NAME(S) NO. (if known)

9 Yellowband

MINERAL DEPOSITS AND MAIN ORE MINERAL OCCURRENCES IN THE McCARTHY QUADRANGLE (Explanation at end of table)

T.10S.,R.19E. Cr Disseminated 0 Gabbro; sq. sp. 1,000 ppm Cr

BRIFE DESCRIPTION

Networks of specular hem veinlets that cut

altered quartz monzonite; sparsely dissemi-

nated py in some of the quartz monzonite

Small sporadically distributed pods and

disseminations that contain Cu,Pb, and Zn sulfides and their alteration products;

Copper- and iron-stained qz vein float; sq.

Scattered sulfide-bearing disseminations and qz veins, as much as 15 cm wide, in Jurassic

material; 30 ppm Ag, 2 ppm Au(AA), >20,000

quartz diorite; sq. sp. of selected vein

Sulfide-bearing qz vein, as much as 30 cm

thick, that cuts Jurassic quartz monzonite sq. sp. 10 ppm Ag, 0.20 ppm Au(AA), 20,000

Minor surficial workings; geologic setting similar to Yellowband; may be part of Yellow-

about 750 oz gold; sloughed open cuts and a

few hundred metres of underground workings

edly explored a brecciated fault zone

Thin qz veins cutting Valdez Group; probably

Float of sulfide-rich gossan; sq. sp. 15 percent Fe, 15 ppm Ag, 5,000 ppm As, 150 ppm Bi,

Float of sulfide-bearing dike; sq. sp. 1 ppm

Dike with sulfides; sq. sp. 20 percent Fe,

Greenstone; minor Cu minerals in qz-epidote

lite; sq. sp. 1 ppm Ag, 500 ppm Cu, 50 ppm Mo Altered qz vein along fault cutting Permian

Altered qz vein about 1 m wide, along shear zone that cuts Permian marble and amphibo-

marble; sq. sp. 1 ppm Ag, 70 ppm Mo

Altered qz veins, 30 to 60 cm thick, along

shears cutting metamorphosed Skolai Group;

sq. sp. 0.5 ppm Ag, 300 ppm As, 70 ppm Mo

Serpentinized ultramafic rock that contains

Sheared and serpentinized alpine-type ultra-

cut Valdez Group; probably locally auriferous

cms to 1 m in thickness and cut metasedi-

600 m of underground workings, but scant

dike that cuts Valdez Group; about 100 m

Mafic dike with disseminated metallic

py-bearing dike; sq. sp. 15 percent Fe,

Float of hornfels with disseminated sulfides;

sq. sp. 0.5 ppm Ag, 700 ppm Cu, 100 ppm Sb

Magnetite-rich skarn in marble near contact

with small outcrop of monzonite; sq. sp. >20

Disseminated py in schist; minor Cu staining

(1) sulfide-bearing qz vein; sq. sp. 10 ppm

Ag, 1,500 ppm As, 20 ppm Au (7 ppm Au by AA), 500 ppm Cu, 500 ppm Pb

(2) Tertiary granodiorite with qz-mo veinlets

(3) Tertiary granodiorite with disseminated

Float of Tertiary granodiorite from outwash

of Hawkins Glacier; contains disseminated

sulfides; sq. sp. 0.7 ppm Ag, 300 ppm Cu,

Widely scattered boulders of Tertiary grano-

diorite in moraine of Hawkins Glacier that contain mo that is associated with thin qz

Altered dike; sq. sp. 3,000 ppm Mn, 100 ppm

an altered zone, 5 m thick, that cuts

ing Rex and White Creeks and Bligh and

143,500 oz gold produced from the district;

py-bearing metamorphic rock; sq. sp. 15 per-

cent Fe, 0.7 ppm Ag, 200 ppm Cu. 200 ppm Ni

Şmall dikelike, largely serpentinized, ultramafic masses that cut metamorphic rocks of

Small serpentinized ultramafic mass emplaced

n metamorphosed Skolai Group; locally in

fault contact with gabbro; sq. sp. >10 per-

Altered Tertiary granodiorite; sq. sp. 7 ppm

Narrow cc- and ml-bearing veins in fault

zone, 2 m wide, that cuts Nikolai Green-

stone; sq. sp. 7 ppm Ag, 1,000 ppm As,

Permian sedimentary rocks; sq. sp. 2 ppm

Nizina district's placer gold production

sp. >10,000 ppm Sb, 500 ppm As

p Caved shaft on major fault; minor Cu

sq. sp. 1,500 ppm Sb

O Strongly Fe-stained fault zone, 3 m wide;

P mo in qz veins that cut Tertiary grano- Smith, 1942a, p. 182, 183

Irregular alteration zone in volcaniclastic MacKevett and Smith,

rocks of Station Creek Formation; sq. sp. 1968, p. 10, 11, 15;

az and ml in narrow shear zone that cuts MacKevett and Smith.

Mineralized Nikolai Greenstone bordering a MacKevett and Smith,

15-m-wide alteration zone along fault; sq. 1968, p. 10, 11, 15;

sp. 2 ppm Ag, 7,000 ppm As, 15,000 ppm Cu MacKevett and Smith,

its tributaries, chiefly Rader, Seattle, p. 100-101; MacKevett

and Idaho Gulches, were contributors to the and Smith, 1972a

as 25 cm thick, that cut Nizina Limestone; 1968, p. 10, 11, 15 maximum values in sq. sp. 1.2 ppm Au, 700 MacKevett and Smith,

M Placer deposits of Copper Creek and some of Moffit and Capps, 1911,

O Series of sb-bearing qz-calc veins, as much MacKevett and Smith.

O Float of sb-bearing brecciated qz vein; sq. MacKevett and Smith,

cent Mg, 100 ppm Co, 3,000 ppm Cr, 2,000 ppm

Co, 3,000 ppm Cr, 3,000 ppm Ni

Ag, 200 ppm Bi, 500 ppm Mo

5.2 ppm Au

Skolai Group; sq. sp. >10 percent Mg, 150 ppm

Nikolai Greenstone; sq. sp. 50 ppm Ag,

as much as 5 cm thick; sq. sp. 0.5 ppm

sulfides; sq. sp. 1 ppm Ag, 1,500 ppm Cu,

Placer gold reported in gravels of Canyon Moffit, 1916, p. 135

Float; boulders of Tertiary granodiorite MacKevett and Smith,

spread on moraines of Canyon Creek Glacier and Smith, 1972a

O Cu-bearing vein as much as 1 m thick within MacKevett and Smith,

M Placer deposits along Young Creek and some Moffit and Capps, 1911,

O Float of Cretaceous hornfels cut by qz MacKevett and Smith, veinlets; sq. sp. 0.1 ppm Au, 100 ppm Mo, 1968, p. 10, 11, 1

of its tributaries, notably Calamity Gulch, p. 107, 108; MacKevett

yielded a small amount of gold early in the and Cobb, 1969; Mac-

Chititu Creek and its tributaries, includ- Koschmann and Bergandahl,

Jolly Gulches, were the major placer gold producers of the Nizina district. Accounted for more than half of the estimated Capps, 1911, p. 98-100, 103-107; MacKevett, 1974

that contain mo-bearing qz veins are wide- 1968, p. 3; MacKevett

MacKevett and Smith,

1968, p. 14; Moffit and

MacKevett and Smith,

MacKevett and Smith.

MacKevett and Smith,

Three selected mineralized boulders from

minerals; sq. sp. 1,000 ppm Cr

percent Fe, 200 ppm Cu

moraine of Hawkins Glacier:

Ag, >2,000 ppm Mo

200 ppm Mo, 50 ppm W

veins or thin aplite dikes

1.3 ppm Au, >20,000 ppm Cu

minor recent activity

300 ppm Cu

of underground workings; negligible produc-

M Sparsely distributed gold in a series of Moffit, 1914, p. 49, 50;

M Low gold values obtained from gouge and Moffit, 1914, p. 49, 50;

subparallel qz veins that range from a few Moffit, 1937, p. 99, 101

comminuted vein qz along walls of a felsic Moffit, 1937, p. 99, 101

minor chromite and disseminated sulfides; sq. sp. >10 percent Mg, 150 ppm Co, 3,000

ppm Cr, 2,000 ppm Ni

mafic body, similar to 20

O Numerous thin sulfide-bearing qz veins that

ml coating fracture surfaces of Nikolai

locally gold-bearing; sq. sp. 7 ppm Ag

Small production, probably between 2,000 and Moffit, 1914, p. 43-47;

Several auriferous qz veins, generally less Moffit, 1937, p. 101,

Gold irregularly distributed in thin qz Moffit, 1937, p. 102

Largely covered by surficial debris; report- Moffit, 1937, p. 102

3,000 oz gold, recovered from shallow placers Unpub. company report

than 25 cm thick, along walls of steep fel-sic dikes that cut Valdez Group; produced 26 26

ppm Cu, 70 ppm Mo

during early 1900's

veins that cut Valdez Group

300 ppm Cu, 200 ppm Pb

500 ppm Cu

veinlets

Ag, 1,000 ppm Pb, 700 ppm Zn

sp. 10 ppm Ag, 0.25 ppm Au(AA), 7,000 ppm Cu

localized in shear zones, mainly in Permian

PRINCIPAL REFERENCES¹

LOCATION RESOURCE(S) FORM OF DEPOSIT CATEGORY

T.10S.,R.22E. Fe,Cu? Vein and dissemi- 0

T.10S.,R.18E. Cu,Ag,Au,Mo Vein and dissemi- 0

T.10S.,R.21E. Cu,Pb,Zn,Ag Disseminated and

T.10S.,R.18E. Cu,Ag,Au Vein

T.10S..R.18E. Cu.Ag.Au.Mo Vein

T.10S., R.11E. Au Vein

T.10S., R.11E. Au Placer

T.10S.,R.11E. Au Vein

T.10S.,R.11E. Au Vein

T.10S.,R.8E. Ag,Au? Vein

T.9S.,R.22E. Pb,Zn,Ag Disseminated

T.9S.,R.21E. Cu,Fe Disseminated

Mo Vein

T.9S.,R.14E. Ni,Cr Disseminated

T.9S.,R.13E. Ni,Cr Disseminated

T.8S.,R.24E. Cr Disseminated

T.8S.,R.21E. Cu?,Fe? Disseminated

T.8S.,R.20E. re Massive

T.8S.,R.19E. Cu,Mo Disseminated

T.8S.,R.19E. Mo Vein

T.8S.,R.18E. Au Placer

T.7S.,R.18E. Cu,Ag,Au Vein

T.7S.,Rs.15, Au,Ag,Cu Placer

T.7S., R.16E. Au?, Mo Vein

Mo Vein

Au,Ag,Cu Placer

T.7S.,R.11E. Ag? Disseminated

T.7S.,R.11E. Ni,Cr Disseminated

T.7S.,R.11E. Ni,Cr Disseminated 0

T.6S.,R.18E. Cu Vein and coating 0

T.6S.,R.18E. Cu Vein and coating 0

Disseminated

Cu Disseminated

Cu Disseminated

Sn? Vein and dissemi- 0

T.8S.,R.19E. Cu,Mo,Ag,Au Vein and dissemi- 0

T.9S.,R.19E. Cu,Mo Vein

T.9S.,R.17E. Ag?,Mo? Vein

T.9S., R.12E. Au? Vein

T.9S.,R.22E. Ag Vein? and massive 0

Cu Coating and vein 0

10 Chick Nelson T.10S.,R.11E. Au Vein

T.9S.,R.21E.

T.9S.,R.18E.

23 Lucky Girl, T.9S.,R.11E. Au Vein

24 Grand Prize, T.9S., R.11E. Au Vein

T.8S.,R.20E.

T.7S.,R.21E.

T.6S.,R.19E.

(location ap-

T.6S.,R.18E.

T.6S.,R.18E. Cu Vein

T.6S.,Rs.16, Au,Ag,Cu Placer

T.6S.,R.17E. Sb,W,Au Vein

T.6S.,R.17E. Sb Vein

T.6S.,R.17E. Cu? Vein

T.6S.,R.17E. Sb Vein

proximate)

39 Chititu Creek Tps.6,7S.,

and tribu-

taries

and tributar- Rs.15,16E.

Bremner Mining

Bremner Mining

E. M. MACKEVETT, JR.

MINERAL DEPOSITS AND OCCURRENCES IN THE McCARTHY QUADRANGLE, ALASKA

54		T.6S.,R.17E.	Cu,Ag	Vein	р	Sporadically distributed veins as much as	MacKevett and Smith,	94	Gorilla	T.4S.,R.14E.	Cu	Coating	n	Old shallow workings on Fe- and Cu-stained	
						5 cm wide along joints in Nikolai Green- stone; the veins contain cc, cp, po, cv, and ml; explored by a 15-foot-long adit;	1968, p. 10, 11, 14; MacKevett and Smith, 1972a	95	dorrita	T.4S.,R.13E.	Сч	Massive	0	fractures in Nizina Limestone Small ml-coated cc pod in Nikolai Greenstone	
55	Taylor	T.6S.,R.16E.	Au,Cu	Vein, dissemi- nated and massive	<u>P</u>	sq. sp. 30 ppm Ag, >20,000 ppm Cu At and near contact between a Tertiary felsic pluton that contains disseminated	MacKevett and Smith, 1968, p. 10, 11, 15;	96		T.4S.,R.13E.	Cu	Vein	<u>P</u>	cc- and bn-bearing veins as much as 15 cm thick in Nikolai Greenstone near contact	MacKevett, 1972
				nadea and massive		py and Cretaceous hornfels; irregular sulfide-bearing pods along contact; a few narrow qz veins; sq. sp. <0.02-15.4	MacKevett and Smith, 1972a	97	Rega1	T.4S.,R.13E.	Cu	Coating, vein,	М	with Chitistone Limestone; remnants of surficial workings Chiefly ml-rich coatings, veinlets, and	Miller, 1946, p. 101,
55A		T.6S.,R.16E.	Au?,Ag?	Vein in altered	0	ppm Au, 0.5-5 ppm Ag, 50-2,000 ppm Cu Altered qz-rich veins, a few centimetres thick, that cut a Tertiary felsic dike;	MacKevett and Smith, 1968, p. 10, 11, 15;					and disseminated		disseminations in basal Chitistone Lime- stone; minor production; explored by three inclines and subsidiary underground work-	102; Móffit, 1918, p. 163; MacKevett, 1972
				20116		veins contain py and rare cp and sb; sq. sp. of channel sample, 0.5 m long, across altered veins 2 ppm Ag, .03 ppm Au, 700	MacKevett and Smith, 1972a	98		T.4S.,R.12E.	Ag "Au	Disseminated	0	ings and by a few pits in nearby Nikolai Greenstone Float of altered Tertiary granodiorite;	Winkler and others, 1971,
56	Crumb Gulch	T.6S.,R.16E	Au,Sb	Vein	<u>P</u>	ppm Cu Veins as much as 30 cm thick in shear zone	MacKevett and Smith,				ny,nu		0	sq. sp. 2 ppm Ag, 0.2 ppm Au	p. 4, 6; MacKevett and Smith, 1972b
	Prospects					cutting Cretaceous hornfels near Tertiary granodiorite; the veins contain Au, sb, re and py; other mineralized shear zones in vicinity; explored by two short adits	1968, p. 8, 9, 14; MacKevett, 1974	99	Fourth of July Creek	T.4S.,R.12E.	Cu	Vein and coating	<u>P</u>	One short adit and remnants of numerous surficial workings in faulted and strongly jointed Nikolai Greenstone; contains secondary Cu minerals, chiefly ml, and	Moffit and Maddren, 1909, p. 163; Moffit, 1918a, p. 79, 80; MacKevett, 1972
57	Dan Creek	T.6S.,R.16E.	Au,Ag,Cu	Placer	М	Dan Creek placers and those of Copper Creek and its tributaries accounted for slightly	Moffit and Capps, 1911, p. 98-113; Koschmann and	100	Nebraska	T.4S.,R.12E.	Cu	Vein and coating	р	minor bn and cp Several sloughed pits and one short adit	Moffit and Maddren, 1909,
						less than half of the Nizina district's placer gold production, as ci 1959, approximately 143,500 oz; small-scale recent activity	Bergendahl, 1968, p. 14; MacKevett and Smith, 1972a							in fractured Nikolai Greenstone; contains secondary Cu minerals, mainly ml, and rare bn	p. 79
58	Nikolai Butte Prospects	T.6S.,R.16E.	Cu,Ag,Pb,Zn	Vein and coating	<u>P</u>	Several small prospects that explored narrow veins in steep faults that cut the	MacKevett and Smith, 1968, p. 8-11, 14;	101	Lakina	Tps.3,4S., R.11E.	Cu,Ag	Vein and dissemi- nated	<u>P</u>	Main prospect explored by adit on two shear zones, each less than 1 m thick, in Nikolai Greenstone; the shear zones	Moffit and Maddren, 1909, p. 75-77; Moffit, 1918a, p. 161, 162
						Nikolai Greenstone and Chitistone Lime- stone and copper-stained zones along the Nikolai-Chitistone contact; sq. sp. reveal	MacKevett and Smith, 1972a							contain cc, bn, cv, ml, and az; nearby surficial workings along a brecciated flow top of Nikolai Greenstone that con-	p. 101, 102
59	O'Hara	T.6S.,R.9E.	Pb,Zn,Ag	Vein	Р	some Cu values >20,000 ppm and as much as 10 ppm Ag, 15,000 ppm Pb, 10,000 ppm Zn Veins as much as 20 cm thick cutting	Berg and Cobb, 1967,	102		T.4S.,R.10E.	Cu,Ag	Vein and dissemi- nated	0	tains sporadically distributed native Cu Altered volcanic rocks of Skolai Group; sq. sp. 3 ppm Ag, 3,000 ppm Cu	
60		T.6S.,R.9E.	Zn,Pb	Disseminated	0	Permian marble; the veins contain gn, sl, py, ms, and po; explored by two short adits Permian marble with scattered sulfides; sq.	p. 64	103		T.4S.,R.10E.	Ag	Vein	0	Fe-stained gouge in fault zone 3 m wide that cuts metamorphosed Skolai Group;	
				DISSEMINA LEG	O	sp. 15 percent Fe, 300 ppm Cd, 700 ppm Pb, >10,000 ppm Zn		104	Kinney- Golden	T.4S.,R.10E.	Cu	Vein	<u>P</u>	sq. sp. 7 ppm Ag, 200 ppm Pb cp and secondary Cu minerals localized along subsidiary faults that cut Nikolai	Moffit, 1918a, p. 160,
61		T.5S.,R.19E.	Cu,Zn	Vein	0	Float of an altered vein that contains py, cp, and sl; in Tertiary granodiorite ter-rane; sq. sp. l ppm Ag, 10,000 ppm Cu, 200 ppm Pb, 2,000 ppm Zn								Greenstone and the lower member of the McCarthy Formation near a major thrust fault. Explored by an adit and trenches	
62	Erickson	T.5S.,R.18E.	Cu,Ag	Massive, dissem- inated, and vein	М	Native Cu, ten, cup and minor amounts of other copper minerals that form irregular	Miller, 1946, p. 117, 118; MacKevett and Smith,	105		T.4S.,R.9E.	Cr?	Disseminated	0	Small cupola of gabbro that intrudes vol- caniclastic rocks of Station Creek Forma- tion; sq. sp. 150 ppm Co, 1,000 ppm Cr,	
						masses in rubbly upper parts of flows, and, to lesser extents, occur in amygdules and qz-epidote veins; all in Nikolai Green-	1968, p. 12, 13, 16; MacKevett and Smith, 1972a	106	Calcite	T.4S.,R.9E.	Cu	Vein and coating	р	150 ppm Ni In brecciated fault zone in Chitistone	Moffit and Mertie, 1923,
63		T.5S.,R.18E.	Cu	Disseminated	0	stone; minor production in 1917; about 100 m of underground workings Altered contact zone, between gabbro and	MacKevett and Smith,							Limestone near contact with granodiorite; fault zone contains abundant serpentine minerals and sparsely distributed py, cp, and secondary Cu minerals; explored by	p. 138, 139
						sedimentary rocks of the Hasen Creek Formation, 1-3 mm wide; sq. sp. 2 ppm Ag, 20,000 ppm Cu	1968, p. 12, 13, 16; MacKevett and Smith, 1972a	107	Midas	T.4S.,R.9E.	Cu,Fe,As	Massive and vein	P	short adit Contact-metamorphic and vein deposits in	Moffit and Mertie, 1923,
64		T.5S.,R.17E.	Au?	Vein	0	Altered zone 3 m thick along fault that cuts lower member of McCarthy Formation; sq. sp. 1,000 ppm As, 0.2 ppm Au	MacKevett and Smith, 1968, p. 8, 9; Mac- Kevett and Smith, 1972a		(Berg Creek) Upper workings					metamorphosed Nizina Limestone adjacent to granodiorite-quartz diorite pluton; contains mgt, py, and cp; sq. sp. of altered vein contained >10,000 ppm As	p. 140, 141
65	Radovan Low contact	T.5S.,R.17E.	Cu	Vein and dissemi- nated	<u>P</u>	Sporadically distributed cc, cp, py, ms, re, and sb in a brecciated fault zone	Miller, 1946, p. 114-117; Pilgrim, 1933, p. 90-92;	108	Midas (Berg Creek)	T.4S.,R.9E.	Au,Ag,Cu,Fe	Vein and massive	М	qz veins and skarn in metamorphosed Chit- istone Limestone near contact with grano-	Moffit and Mertie, 1923, p. 143-146
						that juxtaposes Nikolai Greenstone and Chitistone Limestone; trenches and short adits	Sainsbury, 1952, p. 14- 17; MacKevett and Smith, 1968, p. 8, 9, 14; Mac- Kevett and Smith, 1972a		Lower workings					diorite and quartz diorite; the qz veins contain py and cp and are Au and Ag bearing; sq. sp. of a vein grab sample	
66	Binocular	T.5S.,R.17E.	Cu	Massive and coating	<u>P</u>	Small ml-stained cc masses in near basal Chitistone Limestone; a few other Cu-	Miller, 1946, p. 114 MacKevett and Smith,							contained 8 ppm Au(AA), 10 ppm Ag, 1,000 ppm Cu, and 20 ppm Mo; the skarn consists of mgt and epidote with irregularly distributed py and cp; a grab sample of it	
67	Radovan Greenstone	T.5S.,R.17E.	Cu,Ag	Vein	<u>P</u>	stained outcrops nearby cc-rich vein, 1-3 m thick, in fault cut- ting Nikolai Greenstone; two short adits	1972a Sainsbury, 1951, p. 12- 14; MacKevett and Smith,							contained 0.6 ppm Au(AA), 1.5 ppm Ag, 20,000 ppm Cu, and 500 ppm Co; explored by two adits; small token production of Au and Ag	
68		T.5S.,R.17E.	Cu	Vein	n	Altered calc-rich veins as much as 1 m	1968, p. 8, 9, 14; Mac- Kevett and Smith, 1972a MacKevett and Smith,	109		T.3S.,R.24E.	Cu	Massive and dissemi	- 0	Native Cu in Nikolai Greenstone; the Cu ranges from shot-size pellets to ramifying	
00		1.55., 17.	Cu	vern	P	thick in lower part of Chitistone Lime- stone; site of an old prospect with minor surface workings; sq. sp. 1 ppm Ag, 1,000	1968, p. 8, 9, 14; Mac- Kevett and Smith, 1972a	110		T.3S.,R.24E.	Cu	Placer	<u>P</u>	masses weighing a few pounds Fairly abundant Cu nuggets in gravels of Kletsan Creek; parts of Kletsan Creek,	Moffit and Knopf, 1910, p. 57; Capps, 1916,
69	Ne1son	T.5S.,R.17E.	Cu,Ag	Massive, vein	М	ppm As, 0.1 ppm Au, 2,000 ppm Cu A Kennecott-type deposit that contains cc, cv, and other Cu minerals in near-basal	Bateman, 1932; Miller, 1946, p. 110-114; Sains-	111		T.3S.,R.23E.	Cu. A.	Vein	0	mainly in Canada, have been staked for placer Cu Cu minerals, mainly ml, in veinlets within	p. 124, 125
						parts of a faulted block of Chitistone Limestone; minor production; a few hundred metres of underground workings	bury, 1951, p. 1-12; MacKevett and Smith, 1968, p. 8, 9, 14; Mac- Kevett and Smith, 1972a			1.33., K. 23E.	Cu,Ag	vern	U	a shear zone that cuts Triassic Daonella beds; mineralized outcrop about 3 x 30 m; sq. sp. 100 ppm Ag, 1,500 ppm As, >20,000	
70		T.5S.,R.17E.	Cu	Vein	0	ml and az-bearing vein, 0.5-1 m thick, in fault that cuts Nikolai Greenstone; sq.	MacKevett and Smith, 1968, p. 12, 13, 15; Mac-	111A		T.3S.,R.21E.	Cu,Ag,Au	Vein and dissemi-	0	ppm Cu Cu-bearing veinlets and disseminations in altered volcaniclastic rocks of Station	
71	Snow Bird	T.5S.,R.16E.	Cu,Ag	Vein	р	sp. 2 ppm Ag, 500 ppm As, 20,000 ppm Cu Cu-bearing vein 0.5-1.5 m thick in shear zone that cuts Nikolai Greenstone; vein	Moffit, 1918a, p. 176, 177; MacKevett and Smith,					, na dea		Creek Formation; 0.9 ppm Au(AA), sq. sp. 15 ppm Ag, 10,000 ppm Cu	
						contains bn, cc, cp, py in a qz-calc gangue; explored by two short adits	1968, p. 8, 9, 14; Mac- Kevett, 1974	112		T.3S.,R.20E.	Cu	Coating	0	Fe- and Cu-stained Nikolai Greenstone; probably old Cu prospect in vicinity but workings are obliterated	
72	Westover	T.5S.,R.16E.	Cu,Ag	Massive and disseminated	М	Mainly bn-rich lenses that contain some cc and ml; localized in lower part of Chiti- stone Limestone; more than 400 m of under-	Miller, 1946, p. 108-110; Moffit and Capps, 1911, p. 95-97; Moffit, 1918a,	113		T.3S.,R.17E.	Cu	Vein	0	cp and az-bearing qz veins as much as 10 cm thick that cut Wrangell Lava	MacKevett, 1970a, p. 8
						ground workings; minor production	p. 175-177; MacKevett and Smith, 1968, p. 8, 9, 14; MacKevett and Smith, 1972a	114		T.3S.,R.16E.	Cu	Vein	0	cc- and ml-bearing qz-calc veinlets and veins as much as 20 cm thick along faults in Nikolai Greenstone	MacKevett, 1970a, p. 7, 8
73	Peavine	T.5S.,R.16E.	Cu	Vein, coating, disseminated, massive	М	Widespread ml and az coatings in brec- ciated fault zone, contains some cc; cuts both Chitistone Limestone and Nikolai	Miller, 1946, p. 120; MacKevett and Smith, 1968, p. 8, 9, 14; MacKevett	DET STATE OF		T.3S.,R.13E.	Cu	Vein and coating	<u>P</u>	Short adit near Chitistone-Nikolai contact, sparsely distributed secondary Cu minerals and cc along fault	
						Greenstone; small shipment made during winter of 1973-74; short adit and surface workings	and Smith, 1972a	116	South of Hidden Creek	T.3S.,R.12E.	Cu	Vein and coating	<u>P</u>	Several prospects, explored by short adits or by surficial workings along faults in Nikolai Greenstone or at Nikolai-Chitistone	Moffit and Maddren, 1909, p. 78, 79; Moffit, 1918a, p. 162, 163; MacKevett,
74	Schulze	T.5S.,R.15E.	Cu	Massive and vein	<u>P</u>	Small cc-rich pod and cc-bearing stringers in lower part of Chitistone Limestone; explored by two short adits	MacKevett, 1974	117		T.3S.,R.12E.	Cu	Vein and coating	р	contact; contain ml and cl and minor bn Adit about 30 m long and old surficial	1972 Moffit and Maddren, 1909,
75	Nikolai	T.5S.,R.15E.	Cu	Vein	<u>P</u>	Two Cu-bearing veins, each less than 1 m thick, in shear zones within Nikolai Greenstone; veins contain bn, cp, py, po,	Miller, 1946, p. 106-108; Mendenhall and Schrader, 1903, p. 28, 29; Mac-							workings along faults in Nikolai Green- stone that contain secondary Cu minerals and scattered bn	p. 77-80; Moffit, 1918a, p. 162, 163; MacKevett, 1972
						and secondary Cu and Fe minerals in a qz-calc gangue; the deposit was known to natives in late 1800's and originally	Kevett, 1974	118	North of Hidden Creek	T.3S.,R.12E.	Cu	Vein	<u>P</u>	ml and minor cc along narrow vein in fault that cuts Nikolai Greenstone; some recent exploration	
75A		T.5S.,R.15E.	Cu?		Р	staked in 1899; more than 100 m of under- ground workings; no recorded production Generalized location for diamond drilling	MacKevett, 1974	119		T.3S.,R.12E.	Cu	Vein and coating	0	Secondary Cu minerals in sheared Nikolai Greenstone; sq. sp. 7 ppm Ag, 500 ppm Cr, 15,000 ppm Cu	
						exploration for Kennecott-type lodes, based on geochemical targets, during early 1970's		120		T.3S.,R.12E.	Sb	Vein	0	Thin sb-bearing vein in Chitistone Lime- stone; sq. sp. 2,000 ppm Sb	
76		Tps.4,5S., R.15E.	Cu?		<u>P</u>	Generalized location of diamond drilling exploration, based on geophysical targets, for Kennecott-type lodes during early 1960's	MacKevett, 1974	121		T.3S.,R.10E.	Cu	Massive and dissem- inated	0	A small exposure of skarn in Triassic marble; an iron-rich contact-metamorphic deposit; sq. sp. 0.06 ppm Au(AA), 1,500	
77	Porphyry Mountain	T.5S.,R.14E.	Au,Mo	Vein	<u>P</u>	qz vein as much as 0.5 m thick intermit- tently distributed along fault cutting a Tertiary pluton; mo, mainly along selvages	MacKevett and Smith, 1968, p. 8, 9, 14; MacKevett, 1974	122		T.3S.,R.10E.	Au	Placer	р	ppm Cu, 7 ppm Mo, >20 percent Fe Relicts of old placer gold workings	
70		T EC D 12E	C	Voin	0	of vein; minor Au values; about 120 m of underground workings	Winkley and others 1971	123		T.3S.,R.10E.	Au?,Mo	Vein	0	Vein about 1 m thick along fault that separates Nikolai Greenstone and Chitistone Limestone; sq. sp. 0.06 ppm Au(AA), 300 ppm	
78		T.5S.,R.13E.	Cu	Vein	U	Altered vein about 15 cm thick that cuts a Tertiary felsic pluton; sq. sp. 1.5 ppm Ag, 2,000 ppm Cu	Winkler and others, 1971, p. 4, 6; MacKevett and Smith, 1972b	124		T.3S.,R.10E.	Мо	Vein	0	Co, 50 ppm Mo Thin altered zone at contact between a felsic pluton and Nikolai Greenstone; sq.	
79		T.5S.,R.13E.	Ag,Au	Vein	0	qz vein a few centimetres thick cutting Tertiary granodiorite; sq. sp. 7 ppm Ag, 5,000 ppm As, 0.4 ppm Au	Winkler and others, 1971, p. 4, 6; MacKevett and Smith, 1972b	125		T.3S.,R.10E.	Cu,Zn	Disseminated?	0.	sp. 70 ppm Mo Patchy altered zones in Nikolai Greenstone;	
80		T.4S.,R.22E.	Cu	Vein and dissemi- nated	0	Native Cu, cc and their alteration prod- ucts in a poorly exposed outcrop of Nikolai Greenstone		126	Pierson	T.3S.,R.10E.	Au?,Zn?	Vein and coating	p	sq. sp. 700 ppm Cu, 500 ppm Zn On brecciated felsic dike along fault that separates Chitistone Limestone and Nikolai	Moffit and Mertie, 1923, p. 136
81	Houghton Alaska	T.4S.,R.17E.	Cu	Coating and vein	р	Several closely spaced old prospects along minor faults near upper contact of Nikolai Greenstone; secondary Cu minerals coat	Miller, 1946, p. 120; MacKevett and Smith, 1972a	127	Mayflower	T.3S.,R.10E.	Cu,Ag	Vein	р	Greenstone; sq. sp. 0.1 ppm Au(AA), 1.5 ppm Ag, 1,000 ppm As, 200 ppm Cu, 700 ppm Zn bn, cc, and secondary Cu minerals in	Moffit and Mertie, 1923,
82	Contact Gulch	T.4S.,R.17E.	Cu	Coating and vein	n	fractures along the faults; explored by a few short adits Old surficial prospects in Nikolai Green-	Moffit and Maddren, 1908,							narrow veins along faults in strongly faulted Nikolai Greenstone; explored by a short adit	p. 135, 136
02	consuct duten		ou		P	stone; explored scattered bn-bearing veinlets and ml surface coatings	p. 167; Moffit and Maddren, 1909, p. 90; MacKevett and Smith, 1972a	128		T.3S.,R.10E.	Cu	Disseminated	0	Nikolai Greenstone with epidote-qz amygdules that contain native Cu and ten; sq. sp. 3,000 ppm Cu	
83		T.4S.,R.17E.	Cu	Vein and dissemi- nated	0	cc- and ml-bearing veinlets and Cu-stained amygdules in lower part of Nikolai Green- stone	MacKevett and Smith, 1972a	129	London and Cape	Tps.3,4S., R.9E.	Cu,Mo	Vein and dissem- inated	<u>P</u>	A porphyry Cu deposit that contains py-cp veinlets and disseminations in locally altered granodiorite and quartz diorite;	Moffit and Mertie, 1923, p. 136, 137
84		T.4S.,R.17E.	Cu	Vein and coating	0	Secondary Cu minerals, mainly ml, along fractures and as surface coatings within	MacKevett, 1970a, p. 8							site of an old adit and some recent explo- ration interest; sq. sp. of grab samples show as much as 1.5 ppm Ag, 20,000 ppm Cu,	
85		T.4S.,R.16E.	Cu	Massive and disseminated	<u>P</u>	a fault cutting Nikolai Greenstone Small mass of Cu minerals in Nikolai Greenstone near apex of an overturned	MacKevett and Smith, 1968, p. 8, 9, 14; MacKevett	130	War Eagle	Tps.3,4S.,	Cu,Fe	Massive and vein	р	and 70 ppm Mo; most samples contained about 1,000 ppm Cu A contact-metamorphic deposit in metamor-	Moffit and Mertie, 1923,
86		T.4S.,R.16E.	Ni?,Au?	Vein?	0	fold; recent exploration calc and ba-bearing altered zone 9 m wide	and Śmith, 1972a MacKevett and Smith, 1968, p. 8, 9, 14; MacKevett			R.9E.			r	phosed Chitistone Limestone adjacent to granodiorite; mineralized zone as much as 8 m thick, contains mgt, po, py, and minor	p. 137, 138
						along major thrust fault; sq. sp. 2,000 ppm As, 0.03 ppm Au, >5,000 ppm Ba, 500 ppm Ni, >20 percent Fe	and Smith, 1972a	131	Copper Queen	T.3S.,R.9E.	Cu,Fe	Massive and vein	р	<pre>cp; sq. sp. revealed as much as 1,000 ppm Cu; prospected by adit and surface cuts A contact-metamorphic deposit in faulted</pre>	Moffit and Mertie, 1923,
87	Green Butte	T.4S.,R.15E.	Cu,Ag	Massive and vein	M	A Kennecott-type deposit that contains cc-rich lodes localized in the lower part of the Chitistone Limestone; about 4,600 m	Miller, 1946, p. 103-104; MacKevett, 1974		(Rarus)					and metamorphosed Chitistone Limestone adjacent to granodiorite; contains mgt, po, py, and minor cp; explored by a	p. 139
						of underground workings, reported to have produced about 1,500 tons of high-grade ore that contained about 1,200 pounds Cu and 10 oz Ag per ton; some recent explora-		132		T.3S.,R.9E.	Cr?	Vein	0	360-m-long adit Vein about 0.5 m thick cutting Chitistone Limestone; sq. sp. 1,000 ppm Cr, 100 ppm La	
88	Tjosevig	T.4S.,R.15E.	Cu, Ag	Massive and vein	<u>P</u>	tion A Kennecott-type deposit in the lower part of the Chitistone Limestone; known depos-	Miller, 1946, p. 104-105; MacKevett, 1974	133		T.3S.,R.9E.	Cu	Coating	<u>P</u>	Part of Great Northern Development Co. exploration near Clear Creek; old adit on ml-stained Nikolai Greenstone	Moffit and Mertie, 1923, p. 127
,						its at the prospect are small; explored by a short (now caved) adit		134		T.3S.,R.9E.	Au,Ag	Vein	0	Altered zone in Nikolai Greenstone; sq. sp. 0.4 ppm Au(AA), 1.5 ppm Ag, 30 ppm Bi	
89	Bonanza	T.4S.,R.14E.	Cu,Ag	Massive, vein, and disseminated	М	Earliest worked Kennecott-type deposit in region; a major producer but only minor production from surficial operations since 1938; cc-rich lodes in lower part of	Bateman and McLaughlin, 1920; Miller, 1946, p. 98-101; MacKevett, 1970b; Douglass, 1964	135	Blackburn	T.3S.,R.9E.	Cu	Vein and coating	р	Several old adits along Cu-stained faults that cut Nikolai Greenstone and dioritic apophyses of the nearby granodiorite pluton	Moffit and Mertie, 1923, p. 128
				W		Chitistone Limestone; subordinate amounts of ore incorporated in talus and glacier		136		T.3S.,R.9E.	Cu?	Vein	p	Caved adit on weakly mineralized altered zone about 1 m thick	
90	Independence	T.4S.,R.14E.	Cu	Vein	<u>P</u>	cc- and bn-bearing veins in shear zones mainly in Nikolai Greenstone near contact with Chitistone Limestone	Moffit and Capps, 1911, p. 92; MacKevett, 1970b	137		T.3S.,R.9E.	Cu,Au,Ag,Mo	Vein and dissem- inated	<u>P</u>	Explored by several adits by Great North- ern Development Co. during 1914-1916; altered veins as much as 2 m wide along	Moffit and Mertie, 1923, p. 126-128
91	Mother Lode	T.4S.,R.14E.	Cu,Ag	Massive, vein, and disseminated	M	A Kennecott-type deposit with workings that connect with those of the Bonanza mine; recent exploration activity; chiefly	Bateman and McLaughlin, 1920; Miller, 1946, p. 98-101; MacKevett, 1970b;				,			faults that cut Nikolai Greenstone and granodiorite; py and cp in veins and as local disseminations in the granodiorite	
92	Jumbo	T.4S.,R.14E.	Cu,Ag	Massive, vein, and disseminated	М	cc-rich lodes in Chitistone Limestone Largest producer of Kennecott mines and accounts for most of the approximately 1.2 billion lbs copper and 9 million oz	Douglass, 1964 Bateman and McLaughlin, 1920; Miller, 1946, p. 98-101: MacKayett, 1970b.							and the Nikolai; some recent exploration interest; sq. sp. of a 2-m-long chip sample across a vein contained 0.5 ppm Au(AA), 5 ppm Ag, and 20,000 ppm Cu	
						silver production from the Kennecott mines; extensive underground workings with interconnections with other Kennecott	98-101; MacKevett, 1970b; Douglass, 1964	138		T.3S.,R.9E.	Cu	Vein	p	Two short adits on thin veins and veinlets in faulted Nikolai Greenstone; minor cp	Moffit and Mertie, 1923, p. 128
93	Erie	T.4S.,R.14E.	Cu,Ag	Massive, vein,	М	mines; cc-rich lodes in lower part of Chitistone Limestone A Kennecott-type deposit; connected to	Bateman and McLaughlin,	139	Valdez (Nugget	Tps.2,3S., R.9E.	Cu,Ag	Vein	М	and ml Fairly extensive underground workings that mainly exploited a bn-cp-py-bearing calc	Moffit and Mertie, 1923, p. 128-133
				and disseminated		Jumbo mine by a long haulage adit; mainly cc-rich lodes in lower part of Chitistone Limestone	1920; Miller, 1946, p. 98-101; MacKevett, 1972; Douglass, 1964		Creek)					vein, locally more than 1 m thick, that cuts Nikolai Greenstone; minor pre-1918 production; sq. sp. of selected ore con- tained 200 ppm Ag and >2 percent Cu; a	

Altered mafic dike about 60 m thick; sq. sp. 1,500 ppm Cu T.2S.,R.21E. Ag?,Mo? Disseminated Alteration zones in sheared granodiorite; sq. sp. 0.7 ppm Ag, 50 ppm Mo T.2S.,R.20E. Vein and dissem- p Cu-bearing veinlets and amygdules in Moffit and Knopf, 1910, Nikolai Greenstone T.2S.,R.20E. Cu Vein Capps, 1916, p. 123 Old prospect with minor workings; not found during current investigation reportedly explored small stringers of cp T.2S.,R.20E. Cu Vein p Thin bn- and cc-bearing veins in Nikolai Moffit and Knopf, 1910, Greenstone; traces of old surficial work- p. 57 Altered material along brecciated and T.2S.,R.20E. Ag Vein and dissem- 0 sheared zone about 50 m wide; sq. sp. 3 ppm Ag, 300 ppm As, 200 ppm Co, 200 ppm Cu, 200 T.2S.,R.20E. Cu Vein Small occurrences of cc and ml in sheared Capps, 1916, p. 123; Nikolai Greenstone; an old prospect T.2S.,R.19E. Cu Vein p Old prospect in Cu-stained Nikolai Green- Capps, 1916, p. 122 bn-, cc-, and ml-bearing veins and pods in Moffit and Mertie, 1923, T.2S.,R.10E. Cu Vein and massive p strongly faulted Nikolai Greenstone; ex-plored by several adits and numerous surfi-cial workings

p. 133-135; Van Alstine and Black, 1946, p. 137, T.2S.,R.10E. Au?,Cu? Vein and coating 0 Altered zone, 15 m wide along fault in Nikolai Greenstone; sq. sp. 0.3 ppm Au(AA), >1 percent Ti, 3,000 ppm As, 300 ppm Cr, 159 Roaring Creek Several prospects marked by old, largely caved workings on both sides of Roaring Creek and its tributaries; on thin veins Moffit and Mertie, 1923, T.2S.,R.9E. Cu Vein that variously contain small quantities of cp, bn, cc, and ml and cut Permian sedimentary rocks or gabbro p Short exploratory adits on thin Cu-bearing Moffit and Mertie, 1923, T.2S.,R.9E. Cu Vein veins in Nikolai Greenstone p. 106, 107 R.2S.,R.9E. Several short exploratory adits; cc and Moffit and Mertie, 1923, Vein and dissem- p native Cu in thin veins and local dissem- p. 106 inations in Nikolai Greenstone Several old claims on Cu-bearing veins in Moffit and Mertie, 1923, T.2S.,R.9E. Nikolai Greenstone; workings practically p. 107 p Several old prospects on py-bearing veins Moffit and Mertie, 1923, 163 Amy Creek T.2S.,R.9E. Cu Vein and altered zones in Permian sedimentary rocks and gabbro, local secondary Cu minerals; sq. sp. of selected samples contain as much as 1.5 ppm Ag and 2,000 164 Shower Gulch T.2S.,R.9E. Cu Disseminated p Sparsely distributed native Cu in upper Moffit and Mertie, 1923, amygdaloidal) parts of Nikolai Greenstone p. 107, 108 flows; explored by open cuts T.2S.,R.8E. Zn,Pb,Ag Vein Altered zone about 2 m thick that cuts Chitistone Limestone near fault contact with Nikolai Greenstone; sq. sp. >5,000 ppm Mn, 15 ppm Ag, 70 ppm Cd, 20 ppm Mo, 3,000 ppm Pb, >10,000 ppm Zn 3-m-wide altered fault zone in Nikolai T.2S.,R.8E. Cu Vein and coating 0 Greenstone; sq. sp. 0.2 ppm Au(AA), 1.5 ppm Ag, 7,000 ppm Cu bn and minor cp in thin veins and local Moffit and Mertie, 1923, T.2S.,R.8E. Vein and dissemi- p disseminations in Nikolai Greenstone; explored by two short adits T.2S.,R.8E. Cu Coating ml-stained fracture coatings in a fault Moffit and Mertie, 1923, that cuts Nikolai Greenstone; explored by p. 100 T.2S.,R.8E. Cu Vein and coating p Minor amounts of bn, cp, and ml in a brec- Moffit and Mertie, 1923, ciated qz-calc vein, about 1 m thick, that p. 104, 105 cuts Nikolai Greenstone; explored by a short adit; sq. sp. 5 ppm Ag, 20,000 ppm Cu T.2S.,R.8E. Cu Vein p Several short exploratory adits; several Moffit and Mertie, 1923, py- and cp-bearing veins, less than 30 cm of selected samples contain as much as 3 ppm Ag, 1,000 ppm Cu, and 20 ppm Mo Sparsely distributed native Cu and cc in Moffit and Mertie, 1923, T.2S.,R.8E. Cu Disseminated amygdaloidal Nikolai Greenstone Native Cu and its alteration products in Capps, 1916, p. 121, 122 172 Copper T.1S.,R.19E. Cu Disseminated about a 2-m-thick zone in Nikolai Greenstone 173 Surprise T.1S.,R.9E. Several old prospects on adjoining claims Moffit and Mertie, 1923, near Surprise and Sunshine Creeks; ex- p. 108-110 plored by open cuts and a few short adits; mainly on cc-, bn-, and cp-bearing veins in faulted Nikolai Greenstone and grano-T.1S.,R.9E. Mo Vein O Widely spaced qz veinlets cutting Nikolai Greenstone near contact with granodiorite sq. sp. >1 percent Ti, 700 ppm Cr, 300 ppm Mo P Probably part of Silver Star group; open Moffit and Mertie, 1923, T.1S.,R.8E. Ag,Cu,Bi Vein cut on veins similar to those at Silver p. 111, 112 Star prospect Ag,Cu,Bi, Vein Sb,Pb,Zn 176 Silver Star T.1S.,R.8E. Two adits and an open cut; thin qz veins Moffit and Mertie, 1923, that contain argentiferous td and subor-dinate gn, sl, and Cu minerals; country rock is Nikolai Greenstone near Jurassic granodiorite; minor Bi reported in analyses Explored by four adits and several open Moffit and Mertie, 1923, 177 Lost Cabin T.1S.,R.8E. Cu Disseminated cuts; cc, bn, and cp sparsely disseminated p. 112 in Nikolai Greenstone A porphyry-type deposit that contains T.1S.,R.8E. Cu,Mo Vein and dissemi- 0 numerous py- and cp-bearing qz veinlets and local disseminated sulfides in granodiorite; sq. sp. contained as much as 0.1 ppm Au(AA), 2 ppm Ag, 5,000 ppm Cu, 70 ppm Mo, >5,000 ppm Ba, 100 ppm Sb p Several old workings in vicinity; mainly Moffit and Mertie, 1923, on qz veins, as much as 50 cm thick, that p. 114, 115 T.1S.,R.8E. Cu,Au,Ag Vein cut Permian argillite and granodiorite; the veins contain py, cp, and minor cc; Au and Ag reported in old assays Explored by two adits in Nikolai Green- Moffit and Mertie, 1923, 180 Good Enough T.1S.,R.8E. Cu Vein and dissemi- p stone; cc, ml, and az in veins and native p. 112, 113 Cu and cp in amygdules Prospects on several old claims in Nikolai Moffit and Mertie, 1923, T.1S.,R.8E. Cu Vein and dissemi- p Greenstone; explored by short adits and p. 113, 114 and New Home surface cuts; mainly amygdaloidal deposits that contain native Cu, cup, and ten; minor cc, bn, and secondary Cu minerals in thin Explored by a short adit and open cuts; bn Moffit and Mertie, 1923, T.1S.,R.8E. Cu Vein and dissemi- p and cc in thin veins and native Cu and cc in amygdules; all in Nikolai Greenstone O Vein in fault zone that cuts Nikolai Green-T.1S.,R.8E. Cu Vein stone; sq. sp. 0.5 ppm Ag, 15,000 ppm Cu T.1N., R.24E. Au Placer Native Cu, ml, and cup in amygdules within Alaska Territorial Dept. T.1N.,R.19E. Cu Disseminated a small isolated outcrop of Nikolai Green- Mines mem., unpub. data, 0 py and minor cp disseminated in argillite Knaebel, 1970, p. 16 and in a small gabbro mass near a fault T.2N.,R.24E. Cu Disseminated T.2N.,R.24E. Au Placer O Placer gold occurrence Small outcrop of massive sulfides sur-Moffit and Knopf, 1910, T.2N.,R.24E. p. 59; Knaebel, 1970, rounded by surficial deposits; probably of contact metamorphic origin; mainly po, minor cp, asp, and Au; explored by a py and cp disseminations and veinlets in Knaebel, 1970, p. 16 T.2N.,R.24E. Cu Disseminated granodiorite and pendants of hornfels mainly near a shear zone; several other small, similarly mineralized outcrops in O Thin cc- and bn-bearing gz veins along T.2N.,R.18E. Cu,Ag Vein brecciated contact of a Tertiary felsite; sq. sp. 15 ppm Ag, >20,000 ppm Cu Mineral deposits and main ore mineral occurrences in the McCarthy quadrangle Explanation for table Abbreviations used: ppm - - - - - - parts per million sq. sp. - - - - - semiquantitative spectrographic analysis (AA) - - - - - atomic absorption analyses

FOLIO OF THE MC CARTHY QUADRANGLE, ALASKA

MAP MF-773B

SHEET 2 OF 2

MACKEVETT--MINERAL DEPOSITS AND OCCURRENCES MAP

O bn-bearing veins as much as 6 cm thick in an

Ag, >20,000 ppm Cu, 7 ppm Mo

sp. 1 ppm Ag, 1,500 ppm Cu

O Veins as much as 10 cm thick cutting

As, >2,000 ppm B

minor Cu staining

O Irregular altered zones in Permian limestone; sq. sp. 500 ppm Cu, 10 ppm Bi

1,500 ppm Cu

altered fault zone about 2 m thick that cuts

Amygdaloidal Nikolai Greenstone; probably

contains some native Cu; sq. sp. 1 ppm Ag,

Several subparallel bn-bearing Cu-stained veinlets in Nikolai Greenstone; sq. sp.

1.3 ppm Au(AA), 50 ppm Ag, >20,000 ppm Cu

Fe-stained altered zone, about 1 m thick, in Permian argillite; sq. sp. 1 ppm Ag, 150 ppm B, 1,500 ppm Cu, 5 ppm Mo

Reticulated network of Fe-stained veinlets

gabbro; sq. sp. 0.2 ppm Au(AA), 700 ppm

Old prospect pit on 2-m-wide altered fault

distributed Cu minerals in amygdules

sporadically distributed py-calc veins with

Caved adit in Nikolai Greenstone; sparsely Capps, 1916, p. 124

Nikolai Greenstone; sq. sp. of vein; 200 ppm

T.3S.,R.8E. Cu,Ag Vein

T.3S.,R.8E. Cu Vein?

T.3S.,R.8E. Au Vein

T.2S.,R.21E. Cu

T.2S.,R.21E. Cu

T.3S.,R.8E.

T.3S.,R.8E. Cu Disseminated 0

T.3S.,R.8E. Cu,Ag,Au Vein and coating 0

T.3S.,R.8E. Cu Vein and coating 0

T.3S.,R.8E. Cu Vein and coating p

Cu Vein and coating 0

Disseminated

Disseminated

3 1818 00181148 6

ml - malachite

mo - molybdenite

po - pyrrhotite

ms - marcasite

standard chemical symbols, for example, Cu - copper, Fe - iron

 \underline{P} - - - - - - prospect with probable post-1950 exploration activity p - - - - - - prospect with no apparent post-1950 exploration activity

cp - chalcopyrite

0 - - - - - - - occurrence or deposit that, except for (171), (185), and (188), were discovered during recent USGS investigations

Unless otherwise specified, the reported analyses represent grab samples of the sampled media. All analyses by U.S. Geological Survey: semiquantitative spectrographic analyses by J. Abrams, K. J. Curry, G. W. Day, C. L. Forn, D. J. Grimes, R. T. Hoskins, E. L. Moiser, and D. Siems; atomic absorption analyses for gold by W. L. Campbell, R. B. Carten, H. D. King, R. W. Leinz, A. L. Meier, R. L. Miller, D. G. Murrey, M. S. Rickard, T. A. Roemer, and

1 Descriptive information based mainly on recent USGS investigations. Principal references cite pertinent published data. Information on unreferenced

cup - cuprite cv - covellite

gn - galena

m ---- metre

az - azurite

bn - bornite

calc - calcite

M - - - - - - mine

cc - chalcocite

localities based on unpublished USGS data.

ba - barite

cm - - - - - centimetre

slablike copper nugget that weighed several tons was found in Nugget Creek near the

re - realgar sb - stibnite

sl - sphalerite

ten - tenorite

td - tetrahedrite