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

by

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

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

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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 This compilation of descriptions was made from the published literature (Wilson and others, 1986) and unpublished reports and data of The Aleut Corporation, the U.S. Bureau of Mines, and the U.S. Geological Survey.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 85AA1 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:

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:

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:

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:

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:
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 TiO2, average was 44.0 lbs/cu.yd Fe and 11.44 lbs/cu.yd TiO2.

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

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 TiO₂, average was <20 lbs/cu.yd Fe and <5 lbs/cu.yd TiO₂. 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

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:

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:

Primary reference: Christie, 1975b
Site: Brown Zinc (Suzy)  
Type: Prospect  
Latitude: 55.29200 Quad-250 PM  
Longitude: 160.48300 Quad-63360 B2  
Main commodity: Au, Ag  
Other commodities: Cd, Pb, Sb, Zn  
Status: Inactive  
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:

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

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.

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

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:

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:

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:

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:

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:

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:

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 Dorenol 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 disconformity 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  
Other commodities: As, Cd, Sb, Zn  

Status: Inactive  
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:

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:

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) reported 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 Stantonovich Formation siltstone and sandstone. There may be a nearby warm spring.

References:

Primary reference: Wilson and others, 1987
Site: Unnamed ARDF no. PM024
Type: Occurrence
Latitude: 55.71700 Quad-250 PM
Longitude: 160.36700 Quad-63360 C2
Main commodity: Cu Status: Inactive
Other commodities: Production? No

Location description and accuracy:
Approximate location halfway between Dorenol Bay and Right Head of Port Moller from MacKevett and Holloway, 1977

Ore minerals:

Gangue minerals:
Deposit model:

Geologic description:
Altered zone in Tertiary rocks

Description of work:

Host rock:
Age:
Associated igneous rock:
Age:

General comments:

References:

Primary reference: MacKevett and Holloway, 1977
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:

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 no 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: Pook ARDF no. PM028
Type: Prospect
Latitude: 55.19800 Quad-250 PM
Longitude: 160.62200 Quad-63360 A2
Main commodity: Au, Ag Status: Inactive
Other commodities: Production? No

Location description and accuracy:
   North of Apollo Mountain, halfway between Shumagin and Amethyst prospects.

Ore minerals:   Gold

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

Geologic description:
   Sheared and crushed quartz vein system with width varying from 10' to 70' and
   having 2000' strike length. Locally same structure as Shumagin and Amethyst. No
   substantial base metal sulfides other than minor flecks of chalcopyrite. Analyses
   show up to 2.8 ppm Au, 60 ppm Ag, 1.5 ppm Hg.

Description of work:
   Single drillhole to 365', poor recovery due to intense shearing and crushing.
   Magnetic and electromagnetic surveys. Analyses of 37 rock and 170 soil samples.
   Recommended 2 additional drill holes.

Host rock: Basalt(?), andesite
   Age: Eocene
Associated igneous rock:
   Age:

General comments:
   See also Amethyst (PM037), Shumagin (PM004)

References:
   Trujillo and others, 1981

Primary reference: Trujillo and others, 1981
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

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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:

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:

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:

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
Type: Prospect
ARDF no. PM048
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: Chalcopryite, 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
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 dolomite 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: PMRX-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-9 ARDF no. PM058

Type: Occurrence
Latitude: 55.39400 Quad-250 PM
Longitude: 160.15000 Quad-63360 B1
Main commodity: Au, Cu Status: Inactive
Other commodities: As, Pb Production? No

Location description and accuracy:
Southeast part of Korovin Island, near Cape Devine. Latitude and longitude from one of 4 samples.

Ore minerals:

Gangue minerals:
Deposit model:
Epithermal Au vein (25b, 25d); polymetallic vein (22c)

Geologic description:
Altered pyritized biotite(?) dacite(?) intruding sedimentary rocks of Tolstoi Fm. Also associated andesite sills and 3 inch wide quartz veins.

Description of work:
PM-AMRAP samples 82ASh 6, 82AWs 7-7a, 82AYb 1a-1c, 82ADt 43.

Host rock: Andesite and sandstone
Age: Eocene
Associated igneous rock: Dacite and andesite
Age: Tertiary

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  Cl
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 sulfurides 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  
Type: Occurrence  
ARDF no. PM068  
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  
Type: Occurrence  
ARDF no. PM071  
Latitude: 55.55300 Quad-250 PM  
Longitude: 160.74900 Quad-63360 C3  
Main commodity: Pb  
Other commodities: As, Ba  
Status: Inactive  
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: 55.644° Quad-250 PM
Longitude: 160.855° 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 85AAl 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  
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 Dorenol 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:

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: Chalcocytite
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:

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 samples83APk 7-12, 83AA1 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:

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:

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:

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:

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, Mitrofania 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:

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 Nagal 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 
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 Mitrofania 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 Mitrofania 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 no 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.

<table>
<thead>
<tr>
<th>ADRF no.</th>
<th>Site name</th>
<th>Site type</th>
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<tbody>
<tr>
<td>PM001</td>
<td>Port Moller</td>
<td>Occurrence</td>
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<tr>
<td>PM002</td>
<td>Balboa Bay</td>
<td>Occurrence</td>
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<tr>
<td>PM003</td>
<td>Herman Lode (Trench)</td>
<td>Prospect</td>
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<tr>
<td>PM004</td>
<td>Shumagin (Choumagin)</td>
<td>Mine</td>
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<td>PM005</td>
<td>Sitka</td>
<td>Mine</td>
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<td>PM006</td>
<td>Apollo</td>
<td>Mine</td>
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<td>PM007</td>
<td>Nelson Lagoon</td>
<td>Occurrence</td>
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<td>PM008</td>
<td>Moller Spit</td>
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<td>PM009</td>
<td>Mary Lou (Sand Point)</td>
<td>Mine</td>
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<td>PM010</td>
<td>Pyramid</td>
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<td>PM011</td>
<td>Brown Zinc (Suzy)</td>
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<tr>
<td>PM012</td>
<td>North Popof Strait</td>
<td>Occurrence</td>
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<td>PM013</td>
<td>Apollo Mountain</td>
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<td>Delarof Harbor</td>
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<td>PM015</td>
<td>Hardscratch</td>
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<td>PM020</td>
<td>Renshaw Point</td>
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<td>PM021</td>
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<td>PM037</td>
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<td>PM038</td>
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<td>PM039</td>
<td>Daves vein</td>
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<td>PM040</td>
<td>Rising Sun</td>
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<td>PM041</td>
<td>Olgen</td>
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<td>PM042</td>
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<td>PM043</td>
<td>Norms vein</td>
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<td>PM045</td>
<td>Rhodo</td>
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<td>PM046</td>
<td>West Lodes (Sowhat)</td>
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<td>PM047</td>
<td>Herron (E.C.)</td>
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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).

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<td>PM085</td>
<td>PMRGX-3 (Smoker)</td>
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<td>Mud Bay</td>
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<td>Mt. Dana</td>
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<td>PM089</td>
<td>California</td>
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<td>SB001</td>
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<td>SB004</td>
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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).

<table>
<thead>
<tr>
<th>ADRF no.</th>
<th>Site name</th>
<th>Site type</th>
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<tbody>
<tr>
<td>SB005</td>
<td>Big River</td>
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<td>SB006</td>
<td>Osterback Creek</td>
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<td>SB007</td>
<td>Kametolook</td>
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<td>SB008</td>
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<td>SB009</td>
<td>Sosbee Bay</td>
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<td>SB010</td>
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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.

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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).

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</table>
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).

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REFERENCES CITED


