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TABLE DESCRIBING METALLIFEROUS AND SELECTED NONMETALLIFEROUS
MINERAL DEPOSITS IN THE KETCHIKAN AND PRINCE RUPERT QUADRANGLES, ALASKA



TO ACCOMPANY
OPEN-FILE REPORT 78-73B

This report is preliminary and
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Menlo Park, California

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TABLE DESCRIBING METALLIFEROUS AND SELECTED
NONMETALLIFEROUS MINERAL DEPOSITS IN THE
KETCHIKAN AND PRINCE RUPERT QUADRANGLES, ALASKA

(To accompany open-file map 78-73B)
By R. L. Elliott, H. C. Berg, and Susan Karl

EXPLANATORY STATEMENT

This table briefly and objectively describes known deposits and principal occurrences of metallic and some nonmetallic mineral commodities in the Ketchikan and Prince Rupert quadrangles of southeastern Alaska. The table and accompanying map are part of a multidisciplinary mineral resource assessment of the quadrangles being carried out under the U.S. Geological Survey's Alaska Mineral Resource Assessment Program (AMRAP). This report is one component of the assessment; its purpose is to provide a background of current and historic mineral deposit data to be integrated with other geological, geochemical, and geophysical data for the resource assessment.

This report is based on an extensive literature search, consultations with colleagues, and the firsthand knowledge of the authors. Likewise, U.S. Bureau of Mines maps depicting locations of mining claims were used extensively. The AMRAP and Bureau data were updated and augmented where possible with basic information gleaned from other sources. Even so, large disparities exist in the data base ranging from deposits that are well documented by modern studies to others that are only vaguely mentioned in the old literature.

This report focuses on locating and briefly describing the known deposits in the study area. Another report (in preparation) provides an assessment of its mineral endowment and potential mineral resources. However, some information regarding the significance of the deposits can be inferred from the table, particularly under the heading "Brief Description".

EXPLANATION

TABLE HEADINGS

MAP NO. AND NAME(S) (if known)

Map no. refers to a specific deposit on the mineral deposits map and serves to link the map and table. Name(s) of mines or prospects are derived from published sources or from general usage. In some cases more than one mine or prospect are grouped under the same map number. Names in parentheses are duplicate and generally less valid names for the mine or prospect preceding the parentheses.

LOCATION

Location refers to the standard township and range land designations relevant to specific parallels and meridians on the U.S. Geological Survey quadrangle map used as a base for this report.

CATEGORY

The terms mine, prospect, and occurrence are used as follows:

Mine -- a mineral deposit with recorded production. In some cases, ore may have been mined, but not necessarily shipped. Claims may or may not be active.

Prospect -- a deposit that has been staked and, in most cases, has been scantily explored but lacks evidence of production. Claims may or may not be active. Probably some of the gold deposits that are listed as prospects have had at least meager production, but because of lack of substantive evidence they are classified as prospects.

Occurrence -- a deposit that, as far as known, is unclaimed, and is mainly known from recent U.S. Geological Survey, Alaska Division of Geological and Geophysical Surveys, or Bureau of Mines field investigations. Numerous, apparently insignificant, minor occurrences are not included in the map and table, nor are unevaluated or unchecked occurrences of apparently anomalous metals in rock geochemical samples (Koch and Elliott, 1978a, b)

M -- mine

P -- prospect

O -- occurrence

RESOURCE(S)

Indicates mineral commodity or commodities that are known or reported at each locality. Question marks are used where presence of commodity is inferred from indirect evidence or based on unverified reports. Commodities are listed in alphabetical order, without implying abundance or commercial value. Metalliferous commodities are shown by standard chemical symbols; nonmetalliferous commodities are abbreviated by their capitalized first letters.

FORM

Denotes the physical aspect of a deposit.

BRIEF DESCRIPTION

Provides brief descriptions of the geology and mineralogy of the deposits and, in some instances, production and historical data. Reported assay values or metal prices are quoted from reports published mainly before World War II and have not been converted to constant or current dollars.

Many occurrences or prospects are known only from U.S. Bureau of Mines claim maps (1974, 1977); information on these deposits generally is limited to reported commodities and category of deposit. At three such localities (7, 9, 45) only the category of deposit is known.

PRINCIPAL REFERENCES

Cites sources for information used in the table and map. A list of references cited follows the table.

ABBREVIATIONS USED

ppm -- parts per million
ss -- semiquantitative spectrographic analysis
standard chemical symbols, for example, Cu - copper, Fe - iron
m -- meter
cm -- centimeter

Minerals

aspy -- arsenopyrite	mag -- magnetite
ba -- barite	ml -- malachite
bn -- bornite	mo -- molybdenite
calc -- calcite	ms -- marcasite
cc -- chalcocite	po -- pyrrhotite
cr -- chromite	py -- pyrite
cp -- chalcopyrite	qz -- quartz
cv -- covellite	sb -- stibnite
fb -- freibergite	sc -- scheelite
gn -- galena	sl -- sphalerite
hem -- hematite	td -- tetrahedrite
	tt -- tetradymite

MINES, PROSPECTS, AND MINERAL OCCURRENCES IN THE KETCHIKAN AND PRINCE RUPERT QUADRANGLES, ALASKA

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
1	Howard	T. 68S., R. 99E.	Ba, Pb, Zn	Vein	P	Fissured zone with many qz stringers; in granodiorite; locally mineralized with py, gn, sl and ba; open cuts and strip-ping	Buddington, 1929, p. 76
2	Last Shot	T. 68S., R. 99E.	Ag, Au, Cu, Pb, W, Zn	Vein	P	Qz vein in Texas Creek granodiorite ranges from 5 cm to 4 m thick; shoot of almost solid sulfide up to 50 cm thick persists for 10 m or more; gn, py, sl, po, cp, td, and fb; minor sc also reported; 65 cm channel sample across sulfides shows Au, 0.08 oz per ton; Ag, 11.3 oz per ton; 6.2% Pb, and 4.85% Cu; pits, opencuts, and 8 m adit	Buddington, 1929, p. 75-76; Byers and Sainsbury, 1956, p. 136
3	Fish Creek	T. 68S., R. 99E.	Ag, Au, Cu, Pb, W, Zn	Vein	M	Immediately north of Mountain View property, and partly in Bradford Canal quadrangle; qz veins up to 1 m wide are mainly in Texas Creek Granodiorite near contact with rocks of Hazelton(?) Group; gn, sl, py, td, cp, and minor sc occur in these veins; lenticular bodies of po with minor cp, py, and asp also present locally, but values from these bodies are low; assays of ore from Starboard and Olympia claims report 103 to 706 oz per ton Ag, 17 to 39% Pb, trace to 7% Cu, and less than 1 oz per ton Au; several pits, adits, and drifts	Buddington, 1929, p. 68-71; Byers and Sainsbury, 1956, p. 138
4	Six Mile	T. 68S., R. 99E.	Ag, Au, Cu, Pb, Zn	Vein	P	Narrow stringers and veins of qz in Texas Creek granodiorite, locally very rich in visible free gold; py, gn, and minor cp and sl; two adits and surface workings	Buddington, 1929, p. 76-77
5	Bishop	T. 68S., R. 99E.	Ag, Au, Cu, Pb	Vein	P	Qz vein from .5 to 2 m thick in Texas Creek granodiorite; po, py, minor cp and gn; Au and Ag content reported low	Buddington, 1929, p. 67
6	Mountain View	T. 68S., R. 99E.	Ag, Au, Cu, Mo, Pb, W, Zn	Vein	M	Qz veins in both Texas Creek granodiorite and Hazelton group metasedimentary and metavolcanic rocks; py, po, sc, cp, gn, sl, minor td and fb, and qz and ba gangue; Au and Ag also reported; ore from the principal vein (Fish Creek No. 2 or "Gray Copper" vein) averages 1.23% WO ₃ and 0.1 and 6.4 oz per ton Au and Ag across an average width of 57 cm; more than 1100 m of underground workings but the only ore shipments were for mill tests	Buddington, 1929, p. 63-67; West and Benson, 1955, p. 30-32, 34-44; Byers and Sainsbury, 1956, p. 123, 137-138
7	Ambrose	T. 68S., R. 99E.	Unknown; possibly same as at locality no. 8	Vein?	P	--	West and Benson, 1955, p. 33, 44
8	Lucky Boy Extension	T. 68S., R. 99E.	Cu, Pb, W, Zn	Vein	P	Fissured zone 60 to 90 cm thick with qz stringers totaling 15 to 30 cm in thickness; py, gn, and sl locally with minor po and cp; crosscut adit and drift total 30 m	Buddington, 1929, p. 67

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL INVESTIGATORS
9	Victoria	T.68S.,R.99E.	Unknown; possibly same as at locality no. 8	Vein?	P	Sparse mineralization; few short adits	Suddington, 1929, p. 67-68
10	Boundary Line	T.69S.,R.100E.	Au	--	P	--	U.S. Bur. Mines, 1977
11	J and L	T.69S.,R.99E.	Cu,Mo?	--	P	--	U.S. Bur. Mines, 1977
12	Alpine	T.70S.,R.99E.	Fe	Placer	P	Placer claim	U.S. Bur. Mines, 1977
13	Ferro	T.70S.,R.99E.	Fe	Placer	P	Placer claims	U.S. Bur. Mines, 1977
14	Commonwealth	T.70S.,R.99E.	Au,Cu, Mo,Zn	Vein(?), disseminated(?)	P	Qz(?) veins in a narrow band of quartzite, schist and marble in qz monzonite; mo, si and trace of cp are sparsely distributed in veins and country rock with no evidence of significant concentrations; two short adits	Suddington, 1929, p. 111-112
15	--	T.70S.,R.98E.	Cu?	Disseminated(?)	O	Trace of cp with py and po in rusty-weathering zone of paragneiss	Berg and others, 1977, p. 132
16	--	T.68S.,R.94E.	Cu,Mo	Vein	O	Small qz veins in a zone of iron-stained paragneiss; trace mo and cp; 910 ppm Mo from vein 4,700 ppm from float boulder	Berg and others, 1977, p. 123-124
17	--	T.68S.,R.94E.	Cu?	Disseminated(?)	O	Trace cp noted in broad rusty-weathering paragneiss zone; low values of Cu, Pb, Zn, Mo, and Ag	Berg and others, 1977, p. 124-126
18	--	T.69S.,R.96E.	Cu	Disseminated(?)	O	Trace cp and po noted in rusty-weathering zone in paragneiss	Berg and others, 1977, p. 126-127
19	--	T.69S.,R.96E.	Cu?,Mo?	Disseminated(?)	O	Sparse cp noted with py in rusty-weathering zone in pelitic schist; one sample reported 150 ppm Mo	Berg and others, 1977, p. 126, 128
20	--	T.69S.,R.96E.	Cu?	Disseminated(?)	O	Minor cp in zone of rusty-weathering pyritic paragneiss; low values of Cu, Pb, Zn, Ag, and Mo reported	Berg and others, 1977, p. 129-132
21	Gnat	T.70S.,R.95E.	Cu,Mo,Pb	Vein	P	Qz fissure vein 2.5 m thick in gneissic qz diorite; cp, mo, gn, and py relatively abundant 0.0 to 0.5 m below hanging wall; re-values to 1,500 ppm Pb, 1,400 ppm Cu, and 310 ppm Mo	Suddington, 1929, p. 120; Berg and others, 1977, p. 121-123
22	Alamo	T.70S.,R.96E.	Ag,Au,Cu,Zn	Disseminated	P	Several shallow opencuts and trenches, drilling; sulfide-bearing zone 25 m wide in paragneiss near foliated granodiorite; cp, py, and po in seams and disseminated veins; possible Cu content of 0.2 to 0.7% in a large body of sulfide-bearing paragneiss	Berg and others, 1977, p. 116-120
23	--	T.71S.,R.95E.	Cu,Mo	Vein	O	Minor amount cp and mo in 55 cm wide qz vein at contact of paragneiss and qz diorite	Berg and others, 1977, p. 134-135

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
24	Marble Copper	T. 71S., R. 95E.	Ag, Au, Cu	Disseminated	P	Mt and traces of cp in a marble-skarn zone in paragneiss near contact with foliated granodiorite; a 55-cm-long channel sample from shallow cut assayed 4,000 ppm Cu, 30 ppm Ag, and 3.5 ppm Au	Berg and others, 1977, p. 120-121
25	--	T. 71S., R. 95E.	Cu	Disseminated?	O	Cp noted with py in paragneiss; chip sample across 13 m of gneiss assayed 1,000 ppm Cu	Berg and others, 1977, p. 135
26	(Burroughs Bay)	T. 68S., R. 91E.	Mo	Vein, coating, disseminated	P	Porphyry Mo deposit in granites and qz porphyry stock; mo-qz veins and mo fracture coatings; vein and disseminated py; no data on tonnage and grade	U.S. Bur. Mines, 1977
27	Ekblad	T. 71S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
28	Gold Standard	T. 72S., R. 87E.	Au	Vein	M	Largest Au production, by far, in Helm Bay area with intermittent operations from 1898 to at least 1940 that probably produced a few thousand oz of Au; auriferous qz veins with py; principal vein 15 cm to 2 m thick exposed over 300 m along strike; 30 m shaft with drifts, other short tunnels and shafts	Brooks, 1902, p. 59-60; Wright and Wright, 1908, p. 153-155; Buivers, 1967, p. 6-8
29	Gold Mountain	T. 72S., R. 87E.	Au, Cu, Pb	Vein	M	Qz veins and mineralized zones with qz stringers in greenschist; py, cp, gm, and Au; some Au production reported; surface work and over 200 m underground workings	Brooks, 1902, p. 58-59; Wright and Wright, 1908, p. 156
30	Novacney	T. 72S., R. 88E.	Au	Vein	P	Narrow qz veins in schist	U.S. Bur. Mines, 1977
31	Rainy Day	T. 72S., R. 88E.	Au, Pb, Zn	Vein	P	One-m-thick qz vein in a granite-porphry dike 200 to 300 m wide; small amounts py, st, gm, and Au; open-cut and 33 m tunnel	Brooks, 1902, p. 58; Wright and Wright, 1908, p. 156
32	Kingston	T. 72S., R. 88E.	Au	Vein	P	Qz veins in 2- to 10-m-wide mineralized zone in chloritic schist; assays of \$2.50 to \$600 Au/ton reported	Brooks, 1902, p. 58
33	Keystone	T. 72S., R. 87E.	Ag, Au	Vein, disseminated	M	Stockwork of many small qz veins in a mineralized belt of greenschist 6 to 12 m thick; abundant py and generally low values in Au and Ag; crosscut tunnel, shaft and more than 200 m of underground workings	Brooks, 1902, p. 57-58; Wright and Wright, 1908, p. 157
34	Old Glory	T. 72S., R. 88E.	Au	Vein, disseminated(?)	M	Qz vein in greenschist and some argillite; minor sulfides and free Au in vein, sulfides locally disseminated in adjacent country rock; adits and drifts total several tens of meters	Wright and Wright, 1908, p. 157-158; Smith, 1914, p. 85-86
35	Last Chance	T. 72S., R. 88E.	Au, Cu	Vein	P	Qz vein of irregular width in belt of mineralized chloritic schist in a shear zone; minor cp and bn, average Au values low; short drift	Brooks, 1902, p. 57; Wright and Wright, 1908, p. 157
36	Mary T.	T. 72S., R. 88E.	Au, Cu	Vein, disseminated(?)	P	Belt of mineralized chlorite or sericite schist with qz blebs; ore consists of py, cp, secondary Cu minerals, and Au; low values reported; surface pit	Brooks, 1902, p. 57; Wright and Wright, 1908, p. 157

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
37	U.S.	T. 72S., R. 88E.	Au	Vein	P	Qz vein in chlorite schist carries py and Au; low values; explored by surface cuts and short prospect tunnels	Brooks, 1902, p. 57; Wright and Wright, 1908, p. 157
38	Little Maumee	T. 72S., R. 88E.	Au, Cu	Vein	P	Small qz vein in porphyritic diorite; py, cp and Au reported	Brooks, 1902, p. 58
39	Blue Bucket	T. 72S., R. 88E.	Au	Vein	P	Qz vein in chlorite and sericite schists; py, low Au values; short prospecting tunnel	Wright and Wright, 1908, p. 156-157
40	(Camaano Point)	T. 73S., R. 88E.	Sb	Vein, massive	P	Veinlets and irregular masses of sb in brecciated and partly dolomitized and silicified limestone; explored by two shallow shafts and several opencuts. SS analyses (Koch and Elliott, 1978a) of samples of py-rich qz- and carbonate-veined phyllite and marble collected on coast about 1.8 km NNE of Camaano Pt. (USGS field locality 758g125) contained up to 2 ppm Ag, >1% As, 1,000 ppm Sb, and 7.5 ppm Au	Sainsbury, 1957a
41	Lucky Four	T. 73S., R. 90E.	Cu, U?	--	P	Fe- and Cu-stained, hydrothermally altered schist containing disseminated py, cp, and possibly other sulfide minerals. Country rocks include metamorphosed sedimentary, volcanic, and plutonic rocks of Mesozoic or Paleozoic age. SS analyses (Koch and Elliott, 1978a) of mineralized rock samples contain up to 10 ppm Ag, 500 ppm Co, 2.0% Cu, and 30 ppm Mo	U.S. Bur. Mines, 1977; U.S. Geol. Survey field localities 75RC34, 75RK35, 76RX176
42	Golden Bear	T. 74S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
43	Conkle	T. 73S., R. 90E.	Cu, Fe	--	P	--	U.S. Bur. Mines, 1977
44	Prince	T. 73S., R. 90E.	Fe	--	P	--	U.S. Bur. Mines, 1977
45	Crystal	T. 73S., R. 91E.	Unknown	--	P	--	U.S. Bur. Mines, 1977
46	J.C.	T. 74S., R. 91E.	As, Au, Fe	--	P	--	U.S. Bur. Mines, 1977
47	--	T. 73S., R. 92E.	Cu, Pb?	--	P	--	U.S. Bur. Mines, 1977
48	Lou Jo	T. 73S., R. 92E.	Ag, Au	--	P	--	U.S. Bur. Mines, 1977
49	--	T. 74S., R. 92E.	Cu, Pb, Zn	--	P	--	U.S. Bur. Mines, 1977
50	Perk(?)	T. 72S., R. 93E.	Cu, Pb, Zn	--	P	--	U.S. Bur. Mines, 1977
50.1	(Swan Lake)	T. 72S., R. 92E.	Mo	Disseminated	O	Trace of very fine-grained mo disseminated in rusty-weathering 15 m thick felsic sill(?) that intrudes paragneiss. SS analysis (Koch and Elliott, 1978a) of sample shows 150 ppm Mo	U.S. Geol. Survey field locality 77Bg129
51	(Ella Pt.)	T. 73S., R. 95E.	Zn	--	P	Py and sl replace(?) sericitic schist	Berg and Cobb, 1967, p. 182
52	White Knight	T. 75S., R. 89E.	Au?, Cu	Vein(?)	P	Small masses of cp associated with py and po in greenstone; little development	Brooks, 1902, p. 74(?); Wright and Wright, 1908, p. 140

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
52.1	--	T. 76S., R. 88E.	Ag, Cu	Small pods and lenses of sulfides in fault breccia	P	Fe- and Cu-stained brecciated metabasalt(?) containing qx, hem, cp, and py. Lode is approx 3 m wide. In 1970 workings consisted of water-filled adit of unknown length. SS analysis (Koch and Elliott, 1978a) of a sample of mineralized breccia showed 1.5 ppm Ag and 2% Cu	U.S. Geol. Survey field locality 708g306
52.2	--	T. 77S., R. 88E.	Ag, Au, Ba, Cu, Pb, Zn	Dissemination and small masses of sulfide(?) minerals in fault breccia and adjacent country rocks	P	Meter-wide fault (breccia) zone in dike-like mafic? igneous rock structurally mixed with sedimentary and other igneous country rocks. Breccia weathers orange or red and contains qz, carbonate, ba, and small amounts of sulfide(?) minerals. SS analyses (Koch and Elliott, 1978a) of samples of breccia and country rock showed up to 70 ppm Ag, 0.15 ppm Au, >0.5% Ba, 700 ppm Cu, 1.5% Pb, >1.0% Zn, and possibly anomalous amounts of other metals. In 1969 workings consisted of approx 7 m long adit	U.S. Geol. Survey field locality 698g624
53	Six Point	T. 75S., R. 89E.	Au?, Cu	Vein	P	Thin qz vein with py and some cp, follows contact of altered diabase dike and slaty limestone; shaft and drift	Brooks, 1902, p. 73-74; Wright and Wright, 1908, p. 140
54	Easter	T. 75S., R. 89E.	Au	Vein	P	Au- and py-bearing qz veins with trace asp in slate and green-schist; owners reported values of \$3 to \$400 per ton; small pit	Brooks, 1902, p. 62-63; Berg and Cobb, 1967, p. 179
55	Typhoon	T. 74S., R. 89E.	Au?	Vein	P	Py-bearing qz vein 20 cm thick in slate	Brooks, 1902, p. 61
56	Tongass	T. 74S., R. 90E.	Au?	Vein	P	Py-bearing qz vein 30 cm wide in slate	Brooks, 1902, p. 61
57	Green Hornet	T. 75S., R. 90E.	U?	--	P	--	U.S. Bur. Mines, 1977
58	Ken Pond	T. 74S., R. 90E.	Ag	--	P	--	U.S. Bur. Mines, 1977
59	Beach	T. 75S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
60	Little Sue	T. 75S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
61	White Cliff	T. 75S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
62	Hoadley	T. 75S., R. 90E.	Au, Bi	Vein	P	Two sets of qz veins from 10 to 60 cm thick in gabbro(?) intrusive in black slate; older set contains mainly py and po, younger set characterized by asp, free Au, and trace of tt; opencuts and short drift tunnels	Wright and Wright, 1908, p. 151
63	Wildcat	T. 75S., R. 90E.	Au, Bi?, Cu, Sb?	Vein	P	Veins in diorite or gabbro intrusive in black slate; main vein 30 to 40 cm thick traced over 300 m; Au and py with minor cp; wall rock mineralized locally; explored by opencuts, short tunnels, and shafts; \$20 to \$30 per ton reported	Wright and Wright, 1908, p. 151-152
64	Bear Mountain/ Malaspina	T. 75S., R. 91E.	Au, Cu	--	P	--	U.S. Bur. Mines, 1977

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
65	Laskawonda	T. 75S., R. 91E.	Ag, Au, Cu	Vein, disseminated?	P	Slightly mineralized band of phyllite and schist cut by few small qz veinlets; py and cp occur in schist and veinlets, and Au and Ag were reported; two shafts and surface work	Wright and Wright, 1908, p. 152; Bufvers, 1967, p. 28
66	Venetta	T. 75S., R. 91E.	Au	--	P	--	U.S. Bur. Mines, 1977
67	Clairvoyance	T. 76S., R. 90E.	Au	--	P	--	U.S. Bur. Mines, 1977
68	Goldstone	T. 76S., R. 91E.	Au	--	P	--	U.S. Bur. Mines, 1977
69	Goldstream	T. 76S., R. 91E.	Au, Cu, Pb, Zn	Vein and disseminated	M	Qz veins in greenschist and quartzitic schist; principal vein 1 to 2.5 m wide with best values confined to steeply pitching shoot 20 to 25 m long; py, cp, gn, sl, asp, and native Au; several thousand tons of Au ore produced, values of \$18 per ton reported; 35 m shaft with few hundred m of drifts on two levels	Wright and Wright, 1906, p. 44; Wright, 1908, p. 92; Wright and Wright, 1908, p. 98-99; Berg, 1973, p. 36
70	Gold Flakes	T. 76S., R. 91E.	Ag, Au, Pb	--	P	--	U.S. Bur. Mines, 1977
71	Heckman	T. 76S., R. 91E.	Au	Vein	P	Qz-calc veins with py in chloritic schist, 2.5 m wide lode; explored by opencut, 20 m shaft and drifts; low Au values	Brooks, 1902, p. 62; Wright and Wright, 1908, p. 179
72	Moonshine	T. 76S., R. 91E.	Au	Vein	P	Two parallel qz veins 6 m and 2 m thick in greenstone; explored by 4 m shaft and 10 m opencut; low Au values	Wright and Wright, 1908, p. 179
73	Birdseye	T. 76S., R. 91E.	Au, Pb, Zn	Vein, disseminated	P	Qz vein 1 to 1.5 m wide in porphyry dike in slate and schist; py, gn, sl and Au present in vein and adjacent dike rock; ten-meter shaft and surface stripping	Wright and Wright, 1908, p. 152
74	Gold Nugget	T. 76S., R. 91E.	Au	--	P	--	U.S. Bur. Mines, 1977
75	Sharon	T. 75S., R. 91E.	Cu, Zn	--	P	--	U.S. Bur. Mines, 1977
76	Mahoney	T. 74S., R. 91E.	Ag, Au, Cu, Pb, Zn	Vein	M	A small sl- and gn-bearing vein in slate, averages 30 cm thick over 100 m; open cuts and about 100 m of underground workings; Pb and Zn concentrates shipped; deposit contains an estimated 2,500 tons of ore averaging 6 or 7% Pb and about 28% Zn	Robinson and Twenhofel, 1953, p. 79-82
77	--	T. 74S., R. 92E.	Ag	--	P	--	U.S. Bur. Mines, 1977
78	Londevan	T. 75S., R. 92E.	Ag, Au, Cu, Pb, Zn	Vein	M	More than 1300 m of underground workings including 700 m along the main vein; several small qz veins and a main vein 1 m thick cut dark schists; veins contain 5% or less py, sl, gn, and trace cp and Au; ore was mined and stockpiled at water's edge but not shipped	Wright and Wright, 1908, p. 150; Smith, 1914, p. 88-89
79	A. L. and S.	T. 75S., R. 92E.	Ag, Au, Cu, Pb	--	P	--	U.S. Bur. Mines, 1977
80	Peterson	T. 75S., R. 92E.	Ag, Au, Cu, Pb, Zn	Vein	P	Qz-calc vein in schist contains py, gn, sl, ps, and cp; Au and Ag also reported; two short drifts	Wright and Wright, 1908, p. 150; Smith, 1914, p. 90

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
81	Blue Streak	T.75S.,R.92E.	Au,Cu,Mn	--	P	--	U.S. Bur. Mines, 1977
82	Black Ridge	T.76S.,R.92E.	Ag,Au, Co,Cr	--	P	--	U.S. Bur. Mines, 1977
83	Moth Bay	T.76S.,R.93E.	Ag,Au,Cu, Pb,Zn	Massive, disseminated, vein	P	Open cuts and about 250 m of underground workings; the deposits are thin layers of muscovite schist containing sulfide minerals with qz and calc gangue, and some isolated pod-like masses of sulfides; py, po, sl, cp, gn, minor bn and cv, Au and Ag known only from analyses; measured and indicated reserves include about 100,000 tons of 7.5% Zn and 1% Cu and 10,000 tons of 3% Cu; additional 100,000 tons of lower grade material inferred	Robinson and Twenhofel, 1953, p. 59-71
84	Lake	T.74S.,R.94E.	Pb,Zn	Vein	P	Qz veins containing small amounts of py, gn, and sl in micaceous schist and greenschist near granitic rocks	Wright and Wright, 1908, p. 149
85	Tyee	T.75S.,R.94E.	Au,Pb,Zn	Vein	P	Qz vein 1 m thick in granodiorite; py, sl, gn, and low values in Au	Wright and Wright, 1908, p. 148
86	Massachusetts	T.75S.,R.94E.	Au,Pb,Zn	Vein	P	Qz vein 30 to 150 cm thick in schist and greenschist; py, gn, and sl; Au values of \$12/ton reported; opencuts, 10 m shaft and 15 m drift	Wright and Wright, 1908, p. 148-149
87	Baltic Star	T.75S.,R.94E.	Au,Pb,Zn	Vein	P	Qz vein .5 m wide in mineralized schist; py, sl, gn, and low free gold values	Wright and Wright, 1908, p. 148
88	Baltic/Queen	T.75S.,R.94E.	Au,Zn	Vein	P	Qz vein .3 to 2 m thick in schist; py, sl, and low values in Au; open cuts and two short intersect tunnels	Wright and Wright, 1908, p. 148
89	Golden Rod	T.75S.,R.94E.	Au?	Vein	P	Qz vein 5 m thick in aplitic and/or gneissic granodiorite; low values; several opencuts	Wright and Wright, 1908, p. 146-147
90	Salve	T.75S.,R.94E.	Au	Disseminated, vein	P	Band of mineralized sericitic schist with few small stringers of qz; py with low Au values; opencut and test pit	Wright and Wright, 1908, p. 148
91	Sea Breeze	T.75S.,R.94E.	Au,Pb,Zn	Vein	P	Extension of the mineralized zone of the Sealevel mine; qz veins from .3 to 2 m wide in or near porphyry dike in greenstone; py, gn, sl, and occasional speck of Au in qz gangue; abrupt variations in degree of mineralization and values; opencuts and two short tunnels	Brooks, 1902, p. 67; Wright and Wright, 1908, p. 146
92	Sealevel	T.75S.,R.94E.	Ag,Au, Pb,Zn	Vein	M	Qz veins cut greenschist and altered porphyry dikes with some wall rock mineralization; mineralized belt continues more than 600 m; py, gn, sl, sparse flakes of native Au, and a gangue of qz with some muscovite; mineralization of vein and adjacent wallrock appears greater where vein cuts porphyry dike; opencuts and 40 m shaft with more than 400 m of drifts and crosscuts	Wright and Wright, 1908, p. 144-146

MAP NO.	NAME(S) (if known)	LOCATION	RESOURCE(S)	FORM OF DEPOSIT	CATEGORY	BRIEF DESCRIPTION	PRINCIPAL REFERENCES
93	Goo Goo	T. 75S., R. 94E.	Au, Pb, Zn	Vein	M	Qz vein up to 6 m wide in greenschist; py, sl, gn, and pockets of free gold reported; surface cuts, pit, shaft and long adit	Brooks, 1902, p. 67; Wright and Wright, 1908, p. 147; Chapin, 1916, p. 82
94	Majestic	T. 75S., R. 94E.	Au, Pb, Zn	Vein	P	Qz vein 6 m wide in altered schist may be continuation of Goo Goo vein; py, sl, gn, and minor Au in qz gangue; picked samples assayed \$30/ton; small open pit and short tunnel	Brooks, 1902, p. 67; Wright and Wright, 1908, p. 147
95	Gold Banner	T. 75S., R. 94E.	Au, Pb, Zn	Vein	P	Qz vein .3 to 2 m thick in schist cut by a porphyry dike; py, gn, sl, and occasional particles free gold in qz gangue; 20-m tunnel	Wright and Wright, 1908, p. 147
96	Baby George	T. 75S., R. 94E.	Au?	Vein	P	Three-m-wide qz vein in argillite and greenschist	Wright and Wright, 1908, p. 147
97	Wild West	T. 75S., R. 94E.	Au	Vein	P	Several qz stringers about 30 cm wide in argillite and sericite schist; low Au values; surface cuts only	Wright and Wright, 1908, p. 147
98	High Horse	T. 75S., R. 94E.	Au, Zn	Vein	P	Qz vein 15 cm to 1 m thick in schist; py, sl, and very low Au values; open cuts and short prospect tunnel	Brooks, 1902, p. 68; Wright and Wright, 1908, p. 147-148
99	Ace	T. 77S., R. 95E.	U?	--	P	--	U.S. Bur. Mines, 1977
100	Alava	T. 76S., R. 94E.	Fe	--	P	Associated with ultramafic rocks at Alava Bay	U.S. Bur. Mines, 1977
101	Quartz Ledge	T. 77S., R. 95E.	Au	--	P	--	U.S. Bur. Mines, 1977
102	Manjan	T. 76S., R. 95E.	Mo	--	P	--	U.S. Bur. Mines, 1977
103	Pyrite Lode	T. 76S., R. 95E.	Mo	Vein	P	Pokey occurrence of mo along qz vein in metamorphic rocks	U.S. Bur. Mines, 1977
104	Reliance, (Roe Point)	T. 76S., R. 95E.	Ag, Au, Cu, Zn	Massive(?)	P	Py, po, cp, and sl form replacement(?) lodes in mica schist, Au and Ag also reported; adit with about 30 m underground workings	Wright and Wright, 1908, p. 185; Kenneth Eichner, personal commun.
105	Quartz Hill	T. 75S., R. 98E.	Mo	Vein, coating, and disseminated	P	Large porphyry Mo deposit in composite hypabyssal felsic stock of fine-grained granite and a variety of porphyritic rocks with aphanitic, fine grained and aplitic groundmass; mo-qz veins and mo fracture coatings occur over large areas; py occurs as disseminated grains in porphyries and in veinlets; reports indicate potential ore body in excess of 100 million tons of low grade ore	Elliott and others, 1976; Hudson and others, 1977
106	Gulletta	T. 77S., R. 99E.	Au	Placer	P	--	U.S. Bur. Mines, 1977
107	QC	T. 78S., R. 99E.	Au	Placer	P	--	U.S. Bur. Mines, 1977
108	Red River	T. 78S., R. 99E.	Cu, Mo	Disseminated	P	Py, cp, po, mag, bn, and mo occur as scattered grains along gneissic bands in metasedimentary rocks and gneiss intruded by pegmatite; mineralized bands from few cm to 30 m thick; privately drilled, grade and tonnage information not available	Kenneth Eichner, personal commun.

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109	Grotto	T.77S.,R.91E.	Cu	Disseminated and vein	P	Vein deposit in shear and/or breccia zone in greenschist; owners reported 1% Cu across 1.5 m mineralized zone; developed by more than 150 m of drifts and crosscuts	Brooks, 1902, p. 70-71; Wright and Wright, 1908, p. 140
110	Doe	T.77S.,R.91E.	Cu	Vein	P	Qz vein 1 to 2 m wide containing py and cp in a siliceous chlorite schist	Wright and Wright, 1908, p. 139
111	Damon	T.77S.,R.91E.	Cu?	Vein	P	Qz vein heavily mineralized with py in "banded chlorite country rock"	Wright and Wright, 1908, p. 140
112	Hobo	T.77S.,R.91E.	Cu	Vein	P	Three m vein with py and cp; continuation of War Eagle vein(?)	Wright and Wright, 1908, p. 140
113	War Eagle	T.77S.,R.91E.	Au,Cu	Vein	M	Qz veins in shear/breccia zones in greenschist; py, cp and minor Au with qz gangue; 600 m cross-cut tunnel intersected 6 or more veins	Brooks, 1902, p. 70; Wright and Wright, 1908, p. 140
114	Plutias	T.77S.,R.91E.	Cu?	Vein	P	Qz vein heavily mineralized with py in a "banded chlorite country rock"	Wright and Wright, 1908, p. 140
115	Big Joe	T.77S.,R.91E.	Cu	Vein	P	Qz vein 3 m thick in chlorite schist traced for over 900 m; py and cp; extension of War Eagle mineralized zone(?)	Wright and Wright, 1908, p. 140
116	Jewel	T.77S.,R.91E.	Cu	Vein	P	Qz vein with py and cp	Brooks, 1902, p. 71; Wright and Wright, 1908, p. 139
117	Buck	T.77S.,R.91E.	Au,Cu	Vein	P	Wide qz vein in altered quartzite and schist	Wright and Wright, 1908, p. 139-140
118	Bay View	T.77S.,R.91E.	Ag,Au,Cu,Zn	Vein	P	Qz- and calc-cemented breccia zone with py, cp, and some bn in the qz; sl also reported in another such zone; open-cut and 30 m drift; small smelter shipment reported. Country rocks at mine are metachyolite, trondhjemite, and a prominent mafic dike. SS analyses (Koch and Elliott, 1978a) of mineralized breccia collected from the dike showed up to 10 ppm Ag, 0.10 ppm Au, 200 ppm As, >2% Cu, and 150 ppm Sn	Brooks, 1902, p. 70
119	Sanford	T.77S.,R.91E.	Cu	Vein	P	Vein along shear zone(?) in chlorite schist; low values; short shaft and open-cut	Wright and Wright, 1908, p. 139
120	Concord	T.77S.,R.91E.	Ag,Au,Cu,Zn	Vein	P	Sulfide-bearing qz-ba-carbonate veins in breccia zones at greenstone (=metachyolite?) and pegmatite (=trondhjemite?) contacts; cp, sl and a little Ag and Au; ore from Sunrise vein said to carry value of \$72/ton chiefly in Cu; open-cuts and short tunnels	Brooks, 1902, p. 72-73; Wright and Wright, 1908, p. 139
121	Grenadier	T.77S.,R.91E.	Cu?	?	P	Shear/breccia(?) zone at contact of pegmatite with schist and greenstone; mineralization along shear zones	Brooks, 1902, p. 73

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122	Friday	T.77S.,R.90E.	Cu	--	P	U.S.G.S. studies (Koch and Elliott, 1978a; field locality 698g110) near this prospect show py- and cp-bearing qz-carbonate (-ba?) veins in breccia zones in strongly Fe-stained metamorphosed volcanic, sedimentary, and intrusive country rocks. Workings visible in 1969 (included a few small pits and short tunnels)	U.S. Bur. Mines, 1977
123	Club	T.77S.,R.90E.	U?	--	P	--	U.S. Bur. Mines, 1977
124	Carita	T.77S.,R.90E.	Cu	Vein	P	May be near, or relocation of "Erhart's cista" and/or Starlight; cp with qz and calc in vein or shear/breccia zone(?)	Brooks, 1902, p. 73; Wright and Wright, 1908, p. 140
125	Boots	T.77S.,R.91E.	U?	--	P	--	U.S. Bur. Mines, 1977
126	Black Jack	T.77S.,R.91E.	U?	--	P	Thin, discontinuous seam or seams of black radioactive mineral (pitchblende?) in a dike(?) of "serpentinized" basalt or gabbro that may be in fault contact with metamorphic country rocks. Radioactive mineral apparently occurs on surfaces of small faults. Site examination (1956) and tests with Geiger counter indicate only traces of radioactive material, some of which apparently contains up to several percent of U. Workings in 1956 consisted of several small pits	Williams, 1956; U.S. Bur. Mines, 1977
127	Washington	T.77S.,R.91E.	Cu	Vein (and/or disseminated?)	P	Mineralized zone along sheared/brecciated contact of diabase and pegmatite; py and cp with qz and jasper garnet	Brooks, 1902, p. 72
128	Julian	T.77S.,R.91E.	Cu	--	P	--	U.S. Bur. Mines, 1977
129	Dall	T.77S.,R.91E.	Ag,Au,Cu	Vein, disseminated	P	Cp-bearing qz vein in green-schist and pegmatite(?); in 1901, owners reported average grade/ton of 11% Cu, \$6 in Au, with slight Ag values; two shafts. U.S.G.S. studies near this prospect (Koch and Elliott, 1978a; field locality 689g752-754) show disseminated py and cp, and py- and cp-bearing qz-carbonate-ba veins in breccia zones in Fe- and Cu-stained metamorphosed volcanic, sedimentary, and intrusive country rocks. In 1977, workings at locality 752 consisted of several pits and several(?) thousand meters of drill core mostly in disarray	Brooks, 1902, p. 71-72
130	Annette Bay	T.76S.,R.91E.	Cu,Sb	--	0	--	Berg and Cobb, 1967, p. 180
131	Nedzakeen Cove	T.77S.,R.92E.	Ag,Au,Pb	Vein, disseminated	0	Qz lenses and veins up to 3 m wide and few hundred m long in phyllite and fine-grained schist; qz and country rock near qz contain small amounts of disseminated py and gn, and a few specks of Au; 0.71 oz Au/ton; 0.91 oz Ag/ton	Berg, 1972
132	--	T.77S.,R.92E.	Cu	Coating(?)	0	Trace of mi in conglomerata	Berg, 1972

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133	--	T. 77S., R. 92E.	Ag, Au, Pb	Vein	0	Gn in thin, discontinuous calc- qz fissure veins in subhorizon- tal shear zone up to 6 m thick and few hundred m long; grab assayed 1.38 oz Au/ton, 0.42 oz Ag/ton	Berg, 1972
134	Oriest Pt.	T. 77S., R. 92E.	Pb	Vein	0	Crushed metarhyolite cut by sparse veinlets containing qz, calc, ba, and a few specks of gn	Berg, 1972
135	--	T. 77S., R. 92E.	Cu, Pb	Vein	0	Three(?) m-wide shear zone in metarhyolite; zone contains calc and qz veins carrying ba and hem, plus small amounts of gn, cp, and py	Berg, 1972
136	--	T. 77S., R. 92E.	Pb	Vein	0	Three-m-wide shear zone in brecci- ated metarhyolite contains veins and irregular masses of ba and calc, plus small amounts of hem and gn	Berg, 1972
137	--	T. 77S., R. 92E.	Cu	Vein, dissemi- nated	0	Qz veinlets containing cp, py, hem, and secondary Cu minerals in brecc- iated leucotrochdjemite	Berg, 1972
138	Hassler Harbor	T. 77S., R. 93E.	Cu	Disseminated	0	Sparsely disseminated cp in foli- ated leucotrochdjemite	Berg, 1972
139	Ham Island	T. 77S., R. 93E.	Au	Placer	0	Traces of Au in beach placer material and in qz float near qz-bearing slate and graywacke bedrock	Berg, 1972
140	Beaverlodge	T. 77S., R. 93E.	Au	--	P	--	U.S. Bur. Mines, 1977
141	(Cascade Lake)	T. 77S., R. 93E.	Au	--	0	--	U.S. Bur. Mines, 1977
142	--	T. 77S., R. 93E.	Cu, Pb, Zn	Vein, dissemi- nated	0	Qz lenses and veins up to 10 m wide and 30 m long in phyllite and metarhyolite; some veins con- tain small amounts gn, py, and ms(?); small amounts of sl, cd, py, and gn in metarhyolite(?)	Berg, 1972
143	--	T. 77S., R. 93E.	Ag, Au, Cu, Pb, Zn	Vein	0	Qz veins less than 1 m wide; up to 0.91 oz Ag/ton and 0.43 oz Au/ ton; Cu, Pb, and Zn also reported	Berg, 1972
144	Blunt Mountain	T. 78S., R. 93E.	Pb	Vein	0	Sparse gn, hem(?), and py in fe- stained qz veins and pods up to 3 m thick in schistose trond- hjemite	Berg, 1972
145	--	T. 78S., R. 93E.	Ag, Au, Cu, Pb, Zn	Vein, dissemi- nated	P	Qz veins 1 m or less wide in meta- rhyolite and metarhyolite breccia contain py, cp, and gn; Au and Ag also reported; trace disseminated cp and py in rhyolite microbreccia in 33-m-long adit	Berg, 1972
146	--	T. 78S., R. 93E.	Ag, Au, Cu, Pb	Vein, dissemi- nated	0	Qz lenses and veins in limestone and/or metarhyolite; sulfides in qz veins and adjacent country rock include cd, gn, and minor cp, cv, and cc; small stringers and dis- seminated grains of gn, py, and cp in brecciated dolomitic limestone; may be general vicinity of old Tye prospect	Smith, 1914, p. 92-93; Berg, 1972
147	--	T. 78S., R. 93E.	Cu	Disseminated	0	Location approximate; disseminated cp in leucotrochdjemite	Berg, 1972
148	Metlakofa	T. 78S., R. 92E.	Cu	Disseminated	0	Sparsely disseminated py and cp and traces of m in schist	Berg, 1972

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149	Yellow Hill	T.78S.,R.92E.	Asbestos, Cr,Pt	Vein, disseminated	0	Partly serpentinized dunita containing scattered thin seams of chrysotile asbestos and sparse veinlets and disseminated grains of cr; random sample of massive dunita contained 0.029 ppm Pt	Berg, 1972
150	Tangass Harbor	T.78S.,R.92E.	Cu	Disseminated	0	Very sparsely disseminated py and cp in schist and hornfels	Berg, 1972
151	--	T.79S.,R.92E.	Cu	Disseminated(?)	0	Thin stringers and streaks of py and cp in schist and gneiss	Berg, 1972
152	Sockeye	T.79S.,R.92E.	U?	--	P?	--	U.S. Bur. Mines, 1977
153	--	T.78S.,R.93E.	Au?,Cu	Disseminated	0	Traces of cp, ml, py, and hem in sheared aplice and leucocratic qz monzonite	Berg, 1972 Berg, 1972
154	(Cat Island)	T.79S.,R.94E.	Cu	--	P	Fifty sacks Cu ore reportedly shipped in 1907	Buyvers, 1967, p. 30
155	Ledge Point	T.79S.,R.94E.	Ag,Au	--	P	--	U.S. Bur. Mines, 1977
156	Cow	T.80S.,R.92E.	Fe	Disseminated(?)	P	Titaniferous mag in ultramafic pluton; private drilling	U.S. Bur. Mines, 1974
157	Percy	T.80S.,R.92E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton; private drilling	Taylor and Noble, 1960, p. 181
158	Stebbins	T.80S.,R.92E.	Fe	Disseminated(?)	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
159	--	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959
160	--	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959
161	--	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959
162	--	T.80S.,R.93E.	Cr	Disseminated(?)	P	Cr? in ultramafic pluton?	Irvine, 1959, p. 57-58, 182-183
163	Dud	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
164	Peter(?)	T.81S.,R.95E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959; U.S. Bur. Mines, 1974
165	Red	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959; U.S. Bur. Mines, 1974
166	Ditto(?)	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
167	Cove	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
168	--	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959
169	Camp	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
170	--	T.80S.,R.94E.	Cr	Disseminated(?)	P	Cr in ultramafic pluton?	Irvine, 1959, p. 57-58, 182-183
171	Richard	T.80S.,R.94E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	U.S. Bur. Mines, 1974
172	--	T.80S.,R.94E.	Cu,Ni	--	P	--	Irvine, 1959, p. 82
173	Creek(?)	T.80S.,R.93E.	Fe	Disseminated	P	Titaniferous mag in ultramafic pluton?	Irvine, 1959
174	Ted	T.81S.,R.95E.	Au	--	P	--	U.S. Bur. Mines, 1974

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175	Nakat Mica	T. 81S., R. 98E.	Mica	Disseminated	P	--	U.S. Bur. Mines, 1974
176	Nakat Feldspar	T. 81S., R. 98E.	Feldspar	Disseminated	P	--	U.S. Bur. Mines, 1974
177	Pegmatite Mica	T. 82S., R. 98E.	Mica	Disseminated	P	--	U.S. Bur. Mines, 1974
178	Pearson	T. 82S., R. 98E.	Mica	Disseminated	P	--	U.S. Bur. Mines, 1974
179	Mica City	T. 82S., R. 98E.	Mica?	Disseminated	P	--	U.S. Bur. Mines, 1974
180	Last Chance	T. 82S., R. 98E.	Mica	Disseminated	P	Pegmatite less than 1 m thick in paragneiss; silvery mica in thin books up to 4-5 cm in diameter; deposit is small and mica of poor quality	Sainsbury, 1957b, p. 141, 143, 154-156, 159-161
181	Mrs. Mack	T. 82S., R. 99E.	Mica	Disseminated	P	--	U.S. Bur. Mines, 1974
182	Hyder Mica	T. 82S., R. 99E.	Mica	Disseminated	P	Two massive pegmatite bodies contain mica plates up to 20 cm across; bent and broken books predominate over undeformed mica; explored by several trenches and pits	Sainsbury, 1957b, p. 141, 143, 154-161
183	Garnet	T. 82S., R. 98E.	Garnet	Disseminated	P	Schist contains up to 30-40% garnet. Locally, garnets up to 2.5 cm across	Sainsbury, 1957b, p. 152; U.S. Bur. Mines, 1974

REFERENCES CITED

- Berg, H. C., 1972, Geologic map of Annette Island, Alaska: U.S. Geol. Survey Misc. Geol. Inv. Map I-684, 8 p., 1 sheet, scale 1:63,360.
- _____, 1973, Geology of Gravina Island, Alaska: U.S. Geol. Survey Bull. 1373, 41 p.
- Berg, H. C., and Cobb, E. H., 1967, Metalliferous lode deposits of Alaska: U.S. Geol. Survey Bull. 1246, 254 p.
- Berg, H. C., Elliott, R. L., Smith, J. G., and Koch, R. O., 1978, Geologic map of the Ketchikan and Prince Rupert quadrangles, Alaska: U.S. Geol. Survey open-file rept. 78-73A, 1 sheet, scale 1:250,000.
- Berg, H. C., Elliott, R. L., Smith, J. G., Pittman, T. L., and Kimball, A. L., 1977, Mineral resources of the Granite Fjords wilderness study area, Alaska: U.S. Geol. Survey Bull. 1403, 151 p.
- Brooks, A. H., 1902, Preliminary report on the Ketchikan mining district, Alaska, with an introductory sketch of the geology of southeastern Alaska: U.S. Geol. Survey Prof. Paper 1, 120 p.
- Buddington, A. F., 1929, Geology of Hyder and vicinity, southeastern Alaska, with a reconnaissance of Chickamin River: U.S. Geol. Survey Bull. 807, 124 p.
- Buflvers, John, 1967, History of mines and prospects, Ketchikan district, prior to 1952: Alaska Div. Mines and Minerals Spec. Rept., 32 p.
- Byers, F. M., Jr., and Sainsbury, C. L., 1956, Tungsten deposits of the Hyder district, Alaska: U.S. Geol. Survey Bull. 1024-F, p. 123-140.
- Chapin, Theodore, 1916, Mining developments in southeastern Alaska: U.S. Geol. Survey Bull. 642, p. 73-104.
- Cobb, E. H., 1972a, Metallic mineral resources map of the Ketchikan quadrangle, Alaska: U.S. Geol. Survey Misc. Field Studies Map MF-420, 1 sheet, scale 1:250,000.
- _____, 1972b, Metallic mineral resources map of the Prince Rupert quadrangle, Alaska: U.S. Geol. Survey Misc. Field Studies Map MF-437, 1 sheet, scale 1:250,000.
- Elliott, R. L., Smith, J. G., and Hudson, Travis, 1976, Upper Tertiary high-level plutons of the Smeaton Bay area, southeastern Alaska: U.S. Geol. Survey open-file rept. 76-507, 15 p.
- Hudson, Travis, Elliott, R. L., and Smith, J. G., 1977, Investigations of the Wilson Arm molybdenite deposit, in Blean, K. M., ed., The United States Geological Survey in Alaska; accomplishments during 1978: U.S. Geol. Survey Circ. 751-B, p. 874.
- Irvine, T. N., 1959, The ultramafic complex and related rocks of Duke Island, southeastern Alaska: California Inst. Technology, Pasadena, Ph.D. thesis, 320 p.
- Koch, R. O., and Elliott, R. L., 1978a, Analyses of rock samples from the Ketchikan quadrangle, southeastern Alaska: U.S. Geol. Survey open-file rept. 78-156A, 162 p.
- _____, 1978b, Analyses of rock and stream-sediment samples from the Prince Rupert quadrangle, southeastern Alaska: U.S. Geol. Survey open-file rept. 78-156B, 99 p.
- Robinson, G. D., and Twenhofel, W. S., 1953, Some lead-zinc and zinc-copper deposits of the Ketchikan and Wales districts, Alaska: U.S. Geol. Survey Bull. 998-C, p. 59-84.
- Sainsbury, C. L., 1957a, A geochemical exploration for antimony in southeastern Alaska: U.S. Geol. Survey Bull. 1024-H, p. 163-178.
- _____, 1957b, Some pegmatite deposits in southeastern Alaska: U.S. Geol. Survey Bull. 1024-G, p. 141-161.
- Smith, P. S., 1914, Lode mining in the Ketchikan region: U.S. Geol. Survey Bull. 592, p. 75-94.
- Taylor, H. P., and Noble, J. A., 1960, Origin of the ultramafic complexes in southeastern Alaska: Internat. Geol. Cong., 21st, Copenhagen, Rept., pt. 13, p. 175-187.
- U.S. Bureau of Mines, 1974, Claim map, Prince Rupert: U.S. Bur. Mines Map No. 122, scale 1:250,000.
- _____, 1977, Claim map, Ketchikan: U.S. Bur. Mines Map No. 120, scale 1:250,000.
- West, W. S., and Benson, P. O., 1955, Investigations for radioactive deposits in southeastern Alaska: U.S. Geol. Survey Bull. 1024-B, p. 25-57.
- Williams, J. A., 1956, Black Jack No. 7 claim, Ketchikan quadrangle, radioactives: Property exam. rept., Territory of Alaska Dept. of Mines (now Alaska Div. of Geol. and Geophys. Surveys), June 1956, 4 p.
- Wright, C. W., 1908, Lode mining in southeastern Alaska, 1907: U.S. Geol. Survey Bull. 345, p. 78-97.
- Wright, F. E., and Wright, C. W., 1906, Lode mining in southeastern Alaska: U.S. Geol. Survey Bull. 284, p. 30-54.
- _____, 1908, The Ketchikan and Wrangell mining districts, Alaska: U.S. Geol. Survey Bull. 347, 210 p.