond to occurrence 16 in MacKevett and Holloway, 1977, with significant detail from Peterson and others, 1983.

Ore minerals: Pyrite, Chalcopyrite, Galena

Gangue minerals: Quartz, Chlorite, Chalcedony, Calcite, Zeolite

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Gold and silver in silicified, pyritized polymictic volcanic breccia at intersections of northeast-trending fractures with major northwest-trending fault. In addition, anomalous gold and silver occur over a strike length of 2300' in a northwest-trending zone. Highest concentrations in Discovery outcrop are 4.75 ppm Au and 286 ppm Ag. One 6-foot interval in drill hole HOG 2-83 averaged 2.38 ppm Au and 16.5 ppm Ag.

Description of work:

Six drill holes totalling 1350' in 1983; 12350 line feet VLF-EM surveying; 475' of trenching; and more than 400 geochemical samples. PM-AMRAP sample 83AWs 144, UNC Teton samples 56228, 56287 listed in Angeloni and others, 1985

Host rock:

Age: Miocene

Associated igneous rock: Hornblende dacite

Age: Miocene

General comments:

References:

U.S.G.S. unpublished data, 1976, cited in MacKevett and Holloway, 1977; Peterson and others, 1982, 1983, Angeloni and others, 1985

Primary reference: Peterson and others, 1983

Site: unnamed ARDF no. PM017

Type: Occurrence

Latitude: 55.36700 Quad-250 PM

Longitude: 160.56700 Quad-63360 B2

Main commodity: Cu Status: Inactive

Other commodities: Production? No

**Location description and accuracy:**

Approximate location from MacKevett and Holloway, 1977, between West and North Heads on Unga Island.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Altered zones in Tertiary volcanic terrane

**Description of work:**

**Host rock:**

Age: Miocene

**Associated igneous rock:** Andesite

Age: Miocene

**General comments:**

**References:**

USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977.

**Primary reference:** MacKevett and Holloway, 1977

Site: Andronica ARDF no. PM018  
Type: Occurrence  
Latitude: 55.33300 Quad-250 PM  
Longitude: 160.08300 Quad-63360 B1  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Approximate location on Andronica Island from MacKevett and Holloway, 1977

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Altered zones in Tertiary volcanic terrane

Description of work:

Host rock: Andesite or basalt

Age: Eocene

Associated igneous rock: Andesite or basalt

Age: Eocene

General comments:

References:

U.S.G.S. unpublished data, 1976, cited in MacKevett and Holloway, 1977.

Primary reference: MacKevett and Holloway, 1977

Site: Lumber Bay ARDF no. PM019  
Type: Occurrence  
Latitude: 55.52500 Quad-250 PM  
Longitude: 160.48300 Quad-63360 C2  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

**Location description and accuracy:**

Approximate location near Lumber Bay from MacKevett and Holloway, 1977.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Altered zones in Tertiary rocks.

**Description of work:**

**Host rock:**

Age: Miocene?

**Associated igneous rock:**

Age: Miocene?

**General comments:**

This may be the same as RAA/Nerco's San Diego Bay (PM021) prospect.

**References:**

USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977.

**Primary reference:** MacKevett and Holloway, 1977

Site: Renshaw Point ARDF no. PM020  
Type: Occurrence  
Latitude: 55.61000 Quad-250 PM  
Longitude: 160.36800 Quad-63360 C2  
Main commodity: Ag, Au, Cu Status: Inactive  
Other commodities: Pb, Sb, Zn Production? No

Location description and accuracy:  
Renshaw Point at mouth of Dorenoi Bay.

Ore minerals: Galena, Sphalerite

Gangue minerals: Calcite, Quartz, Barite, Pyrite, Arsenopyrite  
Deposit model:  
Epithermal Au vein (25b, 25d), polymetallic vein (22c)

Geologic description:  
Highly altered and brecciated intrusive and (or) flow. Near vertical and overturned sedimentary rocks of Stepovak Fm. Many calcite veins occur throughout the area. The Miocene structural unconformity reported in Wilson and others, 1985 passes through this area.

Description of work:  
PM-AMRAP samples 83ADt 95, 96

Host rock: Dacite, andesite, sandstone  
Age: Oligocene  
Associated igneous rock: Dacite(?)  
Age: Tertiary

General comments:  
MacKevett and Holloway report this as a porphyry system and indicate copper. PM-AMRAP mapping and data suggest the epithermal or polymetallic vein type deposit model are more appropriate.

References:  
USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977; Butherus and others, 1979; Andersen and others, 1980; Freeport, 1985; Angeloni and others, 1985; Wilson and others, 1985

Primary reference: Butherus and others, 1979

Site: San Diego ARDF no. PM021  
Type: Prospect  
Latitude: 55.59100 Quad-250 PM  
Longitude: 160.48300 Quad-63360 C2  
Main commodity: Ag, Au, Cu, Pb Status: Inactive  
Other commodities: As, Cd, Sb, Zn Production? No

**Location description and accuracy:**

Approximate location from MacKevett and Holloway, 1977; actually, prospect covers very large area between Balboa and San Diego Bays.

**Ore minerals:** Galena, Sphalerite, Tetrahedrite

**Gangue minerals:** Quartz, Zeolite, Pyrite, Sericite, Epidote, Magnetite, Barite, Calcite

**Deposit model:**

Porphyry Cu? (17), Epithermal Au vein (25b, 25c)

**Geologic description:**

Twenty square mile color anomaly in Miocene volcanic rocks. Small stocks and northeast trending dikes of diorite and lesser quartz diorite that are difficult to distinguish texturally from the intruded andesite. Area includes widely scattered zones of intense silicification with strongly developed stockwork veining. Best mineralization in quartz-barite-carbonate veins. Gold values rarely exceed 2 ppm in veins.

**Description of work:**

Extensive RAA/Nerco sampling (about 2000 samples) for the Aleut Corp. and possible drilling. Drilling by Quintana-Duval in 1975 for porphyry evaluation. PM-AMRAP samples 85AYb 736, 737, 737a

**Host rock:** Miocene volcanic rocks

Age: Miocene

**Associated igneous rock:** Miocene volcanic rocks

Age: Miocene

**General comments:**

RAA/Nerco extensively examined this area; though originally reported in MacKevett and Holloway (1977) for copper, RAA/Nerco concentrated on gold. Trujillo and others, 1983 reported massive sericite. See also PM067, PM069.

**References:**

USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977; Christie, 1974; 1976; Butherus and others, 1979; Andersen and others, 1980; Trujillo and others, 1982; 1983; Freeport, 1985

**Primary reference:** Trujillo and others, 1983

Site: Portage Valley                      ARDF no. PM022  
Type: Occurrence  
Latitude: 55.65000 Quad-250 PM  
Longitude: 160.61700 Quad-63360 C2  
Main commodity: Cu                      Status: Inactive  
Other commodities:                      Production? No

Location description and accuracy:

Approximate location in Portage Valley from MacKevett and Holloway, 1977

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Altered zones, probably related to Tertiary granitic rocks

Description of work:

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

References:

USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977.

Primary reference: MacKevett and Holloway, 1977

Site: Marble Point                      ARDF no. PM023  
Type: Occurrence  
Latitude: 55.78600 Quad-250 PM  
Longitude: 160.68900 Quad-63360 D3  
Main commodity: Cu, Zn                      Status: Inactive  
Other commodities:                      Production? No

**Location description and accuracy:**

Approximate location from MacKevett and Holloway, 1977, refined by PM-AMRAP fieldwork. One mile northwest of Mine Harbor.

**Ore minerals:**

Gangue minerals: Calcite  
Deposit model:

**Geologic description:**

MacKevett and Holloway (1977) reorted altered zones, probably related to Tertiary granitic rocks. Recent fieldwork indicates no mapped granitic rocks in vicinity. Anomalous rock sample from olive-green siltstone on west side of fault.

**Description of work:**

PM-AMRAP sample 85AJm 765

**Host rock: Sandstone and siltstone**

Age: early Cretaceous

**Associated igneous rock:**

Age:

**General comments:**

Mapping indicates extensive silicification and calcification of Staniukovich Formation siltstone and sandstone. There may be a nearby warm spring.

**References:**

USGS unpublished data, 1976, cited in MacKevett and Holloway, 1977; Wilson and others, 1987.

Primary reference: Wilson and others, 1987



Site: Mt. Hague                      ARDF no. PM025  
Type: Occurrence  
Latitude: 55.40000 Quad-250 PM  
Longitude: 161.96700 Quad-63360 B6  
Main commodity: Sulphur              Status: Inactive  
Other commodities:                      Production? No.

**Location description and accuracy:**

Southwest(?) side of Mt. Hague. Kennedy and Waldron (1955) describe location as the southwest side of Mt. Hague, however their map shows it as the southeast side of Mt. Hague.

**Ore minerals:** Sulphur

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Six large and many small fumaroles in a gully on southwest side of Mt. Hague had built up cones 3-4 ft. high around each vent and had formed extensive deposits of pure sulphur in the gully. Large blocks had fallen to the glacier below. Fumes prevented a close approach to cones.

**Description of work:**

None

**Host rock:**

Age: Holocene

**Associated igneous rock:**

Age:

**General comments:**

The fumaroles are at elevations between 3,200 and 3,800 feet.

**References:**

Kennedy and Waldron, 1955 p. 15.

**Primary reference:** Kennedy and Waldron, 1955 p. 15

Site: Zachary Bay breccia ARDF no. PM026

Type: Occurrence

Latitude: 55.25400 Quad-250 PM

Longitude: 160.63300 Quad-63360 B2

Main commodity: Pb, Zn Status: Inactive

Other commodities: Cu Production? No

Location description and accuracy:

1.9 miles south of the Zachary Bay prospect (PM048). Location uncertain, this may be confused with Pb-Zn breccia at 55.281 N 160.666 W shown on map, but not described by Peterson and others, 1983..

Ore minerals: Sphalerite, Galena, Chalcopyrite

Gangue minerals:

Deposit model:

Geologic description:

Fifty foot wide exposure of brecciated, silicified, pyritic andesite breccia pipe?  
Analyses show values to 1.09 oz/t Ag, 2.07 percent Zn, 0.58 percent Pb.

Description of work:

Limited rock sampling.

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

References:

Trujillo and others, 1981; Peterson and others, 1983.

Primary reference: Trujillo and others, 1981

Site: Prays (P.V.) ARDF no. PM027  
Type: Prospect  
Latitude: 55.21500 Quad-250 PM  
Longitude: 160.58900 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Pb, Sb Production? No

Location description and accuracy:  
Southwest of Baralof Bay, 2.5 miles northwest of the Apollo Mine.

Ore minerals:

Gangue minerals: Quartz, Barite  
Deposit model:  
Epithermal gold vein (25b,25d)

Geologic description:  
Siliceous knob containing pyritic zones and drusy quartz vugs.  
Analyses show Au to 11.8 ppm, 19 ppm Ag, 1010 ppm Pb, 750 ppm As, 170 ppm Hg  
and 150 Sb.

Description of work:  
Two drill holes, one 1981, one 1983

Host rock: Tuff  
Age: Eocene  
Associated igneous rock:  
Age:

General comments:

References:  
Trujillo and others 1981; Peterson and others, 1983.

Primary reference: Peterson and others, 1983



Site: Orange Mountain ARDF no. PM029

Type: Prospect

Latitude: 55.20900 Quad-250 PM

Longitude: 160.61800 Quad-63360 A2

Main commodity: Au, Ag Status: Inactive

Other commodities: Cu Production? No

Location description and accuracy:

Two miles east of Acheredin Lake at Red Mountain.

Ore minerals: Tetrahedrite

Gangue minerals: Quartz, Pyrite, Limonite, Calcite (rare), Gypsum, Hematite, Marcasite, Barite.

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Color anomaly covers 2.7 square miles along the Shumagin fault zone. Strong argillization and pervasive pyritization of andesite tuffs and silica replacement of felsic tuffs. Intense acid leaching. Hydrothermal shatter breccias; discontinuous quartz veins. Surface, 2.85 ppm Au, 26 ppm Ag; subsurface, 0.410 ppm Au, 3.4 ppm Ag

Description of work:

Three drill holes, totalling 2453' in 1983, 471 core samples and 487 rock samples analyzed. 1.4 line miles VLF-EM survey, 1.41 square miles mapping at scales of 1"=400' and 1"=100'.

Host rock: Andesite, Rhyolite

Age: Eocene

Associated igneous rock:

Age:

General comments:

Largest color anomaly on Unga Island, extensively studied.

References:

Peterson and others, 1982, 1983

Primary reference: Peterson and others 1983

Site: Junior ARDF no. PM030  
Type: Prospect  
Latitude: 55.23800 Quad-250 PM  
Longitude: 160.67000 Quad-63360 A3  
Main commodity: Ag Status: Inactive  
Other commodities: Hg Production? No

Location description and accuracy:  
8800' north of Acheredin Lake, 22500' west of Baralof Bay, elevation 900'.

Ore minerals:

Gangue minerals: Zeolite, Chalcedony, Jasper, Pyrite

Deposit model:

Epithermal gold vein (25b,25d)

Geologic description:

Area 200' wide and 4000' long consisting of pyritic sheared basaltic-andesite flows cut by thin chalcedony, zeolite, and jasper veins. Chalcedony grab sample had 2.2 ppm Au, 1.4 ppm silver. Other samples to 9.5 ppm Ag and 10.9 ppm Hg. Very low base metals. Intersection of NW-NE structures.

Description of work:

522' drilling in 1981, 25 rock samples

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

General comments:

See also Chance PM031, and Midway PM032

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Chance ARDF no. PM031  
Type: Occurrence  
Latitude: 55.20800 Quad-250 PM  
Longitude: 160.72000 Quad-63360 A3  
Main commodity: Ag Status: Inactive  
Other commodities: Hg, Pb, Cu, Zn Production? No

Location description and accuracy:  
5000' west of the west end of Acheredin Lake. Elevation 250'.

Ore minerals:

Gangue minerals: Quartz

Deposit model:

Epithermal gold vein (25b,25d)

Geologic description:

Several quartz veins and area of silicified, iron oxide-rich andesite. At intersection of NW and NE structures. Maximum values from most grab samples are: 0.95 ppm Au, 1.9 ppm Ag, 79 ppm Cu, 995 ppm Pb, 400 ppm Zn.

Description of work:

One trench, 30+ rock samples

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

General comments:

See also Junior PM030, Midway PM032

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Midway ARDF no. PM032  
Type: Occurrence  
Latitude: 55.22600 Quad-250 PM  
Longitude: 160.69200 Quad-63360 A3  
Main commodity: Ag Status: Inactive  
Other commodities: Hg Production? No

Location description and accuracy:  
7500' north of west end of Acheredin Lake. Elevation 700'.

Ore minerals:

Gangue minerals: Zeolite, Chalcedony, Jasper, Pyrite

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Several knobs of zeolite-chalcedony-jasper-pyrite breccia in area 100' by 1000'.  
Anomalous samples with up to 15.0 ppm Ag, 5.0 ppm Hg, up to 710 ppm Zn, and  
trace gold. Localized at intersection of multiple structures.

Description of work:

Rock sampling.

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

General comments:

See also Chance PM031 and Junior PM030

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Empire ARDF no. PM033  
Type: Prospect  
Latitude: 55.18250 Quad-250 PM  
Longitude: 160.58030 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

About 4,000 feet southwest of lower tunnel portal, Apollo Mine (PM006).

Ore minerals:

Gangue minerals: Quartz

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Vuggy quartz veins less than 0.5 inches wide in iron oxide stained silicified andesite.  
On Apollo trend.

Description of work:

South-trending adit, 150' long open in 1983. In 1983, 4737' of drilling in 3 holes,  
VLF and EM geophysical surveys and trenching.

Host rock: Andesite

Age: Oligocene

Associated igneous rock: Andesite

Age: Oligocene

General comments:

References:

Webber and others, 1946 p. 24; Alaska Apollo Gold Mines Ltd., written  
communication, 1983; W.H. White, personal data, 1988.

Primary reference: Webber and others, 1946

Site: Beach vein

ARDF no. PM034

Type:

Latitude: 55.20000 Quad-250 PM

Longitude: 160.70700 Quad-63360 A3

Main commodity: Au, Ag Status: Inactive

Other commodities: Pb, Cu, Zn, Hg Production? No

Location description and accuracy:

North shore Acheredin Bay west of Acheredin Lake, sec 32, T57S, R75W

Ore minerals:

Gangue minerals: Quartz, Clay

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Large multiple-phase quartz vein system, 1500' strike length, 10' wide. Drusy quartz breccias up to 100' wide, 400' long and vertical extent of at least 200'. Also thin single-phase quartz veins up to 6 inches wide. Highest values from trench channel samples were 4.94 ppm Au, 9.94 ppm Ag, 1180 ppm Cu, 6320 ppm Pb, and 3400 ppm Zn.

Description of work:

2.8 line miles VLF-EM survey, 421' trenching, mapping at a scale of 1"=1000'

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

General comments:

Drilling was recommended.

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Disney ARDF no. PM035  
Type: Occurrence  
Latitude: 55.22700 Quad-250 PM  
Longitude: 160.64100 Quad-63360 A2  
Main commodity: Au Status: Inactive  
Other commodities: Ag, Pb, Zn Production? No

**Location description and accuracy:**

1.42 miles northeast of Acheredin Lake, 2.84 miles west of Baralof Bay. SE 1/4,  
sec. 22, T57S, R75W

**Ore minerals:**

Gangue minerals: Jasper, Quartz

**Deposit model:**

Epithermal Au vein (25b,25d)

**Geologic description:**

Area of silicified andesite tuff localized on northeast-trending structure. Tuffs show argillic alteration and chloritization. Jasper veins to 2' wide. All commodities at low concentrations, maximum 0.2 ppm Au, 18 ppm Ag, 189 ppm Pb, 203 ppm Zn

**Description of work:**

175' trenching, 26 rock samples

**Host rock: Andesite tuff**

Age: Eocene

**Associated igneous rock:**

Age:

**General comments:**

**References:**

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Bloomer Peak ARDF no. PM036  
Type: Occurrence  
Latitude: 55.21600 Quad-250 PM  
Longitude: 160.56100 Quad-63360 A2  
Main commodity: Au, Ag, Pb Status: Inactive  
Other commodities: As, Ba, Mo, Sb Production? No

Location description and accuracy:

One mile south of Baralof Bay, .75 miles northeast of Bloomer Peak. 3500' southeast of Shumagin, 2 miles northwest of Apollo Mine

Ore minerals:

Gangue minerals: Quartz

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Numerous small quartz veins and silicified zones along ridge. Veins generally trend N40E, dip steeply south. Jyro vein, up to 12' wide can be traced over strike length of 300' at N60E trend. Mean concentrations from trench samples are 0.041 ppm Au, 0.225 ppm Ag, and 2.848 ppm Mo.

Description of work:

Mapping at scale 1"=1000' and 1"=100', VLF-EM survey, 300' trenching, 47 rock geochemistry samples. One PM-AMRAP sample, 82ASh 27

Host rock: Andesite, dacite tuff

Age: Eocene

Associated igneous rock:

Age:

General comments:

References:

Peterson and others, 1982, Angeloni and others, 1985

Primary reference: Peterson and others, 1982

Site: Aquila ARDF no. PM037  
Type: Prospect  
Latitude: 55.18600 Quad-250 PM  
Longitude: 160.67700 Quad-63360 A3  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Production? No

**Location description and accuracy:**

Vein on east side of Acheredin Bay south of Acheredin Lake near center of section 4, T.58S., R.75W.

Ore minerals: Pyrite

Gangue minerals: Quartz, Clay

Deposit model:

Epithermal Au vein (25b,25d)

**Geologic description:**

Conjugate set of epithermal open-growth quartz veins within northeast-trending Aquila-Shumagin linear. Vein intersections show numerous periods of brecciation and fluid injection. Wall rocks are andesite flows and tuffs. Aquila vein system totals 9,000' long, 2,000' of which is explored.

**Description of work:**

In 1980 and 1981, 2326' of drilling in 6 holes on the Amethyst vein and 2120' in 7 holes on other veins in the Aquila system. Between 1979-1982, UNC Teton/RAA did 5.1 line miles VLF-EM surveying, 14.8 miles MAG surveying, other geophysical surveying, nearly 700 rock samples. Mapping at a scale of 1"=100'.

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

**General comments:**

UNC Teton/RAA recommended further drilling in 1982. Includes Fred's, Amethyst vein, Altair vein, Ankle Creek vein, Aquila vein, and Origin area. Amethyst vein has estimated 30,000 tons reserves at 7.8 g/t Au and 27.4 g/t Ag.

**References:**

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Normandy ARDF no. PM038  
Type: Prospect  
Latitude: 55.19000 Quad-250 PM  
Longitude: 160.68100 Quad-63360 A3  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Zn, Pb, Cu Production? No

Location description and accuracy:

On beach of Acheredin Bay along the east cliffs of Acheredin Bay in NW 1/4 of section 4, T.58S., R.75W.

Ore minerals: Pyrite, Chalcopyrite, Sphalerite, Galena

Gangue minerals: Quartz, Zeolite

Deposit model:

Epithermal vein (25b,25d)

Geologic description:

A 15-40' wide quartz vein with silicified andesite margins, exposed only at low tide. Extends 300' into ocean. Possibly extends 600' inland at elevation 400'. VLF-EM survey also indicated anomaly 3000' along strike.

Description of work:

VLF-EM survey, rock sampling. Trenching unsuccessful at exposing either landward or scarpward extensions due to soil depth and water flooding.

Host rock: Andesite

Age: Eocene

Associated igneous rock:

Age:

General comments:

See also Aquila PM037 and Dave's PM039

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Dave's vein                      ARDF no. PM039  
Type: Occurrence  
Latitude: 55.18500 Quad-250 PM  
Longitude: 160.67400 Quad-63360 A3  
Main commodity: Ag, Au                      Status: Inactive  
Other commodities:                      Production? No

Location description and accuracy:  
On beach of Acheredin Bay, in the SE 1/4 of section 4, T.58S., R.75W. at an elevation of 220'.

Ore minerals: Pyrite

Gangue minerals: Quartz, Clay

Deposit model:  
Epithermal Au vein (25b,25d)

Geologic description:  
Iron stained quartz vein, 6' wide, 200' strike length. Merges with Altair vein. Ag to 210 ppm, 1.8 ppm Au.

Description of work:  
VLF-EM survey, 168' trenching, rock sampling. Trenching unsuccessful due flooding and soil depth.

Host rock: Andesite  
Age: Eocene  
Associated igneous rock:  
Age:

General comments:  
See also Aquila PM037 and Normandy PM038

References:  
Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Rising Sun ARDF no. PM040  
Type: Prospect  
Latitude: 55.19200 Quad-250 PM  
Longitude: 160.56700 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Pb Production? No

Location description and accuracy:

Claim block to southeast of Apollo Mine. One mile west of head of Delarof Bay.

Ore minerals:

Gangue minerals: Quartz

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Two zones of reticulated white quartz veins, 14' wide in adit, and decreasing to 1' at end of 37' drift, then cutoff by fault. No visible sulfides, black to brown oxidation products.

Description of work:

Part of Apollo group, 580' adit, 37' drifting. Five samples assayed by Bureau of Mines, best at .3 g/t Au, 69 g/t Ag.

Host rock: Andesite, dacite

Age: Eocene?

Associated igneous rock: Andesite, dacite

Age: Eocene

General comments:

Little information available; nothing indicates what ore might be, assume gold was the commodity of interest.

References:

Webber and others, 1946, F.H. Wilson, unpublished data, 1988

Primary reference: Webber and others, 1946

Site: Olgen ARDF no. PM041  
Type: Prospect  
Latitude: 55.19000 Quad-250 PM  
Longitude: 160.56000 Quad-63360 A2  
Main commodity: Au Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Claim block to east of Apollo Mine. Short adit on Mine Creek 1600' northwest of Delarof Harbor, 1500' east of the Apollo adit portal.

Ore minerals: Pyrite, Chalcopyrite, Galena, Sphalerite

Gangue minerals: Quartz

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Southwesterly continuation of Sitka Fracture, strikes S38W. Vuggy, oxidized quartz vein, strike length about 500'.

Description of work:

Short adit, less than 50'.

Host rock: Andesite

Age: Eocene

Associated igneous rock: Andesite

Age: Eocene

General comments:

Little available information.

References:

Webber and others, 1946; F.H. Wilson unpublished data, 1988

Primary reference: Webber and others, 1946

Site: Thormac ARDF no. PM042

Type: Occurrence

Latitude: 55.28200 Quad-250 PM

Longitude: 160.60300 Quad-63360 B2

Main commodity: Au, Ag Status: Inactive

Other commodities: Hg Production? No

Location description and accuracy:

1.42 miles southwest of Ben Green Bight on Unga Island at elevation 1200'

Ore minerals: Pyrite

Gangue minerals: Quartz

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Reticulated quartz vein system with strike length of 1200'. Single veins can exceed 3' in width. Grab samples indicate 0.005 ppm to 0.135 ppm Au, 0.2 to 19.0 ppm Ag.

Description of work:

Limited geochemical sampling by UNC Teton in 1982.

Host rock:

Age: Eocene

Associated igneous rock:

Age:

General comments:

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Norms vein                      ARDF no. PM043  
Type: Prospect  
Latitude: 55.24200 Quad-250 PM  
Longitude: 160.62900 Quad-63360 A2  
Main commodity: Ag                      Status: Inactive  
Other commodities: Cu,Pb,Zn,Au,Hg      Production? No

Location description and accuracy:  
3.3 miles west of Squaw Harbor Cannery, 2.6 miles northeast of head of Acheredin Lake. Elevation 700-800'

Ore minerals:      Sphalerite, Galena, Pyrite

Gangue minerals:      Quartz, Barite

Deposit model:  
Epithermal Au vein (25b,25d)

Geologic description:  
Zone of silicification 1800'x600'. Reticulated gossanous quartz veins in intensely brecciated and silicified andesite and rhyolite tuff. Highest values in drill holes are 1.41 ppm Au, 47 ppm Ag.

Description of work:  
UNC Teton/RAA prospect 1979-1983. In 1983, 776' of drilling in 2 holes.

Host rock: Andesite and rhyolite tuff

Age: Eocene

Associated igneous rock:

Age:

General comments:

References:

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Scarp ARDF no. PM044  
Type: Occurrence  
Latitude: 55.25800 Quad-250 PM  
Longitude: 160.35600 Quad-63360 B2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Hg Production? No

**Location description and accuracy:**

Veins above east-west beach, 8.25 miles southeast of Sand Point Airport, 1 mile southeast of BM Koppe.

Ore minerals: Marcasite, Pyrite

Gangue minerals: Quartz, Amethyst

Deposit model:

Epithermal Au vein (25b,25d)

**Geologic description:**

Zone 2000'x2500', in area of slumped tuffs and flows with dips to 45 degrees. Veins are largely localized on margins of slump block. Veins to 3' thick, average 1.5' 1200' of strike length. The presence of marcasite, amethyst, and mercury are thought to indicate low temperature emplacement. Highest concentrations in grab samples are 0.960 ppm Au, 13 ppm Ag, 66 ppm Cu, 45 ppm Pb, 175 ppm Zn.

**Description of work:**

Host rock: Andesite, tuff and flows

Age: Eocene

Associated igneous rock:

Age:

**General comments:**

Discovered in 1982 by UNC Teton

**References:**

Peterson and others, 1982

Primary reference: Peterson and others, 1982

Site: Rhodo ARDF no. PM045

Type: Occurrence

Latitude: 55.29200 Quad-250 PM

Longitude: 160.48500 Quad-63360 B2

Main commodity: Au, Ag Status: Inactive

Other commodities: Pb, Zn, Cu, Hg Production? No

Location description and accuracy:

300-400' west of Brown Zinc (Suzy, PM011) adit in steep gulch.

Ore minerals: Sphalerite, Galena, Chalcopyrite

Gangue minerals: Quartz, Calcite, Rhodonite, Siderite, Pyrite

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Reticulate quartz vein system 5' thick in andesite. Quartz is fine with few vugs or open-growth features. Channel samples generally do not exceed 0.130 ppm Au, 1.3 ppm Ag, 290 ppm Cu, 1,830 ppm Pb, and 11,600 ppm Zn.

Description of work:

Host rock: Andesite

Age: Eocene

Associated igneous rock: Andesite

Age: Eocene

General comments:

May postdate Brown Zinc (Suzy) PM011

References:

Peterson and others, 1982 p. 106-107

Primary reference: Peterson and others, 1982

Site: West Lodes (Sowhat) ARDF no. PM046  
Type: Prospect  
Latitude: 55.29200 Quad-250 PM  
Longitude: 160.45700 Quad-63360 B2  
Main commodity: Au Status: Inactive  
Other commodities: Pb, Cu, Zn, Ag Production? No

**Location description and accuracy:**

Four miles southeast of the Sand Point spit on north shore of Red Cove. Veins are in sea cliffs at northern entrance to Cove facing exposed, narrow bouldery beach.

**Ore minerals:** Pyrite, Chalcopyrite, Galena, Sphalerite

**Gangue minerals:** Quartz, Calcite

**Deposit model:**

Epithermal Au vein (25b,25d)

**Geologic description:**

Two veins in northeasterly trending fracture zone. Vein I is 1-4' wide, is intermittently exposed along strike length of 800-1000'. Vein II has a strike length of about 800' with reported width of at least 4.6'. Grab samples show 1.18 ppm Au, 78.2 ppm Ag, and 99,000 ppm Zn.

**Description of work:**

Two unpatented claims, no workings described.

**Host rock:** Andesite

Age: Eocene

**Associated igneous rock:** Andesite

Age: Eocene

**General comments:**

Appears to be same as UNC-Teton Exploration's "Sowhat" veins.

**References:**

Webber and others, 1946, p.30-32; Peterson and others, 1982

**Primary reference:**

Site: Herron (E.C.) ARDF no. PM047  
Type: Prospect  
Latitude: 55.20300 Quad-250 PM  
Longitude: 160.51500 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

About 1.5 miles north of village of Unga, near trail between Unga and Baralof Bay.

Ore minerals:

Gangue minerals: Quartz, Pyrite, Jasper

Deposit model:

Epithermal Au vein (25b,25d)

Geologic description:

Silicified shear zone, very low pyrite content relative to district.

Description of work:

Two unpatented claims held for more than 40 years, shaft of unknown depth at northwest end of claims, pits in middle and on southeast.

Host rock: Andesite

Age: Eocene

Associated igneous rock: Andesite

Age: Eocene

General comments:

Assumed to be Au prospect, no indication of ore minerals. Could be UNC-Teton Exploration's E.C. vein prospect.

References:

Webber and others, 1946; Trujillo and others, 1981

Primary reference: Webber and others, 1946

Site: Zachary Bay                      ARDF no. PM048  
Type: Prospect  
Latitude: 55.28300 Quad-250 PM  
Longitude: 160.70000 Quad-63360 B2  
Main commodity: Cu                      Status: Inactive  
Other commodities: Au                      Production? No

**Location description and accuracy:**

Large area, actual prospect somewhat inland from Zachary Bay.

**Ore minerals:** Chalcopyrite, chalcocite, covellite, molybdenite

**Gangue minerals:** Pyrite, Biotite, Plagioclase, Quartz, Sericite, Magnetite, Chlorite, Epidote

**Deposit model:**

Porphyry Cu-Au

**Geologic description:**

Andesite intruded by quartz diorite, main body approximately 1000'x1500'. One diatreme noted. Much alluvium covers prospect, alteration patterns are difficult to discern. Reported propylitic, quartz-sericite, magnetite-plagioclase alteration. Rare potassic (biotite) alteration. Mineralization associated with feldspar porphyry on western edge of color anomaly.

**Description of work:**

In 1975, 955' of drilling at 4 holes in 1975. Geologic mapping and geochemical sampling in 1974, and a magnetometer survey in 1975 led to drilling. Assays to 0.36% Cu, 0.004% Mo, 0.08 Oz/ton Ag, 0.016 Oz/ton Au over 150 foot traverse. Drill hole Z-1 averaged 0.11 percent Cu and 0.28 ppm Au over 383'. Rumored and unconfirmed potassium-argon age of 21.0 Ma.

**Host rock:** Andesite

Age: Eocene

**Associated igneous rock:** Quartz diorite

Age: Miocene

**General comments:**

Only low grade Cu found.

**References:**

Dircks and Richards, 1976; Christie, 1974; Christie and Richards, 1974; Trujillo and others, 1981

**Primary reference:** Dircks and Richards, 1976

Site: Canoe Bay ARDF no. PM049  
Type: Prospect  
Latitude: 55.60000 Quad-250 PM  
Longitude: 161.25000 Quad-63360 C4  
Main commodity: Au, Ag, Sn, Pb Status: Inactive  
Other commodities: As, Ba, Cu, Hg, Zn Production? No

Location description and accuracy:  
Ridge north side of Canoe Bay between bay and Mt. Dana.

Ore minerals: Unidentified sulfides

Gangue minerals: Pyrite

Deposit model:

Porphyry Cu (17), Polymetallic vein (22c), Epithermal Au vein (25b, 25d)

Geologic description:

Rhyolitic(?) dome intruding siltstone of late Cretaceous Hoodoo Formation and possibly early Tertiary Tolstoi Formation. Anomalous area covers 600'x4000'. Fine gold in pans, up to 415 ppm Au, 6.7 ppm Hg, 1300 ppm Pb, 420 ppm Zn.

Description of work:

1750 rock and soil samples, 700' backhoe trenching, several hundred feet of hand trenches. PM-AMRAP samples 83APk 66-68

Host rock: Siltstone

Age: Cretaceous

Associated igneous rock: Rhyodacite(?)

Age: Quaternary, Pliocene

General comments:

References:

Butherus and others, 1979; Anderson and others, 1980; Trujillo and others, 1982; Freeport, 1985; Angeloni and others, 1985

Primary reference: Freeport, 1984

Site: Heather Creek                      ARDF no. PM050  
Type: Prospect  
Latitude: 55.17670 Quad-250 PM  
Longitude: 160.61500 Quad-63360 A2  
Main commodity: Au, Ag                      Status: Inactive  
Other commodities:                      Production? No

**Location description and accuracy:**

One mile north of south end of Unga Island, west of head of Delarof Harbor. 4,000' southwest of California vein adit (PM089).

**Ore minerals:**

Gangue minerals: Quartz

**Deposit model:**

Epithermal Au vein (25b,25d)

**Geologic description:**

Zone of narrow discontinuous veins, each less than 1 foot wide. Splay off Apollo trend. Visible strike length of 2,500 feet. Brecciated and silicified knob of iron-stained andesite 100 feet by 1,000 feet. Grab samples contain up to 0.23 ppm Au, 10.0 ppm Ag.

**Description of work:**

Limited sampling.

Host rock: Andesite

Age: Eocene

Associated igneous rock: Andesite

Age: Eocene

**General comments:**

**References:**

Webber and others, 1946; Peterson and others, 1982 p. 82

Primary reference: Peterson and others, 1982

Site: PMRGX-1 ARDF no. PM051  
Type: Occurrence  
Latitude: 55.10500 Quad-250 PM  
Longitude: 160.02000 Quad-63360 A1  
Main commodity: Cu, Ag Status: Inactive  
Other commodities: Sb, Zn Production? No

Location description and accuracy:  
Head of Sanborn Harbor on Nagai Island

Ore minerals:

Gangue minerals:

Deposit model:  
Polymetallic vein (22c)

Geologic description:

Shumagin Fm. at contact with Shumagin batholith. Of the samples collected, one is pale-green fine-grained sulfide-bearing sandstone, one is leucocratic granite(?) of Shumagin batholith, others are sandstone and siltstone of the Shumagin Fm.

Description of work:

PM-AMRAP samples 84AWs 145, 152, 84ADt 169

Host rock: Sandstone

Age: Cretaceous

Associated igneous rock: Granodiorite

Age: Paleocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-2 ARDF no. PM052

Type: Occurrence

Latitude: 55.19900 Quad-250 PM

Longitude: 160.48900 Quad-63360 A2

Main commodity: Cu, Pb Status: Inactive

Other commodities: As, Sb Production? No

Location description and accuracy:

Northwest of Kelly Rock along beach

Ore minerals:

Gangue minerals: Pyrite, Quartz

Deposit model:

Epithermal vein (25b, 25d)

Geologic description:

Sulfide-rich dolomitic vein material cutting sheared volcaniclastic rock. Also a rhyolite cut by a quartz vein with no visible mineralization.

Description of work:

PM-AMRAP samples 85AWs 294-296, 82ADt 26

Host rock: Andesite, tuff

Age: Eocene

Associated igneous rock: Rhyolite

Age: Eocene?

General comments:

References:

Angeloni and others, 1985; Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-4 ARDF no. PM053  
Type: Occurrence  
Latitude: 55.08300 Quad-250 PM  
Longitude: 161.59700 Quad-63360 A5  
Main commodity: Cu, Ag Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
West side of Poperechnoi Island

Ore minerals:

Gangue minerals:

Deposit model:

Porphyry Cu (17), polymetallic vein (22c)

Geologic description:

Hypabyssal andesite intrusion in mineralized breccia and sandstone of Belkofski Fm.

Description of work:

PM-AMRAP samples 84AJm 733-734

Host rock: Breccia

Age: Tertiary

Associated igneous rock: Andesite

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-5 ARDF no. PM054  
Type: Occurrence  
Latitude: 55.17500 Quad-250 PM  
Longitude: 161.83900 Quad-63360 A6  
Main commodity: Cu, Pb, Zn Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Northwest part of Dolgoi Island

Ore minerals:

Gangue minerals: Pyrite

Deposit model:  
Porphyry Cu (17), polymetallic vein (22c)

Geologic description:  
Altered dioritic intrusion in Belkofski Fm. Abundant sulfides with propylitic and argillic alteration.

Description of work:  
PM-AMRAP samples 84AAi 79, 84AJm 715

Host rock: Breccia

Age: Tertiary

Associated igneous rock: Quartz Diorite

Age: Miocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-6 ARDF no. PM055  
Type: Occurrence  
Latitude: 55.29400 Quad-250 PM  
Longitude: 160.42600 Quad-63360 B2  
Main commodity: Au Status: Inactive  
Other commodities: Pb, Sb, As, Ba Production? No

Location description and accuracy:  
On beach on east side of Red Cove, also next bay to the east, Popof Island

Ore minerals:

Gangue minerals:

Deposit model:  
Epithermal Au vein (25b, 25d)

Geologic description:  
Fresh to very altered volcanic breccias and andesite flows.

Description of work:  
PM-AMRAP samples 83AAi 57-61, 85AAi 101-106

Host rock: Volcanic breccia, andesite

Age: Tertiary

Associated igneous rock: Andesite?

Age: Tertiary

General comments:

References:

Angeloni and others, 1985; Wilson and others, 1987

Primary reference: Angeloni and others, 1985

Site: PMRGX-7 ARDF no. PM056

Type: Occurrence

Latitude: 55.31200 Quad-250 PM

Longitude: 160.45900 Quad-63360 B2

Main commodity: Cu Status: Inactive

Other commodities: As, Pb, Sb Production? No

**Location description and accuracy:**

Broad ridge on Popof Island about 2 miles southeast of Sand Point. Location is approximate, in middle of four samples.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Epithermal Au vein (25b, 25d)

**Geologic description:**

Altered porphyritic basalt, northern most sample only anomalous in Pb

**Description of work:**

PM-AMRAP samples 85ACe 225-227, 85AWs 299

**Host rock: Basalt**

Age: Oligocene

**Associated igneous rock: Basalt**

Age:

**General comments:**

**References:**

Wilson and others, 1987

**Primary reference: Wilson and others, 1987**

Site: PMRGX-8 ARDF no. PM057  
Type: Occurrence  
Latitude: 55.34200 Quad-250 PM  
Longitude: 160.61600 Quad-63360 B2  
Main commodity: Au, Pb Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Round Island in Zachary Bay of Unga Island

Ore minerals:

Gangue minerals:

Deposit model:  
Epithermal Au vein (25b, 25d)

Geologic description:  
Silicified andesitic tuff

Description of work:  
PM-AMRAP samples 83AWs 145-146

Host rock: Andesite  
Age: Miocene?  
Associated igneous rock: Andesite  
Age: Miocene?

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985



Site: PMRGX-10

ARDF no. PM059

Type: Occurrence

Latitude: 55.28500 Quad-250 PM

Longitude: 160.67400 Quad-63360 B3

Main commodity: Ag, Pb, Zn Status: Inactive

Other commodities: As, Sb Production? No

Location description and accuracy:

4.5 miles southeast of Fourth Peak on ridge, Unga Island

Ore minerals:

Gangue minerals: Pyrite

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Propylitically altered dacite(?), locally has sulfides

Description of work:

PM-AMRAP samples 85AAi 107, 109-110

Host rock: Dacite(?)

Age: Tertiary

Associated igneous rock: Dacite(?)

Age: Tertiary

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-11 ARDF no. PM060

Type: Occurrence

Latitude: 55.41600 Quad-250 PM

Longitude: 161.25700 Quad-63360 B4

Main commodity: Sb Status: Inactive

Other commodities: Production? No

**Location description and accuracy:**

Approximate middle of 5 samples, about 2.5 miles north of Bobrovia Mountain.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Andesitic flows, volcanic breccias, and sandstone and shale.

**Description of work:**

PM-AMRAP samples 84AJm 739-743, 84AWr 74-77

**Host rock: Andesite**

Age: Tertiary

**Associated igneous rock: Andesite**

Age: Tertiary

**General comments:**

**References:**

Angeloni and others, 1985

**Primary reference: Angeloni and others, 1985**

Site: PMRGX-12                      ARDF no. PM061  
    Type: Occurrence  
Latitude: 55.41100    Quad-250    PM  
Longitude: 161.48300    Quad-63360    B5  
Main commodity:    Cu, Zn                      Status: Inactive  
Other commodities: Ba                      Production? No

Location description and accuracy:  
    East shore of Pavlof Bay

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

    Samples from Tolstoi Fm. type section.

Description of work:

    PM-AMRAP sample 84ADt 279

Host rock: Tolstoi Formation

    Age: e. Tertiary

Associated igneous rock: Andesite

    Age: Eocene?

General comments:

References:

    Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-13 ARDF no. PM062  
Type: Occurrence  
Latitude: 55.70300 Quad-250 PM  
Longitude: 160.29400 Quad-63360 C1  
Main commodity: Pb, Zn Status: Inactive  
Other commodities: As, Sb Production? No

**Location description and accuracy:**

Ridge on east side of Chichagof valley, lat. and long. from the middle of 3 samples.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Polymetallic vein (22c)

**Geologic description:**

Sandstone, shale, and mudstone of Stepovak Fm. cut by basalt or diabase dikes.  
Near American Bay batholith.

**Description of work:**

PM-AMRAP samples 83ACe 77-79, 86ADt 376-377

**Host rock:** Sandstone, shale, mudstone

Age: Oligocene

**Associated igneous rock:** Basalt(?)

Age: Pliocene(?)

**General comments:**

**References:**

Angeloni and others, 1985; Wilson and others, 1987

**Primary reference:** Angeloni and others, 1985

Site: PMRGX-14

ARDF no. PM063

Type: Occurrence

Latitude: 55.72900 Quad-250 PM

Longitude: 160.12000 Quad-63360 C1

Main commodity: Ag, Pb, Zn Status: Inactive

Other commodities: As, Cu, Sb, Sn Production? No

Location description and accuracy:

East shore of American Bay.

Ore minerals:

Gangue minerals: Pyrite, Quartz

Deposit model:

Polymetallic vein (22c)

Geologic description:

Mineralized andesite(?) with fine-grained sulfides and massive sulfides in a 3 inch vein intruding Tolstoi Fm. Near American Bay batholith (1/2 mile)

Description of work:

PM-AMRAP sample 83APk 33

Host rock: Sandstone

Age: Eocene

Associated igneous rock: Andesite

Age: Pliocene(?)

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-15 ARDF no. PM064

Type: Occurrence

Latitude: 55.73100 Quad-250 PM

Longitude: 160.05300 Quad-63360 C1

Main commodity: Sb Status: Inactive

Other commodities: As, Ba Production? No

Location description and accuracy:

Top of peak on north side of Orinski Bay

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Volcanogenic sandstone and siltstone with local conglomerate (Stepovak Fm.)  
intruded by numerous basalt(?) dikes or sills.

Description of work:

PM-AMRAP sample 83ACe 61

Host rock: Sandstone

Age: Oligocene

Associated igneous rock: Basalt(?)

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-16 ARDF no. PM065  
Type: Occurrence  
Latitude: 55.74700 Quad-250 PM  
Longitude: 160.02000 Quad-63360 C1  
Main commodity: Sb, Zn Status: Inactive  
Other commodities: As, Ba Production? No

Location description and accuracy:  
West side of Clark Bay

Ore minerals:

Gangue minerals:

Deposit model:

Epithermal vein (25b, 25d), polymetallic vein (22c)

Geologic description:

Amygdaloidal andesite flows and near vertical alteration zone with abundant sulfides in sericitically altered volcanic sandstone and siltstone.

Description of work:

PM-AMRAP samples 83AWs 91

Host rock: Sandstone

Age: Eocene

Associated igneous rock: Andesite

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-17 ARDF no. PM066

Type: Occurrence

Latitude: 55.54800 Quad-250 PM

Longitude: 160.54800 Quad-63360 C2

Main commodity: Pb, Zn Status: Inactive

Other commodities: As, Ba Production? No

Location description and accuracy:

Ridge crest, east side of Balboa Bay.

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Sandstone, siltstone, shale, and conglomerate of Bear Lake Fm. intruded by andesitic(?) dikes

Description of work:

PM-AMRAP samples 83AYb 554, 557-558

Host rock: Sandstone

Age: Miocene

Associated igneous rock: Andesite(?)

Age: Miocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-18

ARDF no. PM067

Type: Occurrence

Latitude: 55.59400 Quad-250 PM

Longitude: 160.54500 Quad-63360 C2

Main commodity: Pb, Zn Status: Inactive

Other commodities: As, Ba, Cu, Sn Production? No

Location description and accuracy:

Two miles east of Albatross Anchorage

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c), Hot-spring Au-Ag (25a), Epithermal Au vein (25b, 25d)

Geologic description:

Altered sandstone and volcanic rocks. Associated andesite(?) dikes and sills.

Description of work:

PM-AMRAP samples 85ADt 344-348

Host rock: Sandstone and andesite

Age: Miocene(?)

Associated igneous rock: Andesite

Age: Miocene

General comments:

Periphery of San Diego Bay prospect (PM021) altered zone.

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-19 ARDF no. PM068

Type: Occurrence

Latitude: 55.70000 Quad-250 PM

Longitude: 160.52200 Quad-63360 C2

Main commodity: Ag, Cu Status: Inactive

Other commodities: Production? No

Location description and accuracy:

Middle fork of the headwaters of Lawrence Creek

Ore minerals:

Gangue minerals: Quartz, pyrite

Deposit model:

Porphyry Cu (17)

Geologic description:

Mineralized coarse-grained granodiorite pluton with many quartz-pyrite veins.

Description of work:

PM-AMRAP sample 86AWs 358

Host rock: Granodiorite

Age: Tertiary

Associated igneous rock: Granodiorite

Age: Tertiary

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-20 ARDF no. PM069

Type: Occurrence

Latitude: 55.60600 Quad-250 PM

Longitude: 160.50000 Quad-63360 C2

Main commodity: Cu, Pb, Zn Status: Inactive

Other commodities: Production? No

Location description and accuracy:

Approximately 1.5 miles northwest of San Diego Bay

Ore minerals:

Gangue minerals:

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Altered andesitic dikes intruding altered volcanic and sedimentary (?) rocks

Description of work:

PM-AMRAP samples 85AYb 739-740, 85AJm 805

Host rock: Andesite

Age: Miocene(?)

Associated igneous rock: Andesite

Age: Miocene(?)

General comments:

Part of San Diego Bay prospect (PM021) altered zone.

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-22 ARDF no. PM070  
Type: Occurrence  
Latitude: 55.71600 Quad-250 PM  
Longitude: 160.58200 Quad-63360 C2  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Ridge on northeast side of Grass Valley

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c), porphyry Cu (17)

Geologic description:

Periphery of altered silicic (silicified?) pluton intruding Tolstoi Fm. 4 samples, northernmost in basalt(?) plug or sill.

Description of work:

PM-AMRAP samples 84ACe 194-197

Host rock: Sandstone

Age: Eocene

Associated igneous rock: Granodiorite or basalt

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-23 ARDF no. PM071  
Type: Occurrence  
Latitude: 55.55300 Quad-250 PM  
Longitude: 160.74900 Quad-63360 C3  
Main commodity: Pb Status: Inactive  
Other commodities: As, Ba Production? No

Location description and accuracy:  
Shore, north side of Lefthand Bay.

Ore minerals:

Gangue minerals:  
Deposit model:

Geologic description:  
Iron staining in sandstone, siltstone, and thin-bedded tuff

Description of work:  
PM-AMRAP samples 83APk 48-49

Host rock: Sandstone, siltstone, tuff  
Age: Oligocene  
Associated igneous rock:  
Age:

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-24 ARDF no. PM072  
Type: Occurrence  
Latitude: 55.58300 Quad-250 PM  
Longitude: 160.94200 Quad-63360 C3  
Main commodity: Pb, Zn Status: Inactive  
Other commodities: Ba Production? No

Location description and accuracy:  
Five miles due north of the west end of Beaver Bay

Ore minerals:

Gangue minerals:

Deposit model:  
Polymetallic vein (22c)

Geologic description:

Pencil shale and rusty siltstone of Hoodoo Fm. along axis of anticline. Intruded by numerous small dikes. Rock type of dikes not given in notes.

Description of work:

PM-AMRAP sample 83ADt 102

Host rock: Shale

Age: Cretaceous

Associated igneous rock: Andesitic(?) dikes

Age: Tertiary(?)

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-25 ARDF no. PM073

Type: Occurrence

Latitude: 55.58900 Quad-250 PM

Longitude: 160.88100 Quad-63360 C3

Main commodity: Cu, Zn Status: Inactive

Other commodities: As, Ba Production? No

Location description and accuracy:

5.25 miles southeast of the east summit of Hoodoo Mountain.

Ore minerals:

Gangue minerals: Quartz, Calcite, Pyrite

Deposit model:

Polymetallic vein (22c)

Geologic description:

Dark shale cut by qtz veinlets and an andesite sill. Sill has disseminated pyrite. On periphery of diorite(?) pluton or sill found to east.

Description of work:

PM-AMRAP samples 85AYb 719-720, 85AWs 303, 305

Host rock: Shale

Age: Cretaceous

Associated igneous rock: Diorite, andesite

Age: Tertiary

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-26 ARDF no. PM074

Type: Occurrence

Latitude: 55.64400 Quad-250 PM

Longitude: 160.85500 Quad-63360 C3

Main commodity: Pb, Zn Status: Inactive

Other commodities: Production? No

Location description and accuracy:

On a ridge top 5.5 miles east of Hoodoo Mountain

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Hoodoo Fm. shale, no mention of alteration or mineralization.

Description of work:

PM-AMRAP samples 85AAi 96, 85ACe 215, 85ADt 326

Host rock: Siltstone, shale

Age: Cretaceous

Associated igneous rock:

Age:

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-27 ARDF no. PM075  
Type: Occurrence  
Latitude: 55.50300 Quad-250 PM  
Longitude: 161.30100 Quad-63360 C4  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: Sb Production? No

Location description and accuracy:  
On ridge above headwaters of Ness Creek.

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Basalt(?) dike intruding Hoodoo Fm.

Description of work:

PM-AMRAP samples 84AWs 240-241

Host rock: Siltstone

Age: Cretaceous

Associated igneous rock: Basalt dike

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-28 (Four Bear) ARDF no. PM076  
Type: Occurrence  
Latitude: 55.60700 Quad-250 PM  
Longitude: 161.09900 Quad-63360 C4  
Main commodity: Ag, Pb, Zn Status: Inactive  
Other commodities: As Production? No

Location description and accuracy:  
One mile north of origin of Four Bear Creek

Ore minerals: Sphalerite

Gangue minerals: Pyrite, Opal, Tourmaline, Calcite

Deposit model:

Epithermal Au vein (25b, 25d), Porphyry Cu (17)

Geologic description:

Small, poorly exposed stock intruding Hoodoo Fm. (and possibly Tolstoi Fm.).  
Region is strongly iron-stained and hornfelsed. Silicification is common. Pebble or breccia dikes are common in intrusive and nearby sedimentary rocks.  
Hydrothermal alteration ranges from propylitic to argillic to sericitic. Sericitically altered volcanic rocks with abundant sulfides.

Description of work:

87 rock and soil samples by RAA in 1983, PM-AMRAP sample 84AYb 671.

Host rock: Siltstone, sandstone

Age: Cretaceous

Associated igneous rock: Andesite, quartz diorite

Age: Tertiary

General comments:

References:

Trujillo and others, 1983; Freeport, 1985; Angeloni and others, 1985

Primary reference: Trujillo and others, 1983

Site: PMRGX-29 ARDF no. PM077

Type: Occurrence

Latitude: 55.66500 Quad-250 PM

Longitude: 161.18300 Quad-63360 C4

Main commodity: Cu Status: Inactive

Other commodities: As Production? No

Location description and accuracy:

Ore minerals:

Gangue minerals:

Deposit model:

Volcanic hosted Cu-As-Sb (22a)

Geologic description:

Shale, lithic tuff, and pumice lapilli tuff.

Description of work:

PM-AMRAP samples 84AYb 666-667

Host rock: Shale and tuff

Age:

Associated igneous rock: Tuff

Age: Quaternary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-30 ARDF no. PM078

Type: Occurrence

Latitude: 55.56100 Quad-250 PM

Longitude: 161.39400 Quad-63360 C5

Main commodity: Au, Cu, Pb Status: Inactive

Other commodities: Production? No

Location description and accuracy:

Shore of Pavlof Bay, 2 miles southwest of entrance to Canoe Bay

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Porphyritic basalt sill intruding Tolstoi Fm.

Description of work:

PM-AMRAP sample 83AWs 134

Host rock: Sandstone

Age: Paleocene

Associated igneous rock: Basalt

Age: Eocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-31 ARDF no. PM079

Type: Occurrence

Latitude: 55.79300 Quad-250 PM

Longitude: 160.06100 Quad-63360 D1

Main commodity: Ag, Pb, Zn Status: Inactive

Other commodities: As, Cu, Sb Production? No

Location description and accuracy:

On ridge starting at northwest head of Clark Bay.

Ore minerals:

Gangue minerals: Quartz

Deposit model:

Polymetallic vein (22c)

Geologic description:

Outcrops of conglomerate, siltstone, and sandstone cut by quartz veins and altered aphanitic dikes or sills. About 1 mile west from the ridge, sample 83AWs 105b was anomalous in Ag and was collected from hornfelsed siltstone.

Description of work:

PM-AMRAP samples 83AYb 532-537, 83AWs 105b

Host rock: Sandstone, siltstone

Age: Eocene

Associated igneous rock: Andesite(?)

Age: 1. Tertiary

General comments:

Volcanic rocks may be part of the early phase of the Stepovak Bay group volcanos.

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-32 ARDF no. PM080  
Type: Occurrence  
Latitude: 55.81700 Quad-250 PM  
Longitude: 160.08400 Quad-63360 D1  
Main commodity: Au Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
2.25 miles northwest of Clark Bay.

Ore minerals:

Gangue minerals:

Deposit model:  
Polymetallic vein (22c)

Geologic description:

Tolstoi sandstone, siltstone, and conglomerate intruded by hornblende andesite sills and basaltic(?) dikes(?), all slightly baked.

Description of work:

PM-AMRAP sample 83AWs 107

Host rock: Sandstone, siltstone

Age: Eocene

Associated igneous rock: Andesite(?)

Age: 1. Tertiary

General comments:

Volcanic rocks may be part of the early phase of the Stepovak Bay group volcanos.

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-33 ARDF no. PM081

Type: Occurrence

Latitude: 55.87600 Quad-250 PM

Longitude: 160.06400 Quad-63360 D1

Main commodity: Au Status: Inactive

Other commodities: Production? No

Location description and accuracy:

5.5 miles northwest of head of Grub Gulch, 7.5 miles southeast of Bear Lake.

Ore minerals:

Gangue minerals:

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Andesite flow, may be surface of dome or agglomerate. Ridge to the northwest, which runs southwest to northeast is strongly iron-stained and altered.

Description of work:

PM-AMRAP sample 83AWs 108

Host rock: Andesite

Age: Quaternary

Associated igneous rock: Andesite

Age: Quaternary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-34 ARDF no. PM082

Type: Occurrence

Latitude: 55.91100 Quad-250 PM

Longitude: 160.07600 Quad-63360 D1

Main commodity: Cu, Pb Status: Inactive

Other commodities: Production? No

Location description and accuracy:

8 miles northwest of head of Grub Gulch, 5 miles east of Bear Lake at elevation of 1500' on flank of volcano 4340 feet high in Stepovak Bay Group.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Sericitic and argillic alteration zone in andesitic volcanic rocks.

Description of work:

PM-AMRAP sample 84AWs 203

Host rock: Andesite

Age: Quaternary

Associated igneous rock: Andesite

Age: Quaternary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-35 ARDF no. PM083  
Type: Occurrence  
Latitude: 55.82500 Quad-250 PM  
Longitude: 160.54200 Quad-63360 D2  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: Sb Production? No

Location description and accuracy:  
Peak at 1725 feet, 3 miles west of Mud Bay.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Basaltic(?) flows with interbedded volcanic breccia and pockets of sedimentary rocks with abundant oyster fossils.

Description of work:

PM-AMRAP samples 84ACe 174, 86AWs 394

Host rock: Basalt

Age: Eocene

Associated igneous rock: Basalt

Age: Eocene

General comments:

References:

Angeloni and others, 1985; Wilson and others, 1987

Primary reference: Angeloni and others, 1985

Site: PMRGX-36 ARDF no. PM084  
Type: Occurrence  
Latitude: 55.78600 Quad-250 PM  
Longitude: 160.61700 Quad-63360 D2  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Coal Valley

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Calc-arenite and siltstone cut by diorite dike. Siltstone anomalous in Zn.

Description of work:

PM-AMRAP samples 86AWs 389-390

Host rock: Siltstone, calc-arenite

Age: Mesozoic

Associated igneous rock: Diorite dike

Age: Tertiary(?)

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: PMRGX-3 (Smoker) ARDF no. PM085  
Type: Occurrence  
Latitude: 55.17200 Quad-250 PM  
Longitude: 160.67500 Quad-63360 A3  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Cu, Pb, Sb, Sn Production? No

Location description and accuracy:  
East side of Acheredin Bay

Ore minerals:

Gangue minerals: Pyrite  
Deposit model:  
Epithermal Au vein (25b, 25d)

Geologic description:  
Large altered zone in volcanic rocks and possibly some Stepovak Fm. sedimentary rocks. Acid sulfate alteration is extensive and much of original material is replaced by pyrite.

Description of work:  
PM-AMRAP samples 82AWs 26 (a-f). UNC-Teton Exploration examined and called it a "smoker-type" occurrence and found little of interest.

Host rock: Andesite, Basalt, tuff  
Age: Eocene  
Associated igneous rock: Andesite, Basalt, tuff  
Age: Eocene

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: PMRGX-21 (Mud Bay) ARDF no. PM086

Type: Occurrence

Latitude: 55.73300 Quad-250 PM

Longitude: 160.50700 Quad-63360 C2

Main commodity: Ag, Cu, Pb, Zn Status: Inactive

Other commodities: As, Bi, Cd, Sb Production? No

**Location description and accuracy:**

South of Mud Bay, 5.5 miles east of Herendeen Bay and 6 mile northwest of Dorenoi Bay

**Ore minerals:** Galena

**Gangue minerals:** Quartz

**Deposit model:**

Polymetallic vein (22c)

**Geologic description:**

Siltstone and sandstone of Stepovak Fm. cut by dike swarms. Propylitic alteration of dikes. Sedimentary rocks have numerous dark manganese(?) stained beds. In a few relatively thick beds are veins containing masses of galena. Gossan.

**Description of work:**

PM-AMRAP samples 85AWs 281-285, RAA sample M13 1022

**Host rock:** Sandstone, siltstone

**Age:** Oligocene

**Associated igneous rock:** Andesite(?)

**Age:** Tertiary

**General comments:**

**References:**

Butherus and others, 1979; Andersen and others, 1980; Trujillo and others, 1982; Freeport, 1985; Wilson and others, 1987.

**Primary reference:** Freeport, 1984

Site: Sapsuk Lake ARDF no. PM087

Type: Occurrence

Latitude: 55.66800 Quad-250 PM

Longitude: 160.92500 Quad-63360 C3

Main commodity: Ag, Cu, Pb, Zn Status: Inactive

Other commodities: Au, Mo Production? No

**Location description and accuracy:**

Approximate location based 3 miles northwest of Sapsuk Lake based on description in Trujillo and others, 1982.

Ore minerals: Chalcopyrite

Gangue minerals: Tourmaline(?), Pyrite

Deposit model:

Volcanic hosted Cu-As-Sb (22a)

**Geologic description:**

Tourmaline (?) cemented breccia pipes in near proximity to quartz porphyry (granodiorite?) plug and andesite or dacite volcanic rocks. Volcanic rocks are argillized.

**Description of work:**

Limited RAA sampling and mapping.

Host rock: Andesite or dacite

Age: Tertiary(?)

Associated igneous rock: Andesite or dacite

Age: Tertiary(?)

**General comments:**

**References:**

Trujillo and others, 1982, p. 62

Primary reference: Trujillo and others, 1982

Site: Mt. Dana ARDF no. PM088

Type: Occurrence

Latitude: 55.62500 Quad-250 PM

Longitude: 161.23600 Quad-63360 C4

Main commodity: Ag, Au, Pb Status: Inactive

Other commodities: As, Zn Production? No

Location description and accuracy:

Travertine (tufa) deposit at active(?) hot spring on Mt. Dana volcano just west of Knutson Lake.

Ore minerals: Galena

Gangue minerals: Travertine

Deposit model:

Hot-spring Au-Ag (25a)

Geologic description:

Travertine (tufa?) deposit at active(?) hot spring on Mt. Dana volcano, just west of Knutson Lake.

Description of work:

Limited mapping and sampling by RAA. Pan samples yielded to 6.1 ppm Au, 2000 ppm Pb, and 17.5 ppm Ag.

Host rock: Siltstone, sandstone

Age: Cretaceous

Associated igneous rock:

Age:

General comments:

References:

Trujillo and others, 1982

Primary reference: Trujillo and others, 1982

Site: California ARDF no. PM089  
Type: Prospect  
Latitude: 55.17970 Quad-250 PM  
Longitude: 160.59170 Quad-63360 A2  
Main commodity: Au, Ag Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
7,000 feet southwest of lower tunnel portal, Apollo Mine (PM006).

Ore minerals:

Gangue minerals: Quartz, Pyrite  
Deposit model:  
Epithermal Au vein (25b,25d)

Geologic description:  
Zone of 0.2 inch wide, open-growth quartz veinlets in bleached, partly argillized felsic tuff with disseminated iron oxide pseudomorphs of pyrite. On Apollo trend.

Description of work:  
One caved north-trending adit. Small dump. In 1983, 2575 feet of drilling in 4 holes; VLF and EM geophysical surveys, geochemical sampling.

Host rock: Felsic tuff  
Age: Oligocene  
Associated igneous rock:  
Age:

General comments:

References:  
Webber and others, 1946 p. 24; Alaska Apollo Gold Mines Ltd., written communication, 1983; W.H. White, personal data, 1988.

Primary reference: Webber and others, 1946

Site: Ivanof (Kawisgag) ARDF no. SB001  
Type: Prospect  
Latitude: 55.86700 Quad-250 SB  
Longitude: 159.41700 Quad-63360 D5  
Main commodity: Au,Ag,Cu,Mo,Zn Status: Inactive  
Other commodities: As,Ba,Sn,Sb,Pb Production? No

**Location description and accuracy:**

In valleys on north and south side of VABM "Short" between Humpback and Ivanof Bays.

**Ore minerals:** Chalcopyrite

**Gangue minerals:** Quartz, pyrite

**Deposit model:**

Porphyry Cu (17), polymetallic vein (22c)

**Geologic description:**

Porphyry type mineralization related to small pluton intruding Eocene Tolstoi Fm. sandstone and conglomerate. Veinlet and replacement mineralization in pluton and Tolstoi Fm. Minor potassic and sericitic alteration with propylitic alteration over a wide area.

**Description of work:**

Extensive sampling by USGS and Bear Creek Mining Co. PM-AMRAP samples 83APk 7-12, 83AAi 15, 84AGe 28-32

**Host rock:** Sandstone and conglomerate

Age: Eocene

**Associated igneous rock:** Quartz diorite

Age: Miocene

**General comments:**

Bear Creek Mining Co. examined for the Bristol Bay Native Corp. in the late 1970's. Size 2.1x4.6 km.

**References:**

U.S.G.S. unpublished data, 1976 cited in MacKevett and Holloway, 1977; Bristol Bay Native Corp. unpublished data, 1979; Hollister, 1978; Angeloni and others, 1985

**Primary reference:** MacKevett and Holloway, 1977

Site: Clark Bay ARDF no. SB002  
Type: Occurrence  
Latitude: 55.79200 Quad-250 SB  
Longitude: 160.00000 Quad-63360 D6  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Approximate location on east side of Clark Bay from MacKevett and Holloway, 1977.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

MacKevett and Holloway (1977) reported altered zone associated with Tertiary pluton, however there is no known pluton in the vicinity on the basis of PM-AMRAP fieldwork.

Description of work:

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

No known pluton in vicinity on basis of PM-AMRAP mapping.

References:

U.S.G.S. unpublished data, 1976 cited in MacKevett and Holloway, 1977.

Primary reference: MacKevett and Holloway, 1977

Site: Dent Point                      ARDF no. SB003  
Type: Occurrence  
Latitude: 55.83300 Quad-250 SB  
Longitude: 159.90000 Quad-63360 D6  
Main commodity: Ag, Au, Cu              Status: Inactive  
Other commodities: As, Pb, Zn              Production? No

**Location description and accuracy:**

Approximate location near Dent Point from MacKevett and Holloway, 1977

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Porphyry Cu (17)

**Geologic description:**

Altered zone associated with Tertiary granitic pluton. Butherus and others (1979) report as stockwork of pyrite veins up to 1/4 inch wide with phyllic and propylitic alteration.

**Description of work:**

**Host rock:**

Age:

Associated igneous rock: Quartz diorite

Age: Tertiary

**General comments:**

Originally reported by Eakins (1970), reported as color anomaly by Hollister (1978), size .6x1.5 km.

**References:**

Eakins, 1970; U.S.G.S. unpublished data, 1976 cited in MacKevett and Holloway, 1977; Hollister, 1978, Butherus and others, 1979

Primary reference: Butherus and others, 1979

Site: unnamed ARDF no. SB004  
Type: Occurrence  
Latitude: 55.91700 Quad-250 SB  
Longitude: 159.93300 Quad-63360 D6  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

**Location description and accuracy:**

Approximate location 5 to 6 miles northwest of Lookout Hill from MacKevett and Holloway, 1977.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Altered zones in Tertiary rocks.

**Description of work:**

**Host rock:**

Age:

**Associated igneous rock:**

Age:

**General comments:**

**References:**

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977

Primary reference: MacKevett and Holloway, 1977

Site: Big River (Kupreanof) ARDF no. SB005  
Type: Occurrence  
Latitude: 55.97500 Quad-250 SB  
Longitude: 159.81700 Quad-63360 D6  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Approximate location 7 to 8 miles north of Lookout Hill from MacKevett and Holloway, 1977.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Altered zones in Tertiary rocks.

Description of work:

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

References:

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977

Primary reference: MacKevett and Holloway, 1977

Site: Osterback Creek                      ARDF no. SB006  
Type: Occurrence  
Latitude: 55.79200 Quad-250 SB  
Longitude: 159.56700 Quad-63360 D5  
Main commodity: Cu                      Status: Inactive  
Other commodities: Ag, Cd, Zn              Production? No

**Location description and accuracy:**

Approximate location near head of Osterback Creek from MacKevett and Holloway, 1977.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Porphyry Cu (17)

**Geologic description:**

MacKevett and Holloway (1977) and Hollister (1978) reported several altered zones in Tertiary rocks, in or near Tertiary granitic plutons.

**Description of work:**

PM-AMRAP samples 83AYb 590-594, 83AWs 78-81

**Host rock:**

Age:

**Associated igneous rock:**

Age:

**General comments:**

PM-AMRAP mapping located no granitic rocks or plutons in this vicinity; however rock sampling did indicate anomalous zinc and silver in a few samples. Hollister (1978) reports an area of color anomaly that has quartz diorite, stockwork mineralization, phyllic, propylitic, and argillic alteration.

**References:**

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977; Hollister, 1978

Primary reference: MacKevett and Holloway, 1977

Site: Kametolook                      ARDF no. SB007  
Type: Occurrence  
Latitude: 55.91700 Quad-250 SB  
Longitude: 159.05000 Quad-63360 D4  
Main commodity: Cu                      Status: Inactive  
Other commodities:                      Production? No

**Location description and accuracy:**

Approximate location near mouth of Kametolook River from MacKevett and Holloway, 1977.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

**Geologic description:**

Altered zone associated with Tertiary granitic rocks.

**Description of work:**

**Host rock: andesite**

Age: Oligocene

**Associated igneous rock: andesite**

Age: Oligocene

**General comments:**

PM-AMRAP mapping located no granitic rocks or plutons in this vicinity.

**References:**

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977

**Primary reference: MacKevett and Holloway, 1977**

Site: unnamed ARDF no. SB008  
Type: Occurrence  
Latitude: 55.95800 Quad-250 SB  
Longitude: 158.98300 Quad-63360 D3  
Main commodity: Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:

Approximate location 3 miles north of Anchor Bay from MacKevett and Holloway, 1977.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Altered zone associated with Tertiary granitic rocks.

Description of work:

Host rock:

Age:

Associated igneous rock:

Age:

General comments:

PM-AMRAP mapping located no granitic rocks or plutons in this vicinity.

References:

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977

Primary reference: MacKevett and Holloway, 1977

Site: Sosbee Bay ARDF no. SB009

Type: Occurrence

Latitude: 55.86700 Quad-250 SB

Longitude: 158.81700 Quad-63360 D3

Main commodity: Cu Status: Inactive

Other commodities: Production? No

**Location description and accuracy:**

Approximate location on Sosbee Bay, Mitrofanía Island from MacKevett and Holloway, 1977.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Porphyry Cu (17)

**Geologic description:**

Altered zone associated with Tertiary granitic rocks.

**Description of work:**

**Host rock:**

Age:

Associated igneous rock: Granodiorite

Age: late Miocene

**General comments:**

**References:**

USGS unpublished data, 1976 cited in MacKevett and Holloway, 1977

Primary reference: MacKevett and Holloway, 1977

Site: Unnamed ARDF no. SB010

Type: Occurrence

Latitude: 55.95000 Quad-250 SB

Longitude: 159.91700 Quad-63360 D6

Main commodity: Sulphur Status: Inactive

Other commodities: Production? No

**Location description and accuracy:**

Steaming fumaroles at elevation just over 3,000' at head of river draining into Ramsey Bay. PM-AMRAP did not relocate, T.P. Miller confirmed fumaroles do exist (oral comm., 1988).

Ore minerals: Sulphur

Gangue minerals: Pyrite, Opal

Deposit model:

**Geologic description:**

Deposit exposed on virtually inaccessible, nearly vertical slope. Steaming fumaroles at west end of deposit, which appears 1/4 to 1/3 of mile long, snow covered possible extensions. Float boulders contain sulphur veinlets 1/4" wide and pockets 1" in diameter. Boulders may average 5-10% sulphur.

**Description of work:**

Host rock:

Age:

Associated igneous rock: Holocene volcano

Age: Holocene

**General comments:**

**References:**

Maddren, 1919 p. 297-298; Eakins, 1970 p. 1-7

Primary reference: Eakins, 1970 p. 1-7

Site: SBRGX-37 ARDF no. SB011

Type: Occurrence

Latitude: 55.05200 Quad-250 SB

Longitude: 159.84200 Quad-63360 A6

Main commodity: Zn Status: Inactive

Other commodities: Production? No

Location description and accuracy:

Three sample locations on northeast side of Turner Island.

Ore minerals:

Gangue minerals:

Deposit model:

Sedimentary exhalative Zn-Pb (31a)

Geologic description:

Anomalous zinc in sandstone, siltstone, and shale of Shumagin Fm., a marine turbidite.

Description of work:

PM-AMRAP samples 84AJm 649-651

Host rock: Sandstone, siltstone, shale

Age: Cretaceous

Associated igneous rock:

Age:

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-38 ARDF no. SB012

Type: Occurrence

Latitude: 55.11600 Quad-250 SB

Longitude: 159.73100 Quad-63360 A6

Main commodity: Zn Status: Inactive

Other commodities: Production? No

**Location description and accuracy:**

West shoreline of Spectacle Island. Three sample localities.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Sedimentary exhalative Zn-Pb (31a)

**Geologic description:**

Anomalous zinc in sandstone, siltstone, and shale of Shumagin Fm., a marine turbidite.

**Description of work:**

PM-AMRAP samples 84ACe 97, 98, 100

**Host rock:** Sandstone, siltstone, shale

**Age:** Cretaceous

**Associated igneous rock:**

**Age:**

**General comments:**

**References:**

Angeloni and others, 1985

**Primary reference:** Angeloni and others, 1985

Site: SBRGX-39 ARDF no. SB013

Type: Occurrence

Latitude: 55.20900 Quad-250 SB

Longitude: 159.88100 Quad-63360 A6

Main commodity: Cu Status: Inactive

Other commodities: As Production? No

Location description and accuracy:

Northeast Bight, Nagai Island.

Ore minerals:

Gangue minerals:

Deposit model:

Polymetallic vein (22c)

Geologic description:

Sandstone, siltstone, and shale of Shumagin Fm., a marine turbidite, intruded by pyritized granodiorite sill.

Description of work:

PM-AMRAP samples 84ACe 102a-c

Host rock: Sandstone, siltstone, shale

Age: Cretaceous

Associated igneous rock: Granodiorite

Age: Tertiary(?)

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-40 ARDF no. SB014  
Type: Occurrence  
Latitude: 55.25600 Quad-250 SB  
Longitude: 159.91100 Quad-63360 B6  
Main commodity: Pb, Zn Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Northwest shore of Nagai Island.

Ore minerals:

Gangue minerals:

Deposit model:

Sedimentary exhalative Pb-Zn (31a)

Geologic description:

Siltstone with thin sandstone interbeds (Shumagin Fm.) near a probable(?) dike.

Description of work:

PM-AMRAP sample 84ADt 177

Host rock: Sandstone, siltstone, shale

Age: Cretaceous

Associated igneous rock:

Age:

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-41 ARDF no. SB015  
Type: Occurrence  
Latitude: 55.70400 Quad-250 SB  
Longitude: 159.54800 Quad-63360 C5  
Main commodity: Ag, Pb, Zn Status: Inactive  
Other commodities: As, Bi, Ba Production? No

Location description and accuracy:  
Eastern shore of Kupreanof Peninsula.

Ore minerals:

Gangue minerals: Quartz  
Deposit model:  
Epithermal Au vein (25b, 25d)

Geologic description:  
Mineralized vein in volcanic breccia.

Description of work:  
PM-AMRAP samples 83AWs 85-86

Host rock: Volcanic breccia  
Age: Eocene  
Associated igneous rock: Volcanic breccia  
Age: Eocene

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-42 ARDF no. SB016

Type: Occurrence

Latitude: 55.73300 Quad-250 SB

Longitude: 159.61400 Quad-63360 C5

Main commodity: Ag Status: Inactive

Other commodities: Production? No

Location description and accuracy:

Kupreanof Peninsula.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:

Porphyritic dacite.

Description of work:

PM-AMRAP sample 83ACe 52

Host rock: Dacite

Age: Miocene

Associated igneous rock: Dacite

Age: Miocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-43 ARDF no. SB017

Type: Occurrence

Latitude: 55.82200 Quad-250 SB

Longitude: 158.89500 Quad-63360 D3

Main commodity: Au, Ag, Pb, Zn Status: Inactive

Other commodities: As, Cd, Sb Production? No

Location description and accuracy:

West shore of Mitrofanina Island.

Ore minerals:

Gangue minerals: Quartz, Calcite, Pyrite

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Altered andesite(?) flows cut by numerous quartz-calcite veins 1 to 15 cm wide.

Near southern extension of late Miocene Devils batholith. Some veins are braided and contain sulfides.

Description of work:

PM-AMRAP samples 84AGe 17-20, 83AWs 63

Host rock: Andesite(?)

Age: Miocene(?)

Associated igneous rock: Andesite(?)

Age: Miocene(?)

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-44

ARDF no. SB018

Type: Occurrence

Latitude: 55.84700 Quad-250 SB

Longitude: 158.88300 Quad-63360 D3

Main commodity: Au, Ag, Pb, Zn Status: Inactive

Other commodities: As, Bi, Cd,Cu,Sb Production? No

Location description and accuracy:

West shore of Mitrofanía Island.

Ore minerals: Unidentified sulfides

Gangue minerals: Quartz, Calcite, Pyrite

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Fractured and altered silicified andesite(?) flows cut by numerous 1 to 6 cm wide quartz-calcite veins in fracture zones. Near southern extension of late Miocene Devils batholith. Some veinlets are as much as 80 to 90 percent sulfide.

Description of work:

PM-AMRAP samples 84AGe 10-16

Host rock: Andesite(?)

Age: Miocene(?)

Associated igneous rock: Andesite(?)

Age: Miocene(?)

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-45 ARDF no. SB019  
Type: Occurrence  
Latitude: 55.93700 Quad-250 SB  
Longitude: 158.98100 Quad-63360 D3  
Main commodity: Cu Status: Inactive  
Other commodities: As Production? No

Location description and accuracy:  
Red Bluff at Anchor Bay.

Ore minerals:

Gangue minerals: Quartz, pyrite, limonite, chlorite  
Deposit model:  
Epithermal Au vein (25b, 25d)

Geologic description:  
Fractured and altered (iron-stained) andesite(?) flows cut by vuggy quartz veins.

Description of work:  
PM-AMRAP sample 83AYb 509

Host rock: Andesite(?)  
Age: Tertiary  
Associated igneous rock: Andesite(?)  
Age: Tertiary

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-46 ARDF no. SB020  
Type: Occurrence  
Latitude: 55.99700 Quad-250 SB  
Longitude: 158.69700 Quad-63360 D3  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: Cd, Sb Production? No

Location description and accuracy:  
2 miles east of Fishrack Bay.

Ore minerals:

Gangue minerals:

Deposit model:  
Polymetallic vein (22c)

Geologic description:  
Hornfelsed mudstone near hypabyssal andesite or dacite plug and dikes.

Description of work:  
PM-AMRAP samples 84ACe 117, 122

Host rock: Mudstone  
Age: Eocene  
Associated igneous rock: Andesite, dacite  
Age: Tertiary

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-47 ARDF no. SB021

Type: Occurrence

Latitude: 55.88500 Quad-250 SB

Longitude: 159.13100 Quad-63360 D4

Main commodity: Sb Status: Inactive

Other commodities: As Production? No

Location description and accuracy:

Series of samples taken around shoreline of Shapka Island.

Ore minerals:

Gangue minerals: Quartz, Calcite

Deposit model:

Polymetallic vein (22c)

Geologic description:

Sandstone and siltstone cut by felsic and porphyritic hornblende andesite(?) dikes. Some felsic dikes are sulfide-bearing. Dikes are altered in places and there is some hornfelsing of sedimentary rocks. There is also a slightly-altered hornblende diorite with a shear zone and fractures filled with carbonate or quartz veins.

Description of work:

PM-AMRAP samples 84ACe 113-116

Host rock: Sandstone, siltstone

Age: Eocene

Associated igneous rock: Andesite(?), dacite(?)

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-48 ARDF no. SB022

Type: Occurrence

Latitude: 55.91500 Quad-250 SB

Longitude: 159.05600 Quad-63360 D4

Main commodity: Pb, Zn Status: Inactive

Other commodities: As, Sb Production? No

Location description and accuracy:

West side of Coal Cape peninsula.

Ore minerals:

Gangue minerals: Quartz, Calcite, Pyrite

Deposit model:

Polymetallic vein (22c)

Geologic description:

Area mainly composed of sandstone and shale of Tolstoi Fm. near contact with the Meshik Fm. volcanic rocks. Sedimentary rocks are cut by andesite or basalt dikes. Some dikes are fairly extensively pyritized and iron-stained. Sandstone locally contains disseminated pyrite and rarely aggregates of pyrite. Some small calcite veins in fracture zones which do not have visible sulfides.

Description of work:

PM-AMRAP samples 84AGe 21-26

Host rock: Sandstone, shale

Age: Eocene

Associated igneous rock: Andesite, basalt

Age: Oligocene

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-49                      ARDF no. SB023  
Type: Occurrence  
Latitude: 55.80800 Quad-250 SB  
Longitude: 159.52400 Quad-63360 D5  
Main commodity: Pb                      Status: Inactive  
Other commodities: As, Ba                      Production? No

Location description and accuracy:  
On Kupreanof Peninsula near Ivanof Bay.

Ore minerals:

Gangue minerals:

Deposit model:

Epithermal Au vein (25b, 25d)?

Geologic description:

Olivine basalt dike cutting tuff and altered, mineralized dacite.

Description of work:

PM-AMRAP sample 84ADt 181

Host rock: Dacite

Age: Tertiary

Associated igneous rock: Dacite, basalt

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-50 ARDF no. SB024  
Type: Occurrence  
Latitude: 55.82100 Quad-250 SB  
Longitude: 159.35300 Quad-63360 D5  
Main commodity: Cu, Zn Status: Inactive  
Other commodities: As Production? No

Location description and accuracy:

Egg Island. Three samples on shoreline at south end of island.

Ore minerals: Galena, Sphalerite

Gangue minerals: Pyrite, Quartz?

Deposit model:

Epithermal Au vein (25b, 25d)

Geologic description:

Sandstone, shale, and coal beds with andesite sills and a hypabyssal andesite plug. Calcite veins occur in intensely fractured zone within andesite. The veins are up to 4 inches wide with brecciated andesite inclusions. Recognized sulfides in the veins are sphalerite (0.25 in), galena (0.125 in) and pyrite. Fractures are probably localized along a thrust fault mapped through area.

Description of work:

PM-AMRAP samples 84AWs 170, 172-173

Host rock: Andesite

Age: Tertiary

Associated igneous rock: Andesite

Age: Tertiary

General comments:

References:

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-51 ARDF no. SB025  
Type: Occurrence  
Latitude: 55.85400 Quad-250 SB  
Longitude: 159.49800 Quad-63360 D5  
Main commodity: Au, Cu Status: Inactive  
Other commodities: Production? No

Location description and accuracy:  
Road (John) Island.

Ore minerals:

Gangue minerals:  
Deposit model:

Geologic description:  
Lahar

Description of work:  
PM-AMRAP sample 83AWs 84

Host rock: Lahar  
Age: Tertiary  
Associated igneous rock: Lahar  
Age: Tertiary

General comments:

References:  
Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Site: SBRGX-52                      ARDF no. SB026  
Type: Occurrence  
Latitude: 55.94200 Quad-250 SB  
Longitude: 159.33500 Quad-63360 D5  
Main commodity: Ag, Cu                      Status: Inactive  
Other commodities:                      Production? No

Location description and accuracy:  
About 1 mile east of Ivanof River.

Ore minerals:

Gangue minerals:

Deposit model:

Geologic description:  
Hornfelsed siltstone and sandstone.

Description of work:  
PM-AMRAP sample 86AGs 18c

Host rock: Siltstone, sandstone

Age: Jurassic

Associated igneous rock:

Age:

General comments:

References:

Wilson and others, 1987

Primary reference: Wilson and others, 1987

Site: SBRGX-53

ARDF no. SB027

Type: Occurrence

Latitude: 55.93600 Quad-250 SB

Longitude: 159.83000 Quad-63360 D6

Main commodity: Cu, Zn Status: Inactive

Other commodities: As, Ba, Sb, Sn Production? No

**Location description and accuracy:**

5.5 miles north of Ramsey Bay, Latitude and longitude is central of 5 samples spread over 3 mile distance. Description also includes 3 samples across Big River.

**Ore minerals:**

**Gangue minerals:**

**Deposit model:**

Polymetallic vein (22c)

**Geologic description:**

Various sample localities, generally in sedimentary rocks yielding primarily anomalous zinc and copper.

**Description of work:**

PM-AMRAP samples 84AWs 182, 84AGe 33, 84ADt 200, 84AJm 668-669, 84AYb 610, 84ACe 142-143

**Host rock: Sandstone, shale**

Age: Tertiary

**Associated igneous rock:**

Age:

**General comments:**

**References:**

Angeloni and others, 1985

Primary reference: Angeloni and others, 1985

Table 2. List of ARDF numbers, site names, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula.

ARDF no.	Site name	Site type
PM001	Port Moller	Occurrence
PM002	Balboa Bay	Occurrence
PM003	Herman Lode (Trench)	Prospect
PM004	Shumagin (Choumagin)	Mine
PM005	Sitka	Mine
PM006	Apollo	Mine
PM007	Nelson Lagoon	Occurrence
PM008	Moller Spit	Occurrence
PM009	Mary Lou (Sand Point)	Mine
PM010	Pyramid	Prospect
PM011	Brown Zinc (Suzy)	Prospect
PM012	North Popof Strait	Occurrence
PM013	Apollo Mountain	Occurrence
PM014	Delarof Harbor	Occurrence
PM015	Hardscratch	Occurrence
PM016	Hog	Prospect
PM017	unnamed	Occurrence
PM018	Andronica	Occurrence
PM019	Lumber Bay	Occurrence
PM020	Renshaw Point	Occurrence
PM021	San Diego	Prospect
PM022	Portage Valley	Occurrence
PM023	Marble Point	Occurrence
PM024	Unnamed	Occurrence
PM025	Mt. Hague	Occurrence
PM026	Zachary Bay breccia	Occurrence
PM027	Prays (P.V.)	Prospect
PM028	Pook	Prospect
PM029	Orange Mountain	Prospect
PM030	Junior	Prospect
PM031	Chance	Occurrence
PM032	Midway	Occurrence
PM033	Empire	Prospect
PM034	Beach vein	
PM035	Disney	Occurrence
PM036	Bloomer Peak	Occurrence
PM037	Aquila	Prospect
PM038	Normandy	Prospect
PM039	Daves vein	Occurrence
PM040	Rising Sun	Prospect
PM041	Olgen	Prospect
PM042	Thormac	Occurrence
PM043	Norms vein	Prospect
PM044	Scarp	Occurrence
PM045	Rhodo	Occurrence
PM046	West Lodes (Sowhat)	Prospect
PM047	Herron (E.C.)	Prospect

Table 2. List of ARDF numbers, site names, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula (continued).

ARDF no.	Site name	Site type
PM048	Zachary Bay	Prospect
PM049	Canoe Bay	Prospect
PM050	Heather Creek	Prospect
PM051	PMRGX-1	Occurrence
PM052	PMRGX-2	Occurrence
PM053	PMRGX-4	Occurrence
PM054	PMRGX-5	Occurrence
PM055	PMRGX-6	Occurrence
PM056	PMRGX-7	Occurrence
PM057	PMRGX-8	Occurrence
PM058	PMRGX-9	Occurrence
PM059	PMRGX-10	Occurrence
PM060	PMRGX-11	Occurrence
PM061	PMRGX-12	Occurrence
PM062	PMRGX-13	Occurrence
PM063	PMRGX-14	Occurrence
PM064	PMRGX-15	Occurrence
PM065	PMRGX-16	Occurrence
PM066	PMRGX-17	Occurrence
PM067	PMRGX-18	Occurrence
PM068	PMRGX-19	Occurrence
PM069	PMRGX-20	Occurrence
PM070	PMRGX-22	Occurrence
PM071	PMRGX-23	Occurrence
PM072	PMRGX-24	Occurrence
PM073	PMRGX-25	Occurrence
PM074	PMRGX-26	Occurrence
PM075	PMRGX-27	Occurrence
PM076	PMRGX-28 (Four Bear)	Occurrence
PM077	PMRGX-29	Occurrence
PM078	PMRGX-30	Occurrence
PM079	PMRGX-31	Occurrence
PM080	PMRGX-32	Occurrence
PM081	PMRGX-33	Occurrence
PM082	PMRGX-34	Occurrence
PM083	PMRGX-35	Occurrence
PM084	PMRGX-36	Occurrence
PM085	PMRGX-3 (Smoker)	Occurrence
PM086	Mud Bay	Occurrence
PM087	Sapsuk Lake	Occurrence
PM088	Mt. Dana	Occurrence
PM089	California	Prospect
SB001	Ivanof (Kawisgag)	Prospect
SB002	Clark Bay	Occurrence
SB003	Dent Point	Occurrence
SB004	unnamed	Occurrence

Table 2. List of ARDF numbers, site names, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula (continued).

ARDF no.	Site name	Site type
SB005	Big River	Occurrence
SB006	Osterback Creek	Occurrence
SB007	Kametolook	Occurrence
SB008	unnamed	Occurrence
SB009	Sosbee Bay	Occurrence
SB010	Unnamed	Occurrence
SB011	SBRGX-37	Occurrence
SB012	SBRGX-38	Occurrence
SB013	SBRGX-39	Occurrence
SB014	SBRGX-40	Occurrence
SB015	SBRGX-41	Occurrence
SB016	SBRGX-42	Occurrence
SB017	SBRGX-43	Occurrence
SB018	SBRGX-44	Occurrence
SB019	SBRGX-45	Occurrence
SB020	SBRGX-46	Occurrence
SB021	SBRGX-47	Occurrence
SB022	SBRGX-48	Occurrence
SB023	SBRGX-49	Occurrence
SB024	SBRGX-50	Occurrence
SB025	SBRGX-51	Occurrence
SB026	SBRGX-52	Occurrence
SB027	SBRGX-53	Occurrence

Table 3. List of site names, ARDF numbers, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula.

Site name	ARDF no.	Site type
Andronica	PM018	Occurrence
Apollo	PM006	Mine
Apollo Mountain	PM013	Occurrence
Aquila	PM037	Prospect
Balboa Bay	PM002	Occurrence
Beach vein	PM034	Prospect
Big River	SB005	Occurrence
Bloomer Peak	PM036	Occurrence
Brown Zinc (Suzy)	PM011	Prospect
California	PM089	Prospect
Canoe Bay	PM049	Prospect
CGRGX-54	CG001	Occurrence
Chance	PM031	Occurrence
Clark Bay	SB002	Occurrence
Daves vein	PM039	Occurrence
Delarof Harbor	PM014	Occurrence
Dent Point	SB003	Occurrence
Disney	PM035	Occurrence
Empire	PM033	Prospect
Hardscratch	PM015	Occurrence
Heather Creek	PM050	Prospect
Herman Lode (Trench)	PM003	Prospect
Herron (E.C.)	PM047	Prospect
Hog	PM016	Prospect
Ivanof (Kawisgag)	SB001	Prospect
Junior	PM030	Prospect
Kametolook	SB007	Occurrence
Littlejohn	CB002	Occurrence
Lumber Bay	PM019	Occurrence
Marble Point	PM023	Occurrence
Mary Lou (Sand Point)	PM009	Mine
Midway	PM032	Occurrence
Moller Spit	PM008	Occurrence
Mt. Dana	PM088	Occurrence
Mt. Hague	PM025	Occurrence
Mud Bay	PM086	Occurrence
Nelson Lagoon	PM007	Occurrence
Normandy	PM038	Prospect
Norms vein	PM043	Prospect
North Popof Strait	PM012	Occurrence
Olgen	PM041	Prospect
Orange Mountain	PM029	Prospect
Osterback Creek	SB006	Occurrence
PMRGX-1	PM051	Occurrence
PMRGX-2	PM052	Occurrence
PMRGX-3 (Smoker)	PM085	Occurrence
PMRGX-4	PM053	Occurrence

Table 3. List of site names, ARDF numbers, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula (continued).

Site name	ARDF no.	Site type
PMRGX-5	PM054	Occurrence
PMRGX-6	PM055	Occurrence
PMRGX-7	PM056	Occurrence
PMRGX-8	PM057	Occurrence
PMRGX-9	PM058	Occurrence
PMRGX-10	PM059	Occurrence
PMRGX-11	PM060	Occurrence
PMRGX-12	PM061	Occurrence
PMRGX-13	PM062	Occurrence
PMRGX-14	PM063	Occurrence
PMRGX-15	PM064	Occurrence
PMRGX-16	PM065	Occurrence
PMRGX-17	PM066	Occurrence
PMRGX-18	PM067	Occurrence
PMRGX-19	PM068	Occurrence
PMRGX-20	PM069	Occurrence
PMRGX-22	PM070	Occurrence
PMRGX-23	PM071	Occurrence
PMRGX-24	PM072	Occurrence
PMRGX-25	PM073	Occurrence
PMRGX-26	PM074	Occurrence
PMRGX-27	PM075	Occurrence
PMRGX-28 (Four Bear)	PM076	Occurrence
PMRGX-29	PM077	Occurrence
PMRGX-30	PM078	Occurrence
PMRGX-31	PM079	Occurrence
PMRGX-32	PM080	Occurrence
PMRGX-33	PM081	Occurrence
PMRGX-34	PM082	Occurrence
PMRGX-35	PM083	Occurrence
PMRGX-36	PM084	Occurrence
Pook	PM028	Prospect
Port Moller	PM001	Occurrence
Portage Valley	PM022	Occurrence
Prays (P.V.)	PM027	Prospect
Pyramid	PM010	Prospect
Renshaw Point	PM020	Occurrence
Rhodo	PM045	Occurrence
Rising Sun	PM040	Prospect
San Diego	PM021	Prospect
Sapsuk Lake	PM087	Occurrence
SBRGX-37	SB011	Occurrence
SBRGX-38	SB012	Occurrence
SBRGX-39	SB013	Occurrence
SBRGX-40	SB014	Occurrence
SBRGX-41	SB015	Occurrence

Table 3. List of site names, ARDF numbers, and site types for mines, prospects, and mineral occurrences in the Port Moller and Stepovak Bay quadrangle, Alaska Peninsula (continued).

Site name	ARDF no.	Site type
SBRGX-42	SB016	Occurrence
SBRGX-43	SB017	Occurrence
SBRGX-44	SB018	Occurrence
SBRGX-45	SB019	Occurrence
SBRGX-46	SB020	Occurrence
SBRGX-47	SB021	Occurrence
SBRGX-48	SB022	Occurrence
SBRGX-49	SB023	Occurrence
SBRGX-50	SB024	Occurrence
SBRGX-51	SB025	Occurrence
SBRGX-52	SB026	Occurrence
SBRGX-53	SB027	Occurrence
Scarp	PM044	Occurrence
Shumagin (Choumagin)	PM004	Mine
Sitka	PM005	Mine
Sosbee Bay	SB009	Occurrence
Thormac	PM042	Occurrence
unnamed	PM017	Occurrence
unnamed	PM024	Occurrence
unnamed	SB004	Occurrence
unnamed	SB008	Occurrence
unnamed	SB010	Occurrence
Walrus Peak	CB001	Prospect
West Lodes (Sowhat)	PM046	Prospect
Zachary Bay	PM048	Prospect
Zachary Bay breccia	PM026	Occurrence

## REFERENCES CITED

- Andersen, G.L., Butherus, D.L., Fankhauser, R.E., Pray, J.C., Lindberg, P.A., and Hoffman, B.L., 1980, Exploration and evaluation of lands leased from Aleut Native Corporation 1980: Unpublished Resource Associates of Alaska report available from The Aleut Corporation, 84 p., 3 appendices, 5 plates.
- Angeloni, L.M., Wilson, F.H., and Sutley, Stephen, 1985, Map and tables showing preliminary rock geochemical data, Port Moller, Stepovak Bay, and Simeonof Island quadrangles, Alaska: U.S. Geological Survey Open-file Report 85-470, about 70 p., scale 1:250,000.
- Armstrong, R.L., Harakal, J.E., and Hollister, V.F., 1976, Age determination of late Cenozoic porphyry copper deposits of the North American Cordillera: Institute of Mining and Metallurgical Transactions, Section B, v. 85, p. 239-244.
- Atwood, W.W., 1909, Mineral resources of southwestern Alaska: U.S. Geological Survey Bulletin 379, p. 108-152.
- Atwood, W.W., 1911, Geology and mineral resources of parts of the Alaska Peninsula: U.S. Geological Survey Bulletin 467, 137 p.
- Bain, H.F., 1946, Alaska's minerals as a basis for industry: U.S. Bureau of Mines Information Circular 7379, 89 p.
- Becker, G.F., 1898, Reconnaissance of the gold fields of southern Alaska, with some notes on general geology: U.S. Geological Survey 18th Annual Report, pt. 3, Economic Geology, p. 1-86.
- Berg, H.C., and Cobb, E.H., 1967, Metalliferous lode deposits of Alaska: U.S. Geological Survey Bulletin 1246, 254 p.
- Berryhill, R.V., 1963, Reconnaissance of beach sands, Bristol Bay, Alaska: U.S. Bureau of Mines Report of Investigations 6214, 48 p.
- Brooks, A.H., 1906, The mining industry in 1905: U.S. Geological Survey Bulletin 284, p. 4-9.
- 1908, The mining industry in 1907: U.S. Geological Survey Bulletin 345, p. 30-53.
- 1909, The mining industry in 1908: U.S. Geological Survey Bulletin 379, p. 21-62.
- 1910, The mining industry in 1909: U.S. Geological Survey Bulletin 442, p. 20-46.
- 1911, The mining industry in 1910: U.S. Geological Survey Bulletin 480, p. 21-42.
- 1912, The mining industry in 1911: U.S. Geological Survey Bulletin 520, p. 17-44.
- 1913, The mining industry in 1912: U.S. Geological Survey Bulletin 542, p. 18-51.
- 1915, The Alaskan mining industry in 1914: U.S. Geological Survey Bulletin 622, p. 15-68.

- 1918, The Alaskan mining industry in 1916: U.S. Geological Survey Bulletin 662, p. 11-62.
- 1921, The future of Alaska mining: U.S. Geological Survey Bulletin 714, p. 5-57.
- 1925, Alaska's mineral resources and production, 1923: U.S. Geological Survey Bulletin 773, p. 3-52.
- and Capps, S.R., 1924, The Alaska mining industry in 1922: U.S. Geological Survey Bulletin 755, p. 3-49.
- Brown, F.R., 1947, Apollo Mine (Unga Island): Alaska Territorial Department of Mines Miscellaneous Report MR 138-1, 33 p.
- Butherus, D.L., Gressitt, E.E., Pray, Jim, Corner, N.G., Lindberg, P.A., and Fankhauser, R.E., 1979, Exploration and evaluation of the Aleut Native Corporation Lands 1979: Unpublished Resource Associates of Alaska report prepared for Houston Oil and Minerals Corporation and available from The Aleut Corporation, 69 p., 1 appendix.
- Christie, J.S., 1974, Aleut-Quintana-Duval 1974 joint venture final report: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 24 p., 3 appendices, 2 maps in pocket.
- 1975a, Aleut-Quintana-Duval 1975 joint venture preliminary report: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 15 p.
- 1975b, Pyramid project Aleut-Quintana-Duval joint venture report on 1975 drill programme: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 17 p., 1 appendix, 5 maps and figures in pocket.
- 1976, Aleut-Quintana-Duval joint venture 1975 report on drill programmes at the Tarasof and San Diego prospects and additional exploration on Rootok Island and Unalaska Island: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 21 p., 1 appendix, 10 maps and figures in pocket.
- and Richards, G.G., 1974, Zachary Bay color anomaly and copper-gold prospect Unga island Alaska Port Moller B-2 quadrangle: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 9 p.
- Christie, J.S., and Wolfhard, M.R., 1977, Pyramid porphyry copper-molybdenum prospect, Alaska [abs.]: in Annual Meeting, Geological Association of Canada, 1977: Society of Economic Geologists Program with Abstracts, v. 2, p.12.
- Cobb, E.H., 1972, Metallic mineral resources map of the Port Moller quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-443, scale 1:250,000.
- Cox, D.P., and Singer, D.A., eds., 1986, Mineral deposit models: U.S. Geological Survey Bulletin 1693, 379 p.
- Dircks, N.J., and Richards, G.G., 1976, Final report on Zachary Bay project Unga island, Alaska Port Moller B-2 quadrangle: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 10 p., 2 tables.

- Eakins, G.R., 1970, Mineralization near Stepovak Bay, Alaska Peninsula, Alaska: Alaska Division of Mines and Geology Special Report 4, 12 p.
- Freeport Exploration Company, 1985, 1984 report of activities Canoe Bay joint venture: Unpublished Freeport Exploration Company report available from The Aleut Corporation, 25 p.
- Hollister, V.F., 1978, Porphyry copper deposits of Alaska: Geology of the porphyry copper deposits of the western hemisphere: American Institute of Mining Engineers, New York, p. 55-88.
- Kennedy, G.C., and Waldron, H.H., 1955, Geology of the Pavlof Volcano and vicinity, Alaska: U.S. Geological Survey Bulletin 1028-A, 19 p., scale 1:100,000.
- Koschmann, A.H., and Bergendahl, M.H., 1968, Principal gold-producing districts of the United States: U.S. Geological Survey Professional Paper 610, 283 p.
- MacKevett, E.M., Jr., and Holloway, C.D., 1977, Map showing metalliferous mineral deposits in the western part of southern Alaska: U.S. Geological Survey Open-file Report 77-169-F, 38 p., scale 1:1,000,000.
- MacKevett, E.M., Jr., Singer, D.A., and Holloway, C.D., 1978, Maps and tables describing metalliferous mineral resource potential of southern Alaska: U.S. Geological Survey Open-file Report 78-1-E, 45 p., scale 1:1,000,000, 2 sheets.
- Maddren, A.G., 1919, Sulphur on Unalaska and Akun Islands and near Stepovak Bay: U.S. Geological Survey Bulletin 692, p. 283-298.
- Martin, G.C., 1905, Gold deposits of the Shumagin Islands, in Brooks, A.H., Report on progress of investigations of mineral resources of Alaska in 1904: U.S. Geological Survey Bulletin 259 (Series A, Economic Geology 52), p. 100-101.
- Mining Journal, 1987, Shumagin results evaluation: Mining Journal, v. 309, no. 7940, p. 328.
- Peterson, R.J., Handverger, Paul, Rosenkrans, Danny, Bartels, Ed, and Woolston, David, 1983, Shumagin Islands precious metals exploration program Southwest Alaska: Unpublished UNC Teton Exploration Drilling, Inc. report to Aleut Corporation, available at The Aleut Corp., \_\_ p., \_\_ plates, 6 appendices.
- Peterson, R.J., Lemmers, Jim, Handverger, Paul, Gallagher, Jerry, Pilcher, Ray, East, Jennifer, MacLeod, Tony, and Bartels, Ed, 1982, Geology and precious metals potential of Unga, Popof and Korovin Islands Shumagin Group Aleutian Chain, Alaska: Unpublished UNC Teton Exploration Drilling, Inc. report to Aleut Corporation, available at The Aleut Corp., 127 p., 5 plates, 11 appendices.
- Smith, P.S., 1932, Mineral industry of Alaska in 1929: U.S. Geological Survey Bulletin 824, p. 29.
- 1933, Mineral industry of Alaska in 1930: U.S. Geological Survey Bulletin 836, p. 31.
- 1933, Mineral industry of Alaska in 1931: U.S. Geological Survey Bulletin 844, p. 24.

- 1941, Past lode-gold production from Alaska: U.S. Geological Survey Bulletin 917-C, p. 159-212.
- Trujillo, Richard, Andersen, Gary, MacLeod, Tony, Hendrick, Kathy, Farnham, Susan, and Peterson, Judd, 1981, Exploration and evaluation of the Unga-Popof-Korovin Islands portion of lands leased from Aleut Native Corporation: Unpublished Resource Associates of Alaska report prepared for and available from the Aleut Corporation, 71 p., appendices and plates.
- Trujillo, R.S., Tapper, C.J., Alvarez, T.J., Porterfield, Ben, and Toupe, W.M., 1982, Exploration and evaluation of precious metal potential of portions of Aleut Corporation lands, southwest Alaska 1982: Unpublished Resource Associates of Alaska report available from The Aleut Corporation, 91 p., 5 appendices, 4 plates.
- Trujillo, Rick, Farnham, Susan, Andersen, Gary, 1983, Exploration and evaluation of precious metal potential of The Aleut Corporation 14(h)8 lands, southwest Alaska 1983: Unpublished Resource Associates of Alaska report available from The Aleut Corporation, 33 p.
- U.S. Bureau of Mines, 1973, Alaska 1:250,000 scale quadrangle map overlays showing mineral deposit locations, principal minerals, and number and type of claims: U.S. Bureau of Mines Open-file Report OFR 20-73, 153 sheets.
- Webber, B.S., Moss, J.M., Rutledge, F.A., and Sanford, R.S., 1946, Reconnaissance examinations of parts of the Alaska Peninsula and Aleutian Islands southwestern Alaska: U.S. Bureau of Mines Report of Investigations, unpublished report, 40 p., 23 figures.
- Wedow, Helmuth, Jr., White, M.G., and Moxham, R.M., 1952, Interim report on an appraisal of the uranium possibilities of Alaska: U.S. Geological Survey Open-file Report 52-165, 124 p, 5 tables, 8 figures.
- Wilson, F.H., Case, J.E., and Detterman, R.L., 1985, Preliminary description of a Miocene zone of structural complexity in the Port Moller and Stepovak Bay quadrangles, Alaska, in Bartsch-Winkler, Susan, and Reed, K.M., eds., The United States Geological Survey in Alaska: Accomplishments in 1983: U.S. Geological Survey Circular 945, p. 54-56.
- Wilson, F.H., Gajewski, S.Z., and Angeloni, L.M., 1986, Geological literature of the Alaska Peninsula to 1985: U.S. Geological Survey Open-file Report 86-176, 113 p.
- Wilson, F.H., Harris, E.E., and Bailey, E.A., 1987, Preliminary analytical results and sample locality map for rock samples collected in 1985 and 1986, Port Moller and Stepovak Bay quadrangles, Alaska: U.S. Geological Survey Open-file Report 87-497, 44 p., 1 sheet, scale 1:250,000.
- Wolfhard, M.R., 1974, Pyramid prospect preliminary evaluation: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 9 p., 6 maps and figures in pocket.
- 1976, Final report - Pyramid project 1976 work: Unpublished Quintana Minerals Corporation report available from The Aleut Corporation, 2 p., 1 appendix.