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LOCATIONS AND DESCRIPTIONS OF LODE MINES
AND PROSPECTS IN THE FAIRBANKS DISTRICT, ALASKA

By

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Introduction

This report has been compiled from data gathered in the field in September and October, 1966, and from a detailed survey of the various geologic and mining reports on the Fairbanks lode mining district. A number of people who are familiar with mining in this district have provided some additional information, and their help is gratefully acknowledged.

The map (fig. 1) and table 1 give an essentially complete coverage of the locations and pertinent geologic data for all lode mines and prospects in this district. Analyses of 101 samples, collected on a reconnaissance basis from dump material and exposures that are available around some of the mines and prospects and from several igneous rock bodies that are closely related to the lode deposits, are given in table 2. The analyses provide data for a preliminary evaluation of the geochemical characteristics of the deposits and the rocks to which they are presumably genetically related, and may be helpful background information for future detailed geologic studies and exploration. The metal contents that are shown in table 2 have not been incorporated in table 1.

Mineral Deposits

The lode deposits and prospects in the Fairbanks district are known chiefly for their gold content, but there has also been some production of antimony, tungsten, and lead-silver. The deposits are concentrated in two areas within the district--the Pedro Dome-Cleary Creek area, and the Ester Dome area. The tungsten deposits (predominantly scheelite) are principally in the Gilmore Dome-Tungsten Hill area, and a small group of antimony deposits (stibnite) is located in the area at the head of Vault and Treasure Creeks. Lode deposits are conspicuously absent outside of these four areas.

The three major rock units with which the lode deposits are associated are: Birch Creek Schist of Precambrian or early Paleozoic age; quartz diorite to granodiorite of probable Mesozoic age; and porphyritic quartz monzonite to granite of probable Mesozoic age. Descriptions of these units and maps showing their distribution are given by Hill (1933), Forbes and Brown (1961), and Péwé, Wahrhaftig, and Weber (1966). The igneous rock bodies are exposed in the Pedro Dome and Gilmore Dome-Tungsten Hill areas, and most of the lode deposits are in the schist adjacent to these bodies, although a few gold, scheelite, and sulfide deposits occur within the igneous rocks. A few exposures of quartz diorite and granitic dike rocks are known in the Ester Dome area, but the presence of a pluton similar to those at Pedro and Gilmore Domes has not been established, although it seems reasonable to believe that one may be located at a relatively shallow depth beneath Ester Dome.

Analyses of Samples

The 101 samples and specimens listed in table 2 are divided into two groups: metallized rock which includes a variety of selected specimens that were taken because they are obviously mineralized or closely associated with a mineral deposit; and rock which includes chiefly the samples of quartz diorite to granodiorite and porphyritic quartz monzonite to granite that were taken at random to obtain a rough evaluation of the metal content of the igneous country rock in this district. Inasmuch as the metallized rocks are selected specimens and are only characteristic of a particular deposit or limited area, and little detailed study has yet been done to relate them specifically to an ore body or group of deposits, these analyses, which show many anomalous values, are presented without further discussion or interpretation.

There are several anomalous metal occurrences in the country rock specimens that seem worthy of further investigation and evaluation.

1. The country rock at the Rowley-Schumeff prospect on Steamboat Creek (89 on fig. 1) is an altered quartz diorite to granodiorite and contains anomalously high amounts of Pb, Mo, Cd, Zn, Sn, and Au. The extent of this altered igneous rock and the relationships of metal distribution within this zone should be determined.
2. Three samples of granodiorite from Pedro Dome and the Busty Belle adit contain anomalous amounts of W (100-150 ppm). This is probably not of economic significance as the scheelite which has been noted in the Busty Belle

edit occurs as sparsely-distributed crystals in some of the very thin calcite and quartz stringers emplaced along fractures in the granodiorite.

3. Several samples, chiefly of porphyritic quartz monzonite, from the Pedro Dome area contain 3 to 5 ppm Be, and one sample contains 10 ppm Be.
4. Samples of porphyritic quartz monzonite to granite from the Gilmore Dome area show the following high to anomalous content of metals: Bi 10-15 ppm, Pb 150-5000 ppm, Be 3-10 ppm, and Nb 20-50 ppm. Two samples (F-39 and F-40, fig. 1) collected along a road about 1 mile northwest of Gilmore Dome show 3,000 and 10,000 ppm Sb, although no metallization is megascopically visible in the rocks.

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Explanation of Compilation

Metals		Mineralogy		Attitudes	
tr	trace	?	location questionable	asterisk*	underground attitude
?	questionable	ab	albite	st	steep
<u>Au</u>	recorded production	agl	anglesite	vt	vertical
<u>Au</u>	recorded	anc	anorthoclase	?	reliability questionable
		ap	apatite	N. 50° W. ¹	dike
		as	arsenopyrite		
		ax	axinite		
		bit	biotite		
		bs	bismuthinite		
		bi	native bismuth		
		ca	calcite		
		cas	cassiterite		
		cer	cerrusite		
		cc	chalcocite		
		ch	chalcopyrite		
		cl	chlorite		
		clz	clinozoisite		
		cov	covellite		
		di	diopside		
		ep	epidote		
		fl	fluorite		
		frei	freibergite		
		ga	galena		
		ga(Ag)	argentiferous galena		
		gar	garnet		
		au	gold (free)		
		hr	hornblende		
		hr(u)	uralitic hornblende		
		ja	jamesonite		
		or	K-spar		
		lm	limonite		
		CuCo ₃	malachite-azurite		
		mel	meliphanite		
		mo	molybdenite		
		ms	muscovite		
		ol	oligoclase		

Explanation of Compilation (Continued)

Mineralogy

po	powellite
py	pyrite
px	pyroxene
pyr	pyrrhotite
qtz	quartz
rob	robinsonite
sh	scheelite
se	senarmontite
sp	sphalerite
sph	sphene
sb	stibnite
ox	Sb-As oxides
tet	tetrahedrite
tr	tourmaline
ves	vesuvianite
zin	zinkenite

Abbreviations used for publication series are:

B U.S. Geological Survey Bulletin
RI U.S. Bureau of Mines Report of Investigation
TDM Territory of Alaska Department of Mines Pamphlet

FROM DC: AP-2A

[illegible]

Table 1.--Description of lode prospects and mines in the Fairbanks area, Alaska--Cont. (cont.)

							SHEET 2 OF 11 PRETETS, FAIRBANKS AREA, ALASKA	
16	Excellator claim prospect			Pb, Fe, Ag(?)	st, ga, as, ls	Hard quartzite schist and shiny graphitic schist country rock with a nearby light-gray, fine-grained granitic rock.	N. 33° E., 30'	B 114-B, p. 71 Killeen and Mortie (1951), p. 47
17	McNeil shaft prospect (approx. location)		Kara, Anderson, Gibbs (Leinducker property Branholt-Jenkins property)	Sb, Fe	qtz., ga, ls, as	Light-colored quartz-mica schist country rock, with sulfide-bearing quartz vein.	N. 60° W., 73' E.	B 114-B, p. 71 B 114-B, p. 71 B 114-B, p. 71 Killeen and Mortie (1951), p. 71
18	"Cross-vein" prospect (approx. location)			Co, Pb, Ag(?)	st, ga, as		N. 30° E., 38' (st.)	B 114-B, p. 71
19	Ferrell prospect	Minnie Arrowtook		Au, Sb, Ag	qtz., au, st, ag, ox, ls	Mineralized, parallel quartz veins in schist country rock with reticulating veinlets of stibnite in quartz and schist.	N. 80° W., 50° S.	B 114-B, p. 71 Killeen and Mortie (1951), p. 71
20	Kellen prospect			Au, Sb	st, ox, as	Quartz veins in blocky schistose quartzite.	N. 20° E., 60° S.	B 114-B, p. 71
21 a	McCarty mine (located on the Henry Ford group)	McCarty group Marigold T.B. Barrietta Pioneer Willie Pennsylvania Free Gold Laughing water Minnie Ba-Ha Henry Clay American Eagle vein American Eagle "tunnel" Big vein Upper and Lower Henry Ford veins Jamesonite vein Blue Lead vein	Keystone Mines, Inc.	Au, Sb, Pb, Zn	qtz., au, sb, js, sp, as	Crushed iron-stained quartz and gouge.	N. 70° W., 72° S. N. 80° W., 60°-70° S. N. 30° E., 75° NW.	Maloney (1916), p. 14-15 B 549-B, p. 107-108 TEN 1, p. 10 Killeen and Mortie (1951), p. 33
b	Dorothy claim prospect Prospect unit(?)					Quartz stringers. Steeply dipping quartz vein.		B 525, p. 107 B 525, p. 107
22	Henry Ford No. 3 mine	Henry Ford group Henry Ford No. 1 Henry Ford No. 2 Henry Ford No. 3 Henry Ford No. 4 Golden Eagle El Toro 3 claim American Eagle property McCarty vein		Au, Sb	qtz., au, sb	Vein consists of quartz adjacent to hanging wall with 30 to 35 inches of crushed quartz, schist, and gouge above the footwall slip. Hanging wall slickensides show post-mineral horizontal movement.	N. 78° W., 75° S. N. 40° E., 6E. (st.)	B 525, p. 107 B 549-B, p. 107-108
23 a	Pioneer vein mine	McCarty group		Au			N. 65° W., 50° S.	B 525, p. 107 B 549-B, p. 108
b	Pennsylvania vein mine	McCarty group		Au			N. 60° S., 60°-70° S.	B 549-B, p. 108
c	Antimony vein prospect	McCarty group		Sb				B 549-B, p. 108
24	Keystone Mines, Inc.	Willie claim of Keystone group	Nordale property Ed Ebert and RECS Corp. leasees	Au, Sb, Pb, Ag	sb, js, ga	Narrow (< 1 foot) massive sulfide fissure vein, crushed zone, and sheet-type bodies which cross-cut the schist country rock foliation and have associated (1) yellowish selvages derived from oxidation of sulfides and sulfosalts, (2) green siliceous material, and (3) altered argillaceous wall rock.	NW.	

Table 1.--Description of lode prospects and mines in the Fairbanks area, Alaska--Continued

25	Homestake mine	Homestake group Wolf Keystone Kavallita Fairbanks Hope Nordale vein Homestake vein Nordale sill	Homestake Mining Co. Nordale Property Keystone Mines, Inc.	Au, Ag, Zn, Cu	Qtz., ss, sp, gm, py, co, ch-chro.	Several quartz veins in black slate series, with these portions of the veins which contain the copper minerals also having the highest gold contents.	E. N., 35° S. N. 60° N., 45° E. N. 70° E., 30° S.	Horizontal	B 52, p. 175 B 53, p. 175-176 B 54, p. 177-178 Killing and Meritt (1911), p. 10 Sandvik (1911), p. 119-120
26	a Banner claim prospect b Resalt mine			Au	qtz., ss	Intersecting sulfide-bearing quartz veins and narrow gash with some exceptionally rich gold ore.	N. 25° E., 25° S. E. N., 60° E.		B 52, p. 177 B 53, p. 178 Killing and Meritt (1911), p. 13 Sandvik (1911), p. 119-120
27	Scissors prospect			3b	qtz., ss	3 to 4-inch quartz vein carrying an appreciable amount of stibnite.	NE.		B 52, p. 177 B 53, p. 178 Killing and Meritt (1911), p. 13
28	Vetter mine Vetter-Sheldon mine		Paula Vetter Adolph Vetter	Au, Sb, Cu, Zn, Ag, Pb	qtz., ss, ja, ox, ss, as(t), pyrit(t), pyrit(t)	Sulfide fissure vein deposit which transsects flat-lying schistose quartzite and quartz-schist iron-stained, brecciated quartz and silicified schist horizons are associated with the vein material.	N. 80° N., 45° S. N. 75° N., 50° S. E. N., 8.	N. 40° E., 75° SE.	Sandvik (1911), p. 119-120 B 53, p. 178 Brown (1912), p. 117-120
29	Keystone Mine, Inc.	Kavallita claim of Keystone group Kavallita shaft	Nordale property	Au, Sb, Pb, Cu, Zn	qtz., ja, py, wt(t)	Quartz vein which transsects flat- lying schistose quartzite, quartz- sulfide schist, and green schist rocks.	E. 70° N., 30°-60° S.	N. 30° N., 35° S.	B 52, p. 177 B 53, p. 178 Killing and Meritt (1911), p. 13
30	Chubb mine	Chubb No. 2 Pax Pax No. 2 Colby Colby No. 2	Chubb Mining Co.	Au, Sb, Ag, Cu, Zn	qtz., ss, py, ja(t), pyrit(t)	6-12 inch sulfide-bearing quartz vein with pronounced bedding wall, sulfide-sulfide silicification. This lode is cut by a 10-15 foot wide zone of shearing which contains kidney and shoots of stibnite.	N. 60° N., 65°-80° S. E. 8. N. 70° N. N. 70° E.		B 52, p. 177-178 B 53, p. 178 B 54, p. 179-180 B 55, p. 181 B 56, p. 182-183 B 57, p. 184 B 58, p. 185-186 B 59, p. 187-188 B 60, p. 189-190 B 61, p. 191-192 B 62, p. 193-194 B 63, p. 195-196 B 64, p. 197-198 B 65, p. 199-200 B 66, p. 201-202 B 67, p. 203-204 B 68, p. 205-206 B 69, p. 207-208 B 70, p. 209-210 B 71, p. 211-212 B 72, p. 213-214 B 73, p. 215-216 B 74, p. 217-218 B 75, p. 219-220 B 76, p. 221-222 B 77, p. 223-224 B 78, p. 225-226 B 79, p. 227-228 B 80, p. 229-230 B 81, p. 231-232 B 82, p. 233-234 B 83, p. 235-236 B 84, p. 237-238 B 85, p. 239-240 B 86, p. 241-242 B 87, p. 243-244 B 88, p. 245-246 B 89, p. 247-248 B 90, p. 249-250 B 91, p. 251-252 B 92, p. 253-254 B 93, p. 255-256 B 94, p. 257-258 B 95, p. 259-260 B 96, p. 261-262 B 97, p. 263-264 B 98, p. 265-266 B 99, p. 267-268 B 100, p. 269-270 B 101, p. 271-272 B 102, p. 273-274 B 103, p. 275-276 B 104, p. 277-278 B 105, p. 279-280 B 106, p. 281-282 B 107, p. 283-284 B 108, p. 285-286 B 109, p. 287-288 B 110, p. 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No.	Locality	Prospect	Mineral	Notes	Remarks	References
76	East Star prospect	Big lead prospect	Pb	Lead	Lead	B 223, p. 223
77	Concord Dales prospect	(approx. location)	Pb	Lead	Lead	B 223, p. 223
78	Galeana prospect	(approx. location)	Pb	Lead	Lead	B 223, p. 223
79	Central Star prospect		Pb	Lead	Lead	B 223, p. 223
80	Dampson and Burns prospect		Pb	Lead	Lead	B 223, p. 223
81	North Star Extension mine		Pb	Lead	Lead	B 223, p. 223
82	S. S. prospect		Pb	Lead	Lead	B 223, p. 223
83	David prospect	Apak claim prospect	Pb	Lead	Lead	B 223, p. 223
84	Burnet Galeana prospect		Pb	Lead	Lead	B 223, p. 223
85	Egan prospect		Pb	Lead	Lead	B 223, p. 223
86	Burnet prospect		Pb	Lead	Lead	B 223, p. 223
87	Zimmerman prospect No. 2		Pb	Lead	Lead	B 223, p. 223
88	Brech and Anderson mine	Rever claim mine	Pb	Lead	Lead	B 223, p. 223
89	Robinson prospect		Pb	Lead	Lead	B 223, p. 223
90	May Florence claim prospect		Pb	Lead	Lead	B 223, p. 223
91	Silver Dollar claim prospect		Pb	Lead	Lead	B 223, p. 223
92	Rowley-Schumert prospect	Magnifying prospect	Pb	Lead	Lead	B 223, p. 223
93	Silverstone mine	Anderson-Nachwitz mine	Pb	Lead	Lead	B 223, p. 223
94	Basty Belle prospect		Pb	Lead	Lead	B 223, p. 223

Table 1.--Description of lode prospects and veins in the Fairbanks area, Alaska--continued

				DISTRIBUTION OF PROSPECTS: PEDRO DOME AREA			
91	Verdin prospect (approx. location)		Ed Verdin	W(?) Mo(?)	sh, pc(?)	Chlorite-bearing glassy con- cretions were possibly derived from intensely weathered bedrock.	
92	Freeman and Sharf prospect	Cottonwood group	Curry Anderson, F. M. Mackowitz	Au, Ag, Pb	pb(Ag)		B 49, p. 193
93	Leslie prospect Old Glory prospect	Old Glory claim	Bob Leslie Frank Hawks Duane Franklin	SH(?) W, Mo, Mn	sh	5-foot zone of finely disseminated scheelite in quartz-dior schist and quartzite near a tongue of the Pedro Dome granodiorite.	D. 10' = 1.50' ± TOM 2, p. 23 Z 147, p. 21-22 B 1024-B, p. 202 p. 203-210 B 22, p. 100
94	Alaska Flyer claim prospect			Au	qtz.		
95	Soo mine and associ- ated prospects Spaulding mine	Soo la Rose Wild Rose Waterbury Carnation Inspiration Waverly Big Chief Little Joe vein Soo vein Wild Rose vein Chief vein H-K vein	C. M. Hawkins Reliance Mining Co. M. E. Stevens S. A. Martin Heath and Kearns	Sb, Au, Ag	qtz., au, sb, te, py, as, lm, ox	Crushed quartz in quartz-dior schist.	E-W., 60° N. N. 50° E., 50° N. N. 45° E., 40° SE. (approx.) E-W., 60° N. N. 76° W., 60° N. N. 70° W., 53° NE.
96	Markwitch mine Hindenburg mine Ohio claim prospect		Poz and Contardi John Rogash	Au, Sb, Zn, Cu, Ag	qtz., st, as, ap(?) ch(?) frei(?)	Iron- and manganese-stained crushed quartz carrying some stibnite and arsenopyrite.	NE. 1/4, 60° SE. E-W., S. (?)
97	Spruce Creek prospect (approx. location)			Au			
98	Wether Lode claim prospect No. 1 (Dose Creek)			Cu	py, as, ch	Graphitic limestone impregnated with disseminated sulfides.	B 52, p. 14
99	Woods edit prospect on Franklin Lode	Alpha Mary Franklin Omega	M. E. Stevens Ed Stevens C. G. Bazzell	Au, Sb, Pb, Mn	qtz., au, as, py, sb, ga, lm	Quartz veins pinch and swell, and in part are massive with associ- ated Au values, but mainly are shattered and sugary with the richer Au, including some visible flakes. Some clay gouge and iron and manganese staining is present.	N. 60°-80° W., 75° N. N. 65° E., 52° N. N. 77° E., 56° N. N. 45°-76° E.
100	Thrift mine (approx. location)		Charles Thrift	Au			B 52, p. 195
101	Fredericks mine			Au, Sb	qtz., sb, py, as, ca, ox, lm	Brecciated and mineralized schist with an associated granitic dike, rather than a distinct quartz vein.	B 52, p. 193-196 B 549, p. 30-31 B 549-B, p. 50-51 Killeen and Mertie (1951), p. 14 Sandvik (1964), p. 123-124
102	Boel Bros., Johnson, and Wilmer pro- spect (approx. location)			Au			B 52C, p. 32 B 52, p. 196
103	Gilmer mine Machano mine Helen W. claim mine		Edward Wilcox	Au, Sb, Ag	qtz., sb, ga, ca, ox	Auriferous (0.2 to 0.7% oz Au/ton) massive stibnite in a fracture or shear zone in silvery mica-schist country rock.	N. 70° E., 60°-70° NW. N. 70° E., 60°-70° NW. N. 80° E., 20° S.
104	Independence Creek prospect						B 549-B, p. 157
105	Goodwin prospect (Independence Creek)			Sb(?)	sb(?)		Killeen and Mertie (1951), p. 23

Table 1.--Description of lode prospects and mines in the Fairbanks area, Alaska--Continued

No.	Description of lode prospect and mine	Owner	Mineral	Type of deposit	Remarks	Dip	Strike	Location	References
106	Goodwin mine (Eagle Creek)	R. C. Woods	Au, Sb, Pb, Zn	qtz., ad. sb., sp., py.	Masses of massive stibnite occur- ring in crushed schist.	N. 15° E.	52°-70° S.	Y. 1/2 E. 1/2 S.	B 501-B, p. 157 Allen and Mertie, 1951, p. 22-23 B 501, p. 156 B 649, p. 20-29 B 652, p. 15 B 649-B, p. 176-181 Killeen and Mertie (1951), p. 12 Sedovik (1964), p. 121-122 B 525, p. 196 B 649-B, p. 156-157
107	Treasure Creek prospect								
108	Stafford mine Black Eagle mine								
109	Anthony Ridge prospect	Kenneth E. O'Hara Ailey Taylor Silver Ridge Mining Co. (lease)	Sb	sb, ox	Silbrite in crushed quartz-mica schist.				
110	Bunker Hill mine	Silver Ridge Mining Co. (lease)	Sb	sb	Shale, sand on metallized breccia associated with a quartz-mica schist. Breccia contains silbrite and mica-schist.				
111	Bunker Hill prospect	Albert Goodwin	Au	qtz.	Quartz vein with mica schist hanging wall and quartz-mica schist foot wall.	N. 15° W., 70° E.			B 502, p. 345 B 509-B, p. 154 B 649-B, p. 153-154
112	Faulkner prospect	John Faulkner	Ss(t)	qtz., mica, feldspar, cas	50-foot wide crushed zone com- posed of brecciated, iron-stained schist.				B 502, p. 345 B 509-B, p. 154 B 649-B, p. 153-154
113	White Association prospect				Quartz-feldspar-mica pegmatite along a mica-schist-graphite schist contact. Cassiterite has been reported from this locality.				
114	Ferrill and Murphy mine (approx. location)				Bornblende schist and mica schist impregnated with scheelite along foliation surfaces.	N. 75° E., 75° W. (shoot)			B 502, p. 341
115	Stepovich prospect				Irregular mass of sulfide-bearing quartz (massing in thick- ness from 6 inches to 3.5 feet), which splits into stringers in brecciated quartzite beds. Associated dike reported to have 15.00 Au/ton.	N. 55° E., 50° W.			B 525, p. 174 B 592, p. 340-341
116	Yellow Pup prospect	Eller Stahl William Birlik M. S. Anderson Charles Murry Pat Savage		qtz., ol, mus, sp, gar, sb	Sulfide-bearing quartz veins with sulfide masses cemented by acro- rite.	N. 70° E., 70° W.			B 525, p. 165 B 570, p. 335 B 1024-25, p. 200-201
117	Yellow Pup prospect	Alaska Metals Mining Co. (lease) and (Kittling and Anderson) (underground exploration)			Quartz pegmatite in a garnet facies zone and quartz-scheelite veins in hornfelsed schist.				
118	Granite Hill Monte Cristo	Granite Hill Monte Cristo			5 to 6 inch thick native in situ. Silbrite-bearing gold quartz vein striking east, which cuts a fine-grained biotite granite country rock; 2 other veins strike N. 5° W.	N. 5° W., vt.			B 502, p. 345 B 502, p. 152 B 649-B, p. 15

Table 1.--Description of lode prospects and mines in the Fairbanks area, Alaska--Continued

SHEET 11 OF 11 SHEETS, PEDRO DOME AREA									
118 a	Tungsten claim mine) Scheelite claim mine)	George Evers Alaska Tungsten Mines Co.	W	qtz., px, hr(u), ap, tl, cl, bio, sh	Skarn and pegmatite deposits.	N. 40° E., 25° W. (shoot)	N. 70° E., 35° N.	B 402, p. 410-421 B 419-B, p. 157-158 B 692, p. 375-386	
c	Stepovich lode mine	Clary Hill Mines Co. (lessee) Alaska Metals Mining Co. (surface and underground exploration)	Sb, Be(tr), Sn(tr), W, Mo, Mn	qtz., di, hr, ca, sp, tlz, cl, anr, ca, bio, cl, ap, spb, ves, ex, gar, mel, sh, cr, py, pyr	The major rock units are: (1) crystalline limestone (marble), (2) quartz pegmatite, (3) sill-cated mica schist, and (4) green amphibolite. The tungsten occurs as granular scheelite in irregular masses which replace crystalline limestone, and as scheelite-bearing quartz pegmatites. Localization of the granular-type ore is attributed to flowage of carbonate material to crests and troughs of flexures during folding, and to the proximity of quartz pegmatite "feeders". Several northward-striking faults cut the lode.	N. 70° E., 35° NW N. 40°-60° W., 60° NE. (pegmatite) NW(?) NE. (steep)	N. 70° E., 35° NW	B 1024-I, p. 189-198	
d	Colbert lode prospect	Lon Colbert Clary Hill Mines Co. (lessee)	Sb(tr), Sn(tr), W, Mo, Mn	qtz., sh, ol, or, spb, ap, di, cl, ca, hr, cl, sp, bio, ss, gar	The major rock units are: (1) banded sill-cated schist, (2) pink garnet tectite, and (3) granular sill-cated limestone, near the contact with the (4) Nugget Creek porphyritic granite. This lode replaces mainly calcareous schist.	NE(?) 35°-45° NW		B 1024-I, p. 199-202	
119 a	Schubert prospect	Plamigan Franklin	W	qtz., sh, ca	Skarn deposit of the granite-schist contact with scheelite occurring as sparsely scattered grains in a 2-inch band within a sill-cated limestone.		N. 35°-40° E., vt.	B 1024-I, p. 201	
b	Zimmerman prospect		J. F. Zimmerman	W	qtz., sh	Quartz-scheelite occurring as replacement deposits in limy horizons of the schist.	N. 40° E., NW		B 692, p. 327
120	Steele Creek prospect							B 525, p. 210	
121	Rose Creek prospect		Sb	qtz., sb, or(?)	Tiny veinlets of stibnite in a quartz-feldspar vein.	N. 30° E., 70° NW		B 472, p. 341	
122	William Brown prospect				Prospect near porphyritic granite-schist contact.			B 582, p. 341	
123 a	Green Mt. claim prospect		Au	qtz., au	15-foot wide quartz vein near a brecciated mass of schist.			B 592, p. 345-346	
b	Woodpecker claim prospect (approx. location)		Au	au	Auriferous weathered granite.			B 592, p. 346	
124	Spruce Run prospect		W, Mo	qtz., di, gar, tlz, ves, ca, fl, sh, mo	Skarn deposit.	N. 50° E., 45° NW, N. 60° E. (tectite zones) N. 33° E., 40° NW		B 662, p. 411 B 692, p. 375-387 B 926-C, p. 196 B 1024-I, p. 201-203	
125	Columbia prospect		W	qtz., sh	Decomposed schist containing quartz-scheelite stringers, with a porphyritic granite hanging wall.	N. 20° W., 30° E.		B 592, p. 346 B 1024-I, p. 205-206	
126	Tumma prospect		Au, W	qtz., au, sh	Quartz-scheelite-gold stringers in a 3-foot wide mineralized zone which conforms to the quartzite foliation.	N. 5° W., 60° E.	N. 30° E., 35° NW	B 1024-I, p. 204-205	
127 a	Tungsten Hill prospect	Grand Duke Nikolas claim Tungsten No. 1 claim General Joffre claim	Au, W	qtz., au, sh	Scheelite in schist country rock.			B 1024-I, p. 205	
b	Anderson prospect		W	qtz., sh	Scheelite-quartz vein in quartz-mica schist.	N. 50° E., 55° NW	N. 50° E., 20° NW	B 662, p. 424	

Table 1.-Description of idle prospects and mines in the Fairbanks area, Alaska--Continued

128	Blossom prospect	Black Bear Blossom		qtz., sh	Pyroxene-type quartz-schistose schists containing quartz, biotite schist and porphyritic granite.		11 SHEETS. THE DOME AREA B 502, p. 307 B 1024, p. 253-254
129	Peterson prospect		JAMES Peterson	qtz. (?)	Prospect holes in barren schist.		B 509-B, p. 113
130	Ridge mine prospect		Frank Tomason	Au	N. 50° E., S.		B 511-B, p. 153
131	Columbia Creek prospect			Au(?)			B 512, p. 210
132	Engineer Creek prospect			qtz., ss, ls	Archeozoic-bearing, iron-stained quartz.		B 513-B, p. 153

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Table 1.--Description of lode prospects and mines in the Fairbanks area, Alaska--Fairbanks

No.	Name	Location	Owner	Metal	Type	Description	Dip	Strike	Remarks
9	Billy Sunday mine	West Hole vein, Leah (Leah) Fraction	Smith Bros. E. A. Smith	Au, Pb	qtz., ss, sb, as, sp	Crushed quartz and schist.	N. 10°-15° W., 15°-20° E. N. 10° W., 20° E. N. 10° E., 20° W. N. 10° W., 45° W. N. 10° E., 45° W. N. 10° W., 45° E. N. 10° E., 45° W.	N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E. N. 10° W., 20° E.	B 392, p. 354 B 392-B, p. 354
10 a	Fair Chance mine	Fair Chance Star Crystal Frisco Fraction	Miller J. O'Connor	Au	qtz.	Quartz veins in northeast-trending zone of crushed schist.		N. 20° E., 60° W.	B 392, p. 354 B 392-B, p. 354
b	Blue Bird No. 2		J. E. McDonald			Probably same zone as on Fair Chance claim.			B 392-B, p. 354
11	Seattle Fraction prospect (approx. location)		R. Jepson J. Michalek						Reed (1939), p. 10
12	Little Flower mine		J. McCann E. Olsen H. Smith J. Morris	Au				N. 70° E.	Reed (1939), p. 10-11
13	St. Paul mine		McCann Thomas Michalek Bagel	Au, Sb	qtz., ss, sb, as	Quartz vein in quartz-mica and biotite schists. Gold mineralization followed an earlier barren quartz vein, which had been shattered. Not typical of gold-quartz veins in this district.	N. 40° E., 35° W. N. 30° E., 45°-70° W.	(Flat fault)	B 392, p. 400-414 B 392-B, p. 124-124 Reed (1939), p. 11
14	Camp Bird prospect		P. McLaughlin O. B. Stack M. Yakopatz					ENE., 35° W.	Reed (1939), p. 11-12
15	Clypper mine		McDonald Michalek Hess Thomas McCann L. Lounsbury	Au, Sb	qtz., ss, sb, ja(?)	Narrow auriferous quartz veins in biotite schist and quartzite.	N. 20° W., 55° W.	N. 10° E., 10°-15° W.	B 392-B, p. 114 Reed (1939), p. 11 Killeen and Hart (1951), p. 16
16	Stibnite lode mine (approx. location)		D. L. Thomas J. Leach J. McCann E. Hess	Sb	qtz., sb, ox, lm	Massive stibnite lenses (largest recorded: 100 feet long, 7 feet wide, 4 feet thick) with quartz hanging wall and crushed schist footwall contacts in a northwest-trending shear zone.		N. 10° W., 70°-80° S.	B 392, p. 34-34 Killeen and Hart (1951), p. 14
17	Wandering Jew mine		J. E. McDonald J. Michalek Thomas J. McCann A. Bernard C. Foss P. Delasto	Au	qtz., lm, ox	4 to 18 inch wide, sulfide-bearing quartz vein.	N. 10°, 75°-80° E.	S. 10°, 37° E. N. 30° W., 35°-40° NE.	B 392-B, p. 114 Reed (1939), p. 12-13
18	First Chance mine		S. Stay McLaughlin Franklin	Au	qtz.	Vein ranging from 6 inches to 4 feet in width.	N. 10° E., 44° W.	N. 10°, 16°-20° E.	B 392-B, p. 114-114
19	Bondholder mine	Bondholder vein	Hightower	Au	qtz., sb, ss, ox, lm	Quartz vein in quartz-mica schist.	N. 24° E., 45° NW.		B 392, p. 354-354 B 392-B, p. 114-114
20	Prometheus prospect		E. Hess Hess and Thomas(?)	Au, Sb, Pb, Ag, Cu	qtz., sb, ss, ja, cov, ch, tet	Sulfide-bearing auriferous quartz vein with anomalous Ag values (6.40 oz/ton).	N. 40° E. N. 40° E., 70° W.		B 392, p. 354-354 B 392-B, p. 114 McCombe and August (1931)
21	Big Blue prospect					Crushed schist, quartz, and gouge in fault zone.	N. 27° E.		B 392-B, p. 114
22	Lincoln prospect (approx. location)		P. McLaughlin J. Loberg S. Picotte	Au(?)		Grab samples from one dump assay \$160.00 (Au)/ton.			Reed (1939), p. 11
23	Dorothy and Dorice prospect Happy Creek prospect (approx. location)		G. Krutisch R. Cosgrove	Sb	sb	Stibnite float (maximum dimension 2 feet).	N. 40° E.		B 392, p. 354 TDM 1, p. 11

Table 1.--Description of local prospects and claims in the Fairbanks area, Alaska--Continued.

No.	Prospect name (approx. location)	Owner	Mineral	Remarks	Notes	References
24	Royal Flush mine Adler mine (approx. location)	J. J. Grevey D. Miller	Au	200' long of the mine averaged 44% Au. Produced from a 3 foot wide vein.	N. 40° E., 6° S.	B 300-B, p. 10 B 301-B, p. 10 B 302-B, p. 10
25	Sandford mine Zoe Tree mine	J. E. Sanford	Au	Quartz vein of variable thickness.	N. 40° E., 15° S. N. 20° E., 10° S.	B 303-B, p. 10 B 304-B, p. 10 B 305-B, p. 10
26	Grant mine No. 2	C. M. Grant	Au, Sb	6 inch wide quartz vein in quartzite schist country rock.	N. 10° N., 65° E.	B 306-B, p. 10 B 307-B, p. 10 B 308-B, p. 10
27	Lepson prospect (approx. location)	H. Lepson	Au	20-foot wide quartz vein parallel to a porphyritic granite dike.	N. 30° N.	B 309-B, p. 10 B 310-B, p. 10 B 311-B, p. 10
28	Mohler prospect Murphy prospect	Stipp Logan Murphy	Au	Discolored, iron-stained quartz and schist.	S. 40° E.	B 312-B, p. 10 B 313-B, p. 10 B 314-B, p. 10
29	Engel prospect		Au			
30	Blue Bonanza prospect Minuteman	Blue Bonanza Minuteman	Au, Sb, Fe, Ag, Cu, Pb	Gold and sulfide-bearing quartz veins.		
31	Flagler prospects(?)		Au(?)	Large body of mineralized quartz.	N. 30°, 15° S.	B 315-B, p. 10 B 316-B, p. 10 B 317-B, p. 10
32	Whitely mine		Au	Muddy quartz vein in quartz- mica schist or gneiss.	N. 30°, E. or W. (st.) N. 30° W., 60° E.	B 318-B, p. 10 B 319-B, p. 10 B 320-B, p. 10
33	Farmer mine	M. Borden J. Lobenz	Au	Iron-stained quartz in quartz- mica schist, crushed bluish schist, and fault breccia.	N. 25° E., 50° N.	B 321-B, p. 10 B 322-B, p. 10 B 323-B, p. 10
34	Farmer lode prospect		Au	Auriferous vein cuts schists and is in turn cut by many small faults.	N. 30°, 40° E.	B 324-B, p. 10 B 325-B, p. 10 B 326-B, p. 10
35	Prospect(s) (approx. location)		Sb	2-3 foot wide quartz-stibnite vein in quartz-mica schist.	N. 60° E.	B 327-B, p. 10 B 328-B, p. 10 B 329-B, p. 10
36	McQueen mine Jerry C. claim prospect Black Diamond lode	R. C. McQueen	Sb or Au	Stibnite above and kidneys in iron-stained quartz.	N. 50° W., 20° S. N. 30° E., 50° N. N. 40° W., 75° W.	B 330-B, p. 10 B 331-B, p. 10 B 332-B, p. 10 B 333-B, p. 10 B 334-B, p. 10 B 335-B, p. 10 B 336-B, p. 10 B 337-B, p. 10 B 338-B, p. 10 B 339-B, p. 10 B 340-B, p. 10 B 341-B, p. 10 B 342-B, p. 10 B 343-B, p. 10 B 344-B, p. 10 B 345-B, p. 10 B 346-B, p. 10 B 347-B, p. 10 B 348-B, p. 10 B 349-B, p. 10 B 350-B, p. 10 B 351-B, p. 10 B 352-B, p. 10 B 353-B, p. 10 B 354-B, p. 10 B 355-B, p. 10 B 356-B, p. 10 B 357-B, p. 10 B 358-B, p. 10 B 359-B, p. 10 B 360-B, p. 10 B 361-B, p. 10 B 362-B, p. 10 B 363-B, p. 10 B 364-B, p. 10 B 365-B, p. 10 B 366-B, p. 10 B 367-B, p. 10 B 368-B, p. 10 B 369-B, p. 10 B 370-B, p. 10 B 371-B, p. 10 B 372-B, p. 10 B 373-B, p. 10 B 374-B, p. 10 B 375-B, p. 10 B 376-B, p. 10 B 377-B, p. 10 B 378-B, p. 10 B 379-B, p. 10 B 380-B, p. 10 B 381-B, p. 10 B 382-B, p. 10 B 383-B, p. 10 B 384-B, p. 10 B 385-B, p. 10 B 386-B, p. 10 B 387-B, p. 10 B 388-B, p. 10 B 389-B, p. 10 B 390-B, p. 10 B 391-B, p. 10 B 392-B, p. 10 B 393-B, p. 10 B 394-B, p. 10 B 395-B, p. 10 B 396-B, 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995-B, p. 10 B 996-B, p. 10 B 997-B, p. 10 B 998-B, p. 10 B 999-B, p. 10 B 1000-B, p. 10

Table 2.--Semi-quantitative spectrographic analyses and gold analyses of rock samples from near Fairbanks, Alaska--Continued

CLEARLY CREEK AREA--Continued

Locality	Field No.	Tag No.	Macroscopic Description of Sample	Mg %	Fe %	Ca %	Ti %	Au ¹ ppm	Au ² ppm	Au ³ ppm	Ag ppm	Sb ppm	W ppm	V ppm	Mo ppm	Sn ppm	Ni ppm	Cr ppm	Ir ppm	Ba ppm	Sr ppm	B ppm	Pb ppm	Mn ppm	Bi ppm	Be ppm	Nb ppm	Y ppm	Co ppm	Cu ppm	Zr ppm	Ag ppm	La ppm	Tm ppm	Sc ppm	Co ppm	L/S
28	66AF-71	AUG-645	Yellowish-tan alteration surface on stibnite (ore pile).	.05	.1	1.5	.015	<.01	<.02			1500	>10000	<50	10	<5	<.01	<5	<5	20	<.01	10	1000	200	<.01	<5	<.01	20	<.01	300	<.01	20	100	300	<5	<5	X
28	92	646	Yellowish-tan alteration surface on stibnite-arsenopyrite(?) (trench).	.1	1.5	5	.01	<.01	<.02			>10000	>10000	<50	10	<5	<.01	50	<5	30	700	30	1500	50	<.01	<5	<.01	50	<.01	300	<.01	50	100	<200	<5	<5	Y
28	93	647	Stibnite (pit).	.1	5	1.5	.3	<.01	<.02			2000	>10000	<50	15	<5	<.01	150	10	100	<.01	50	1000	500	<.01	<5	20	100	<.01	2000	100	200	200	1000	20	70	X
56	95	649	Auriferous quartz-stibnite-sulfide(?) rock (trench).	.2	.3	2	.02	30	.2			1500	>10000	<50	<.01	<5	<.01	5	<5	70	<.01	20	100	100	<.01	<5	10	<.01	<.01	200	<.01	10	70	<200	<5	<5	Y
55	97	651	Massive pyrite-sphalerite-arsenopyrite-galena (tails).	.5	20	2	.015	<.01	.2			>10000	2000	<50	<.01	<5	100	15	10	30	<.01	50	>20000	1000	<.01	<5	10	<.01	<.01	700	<.01	500	<.01	>10000	<5	<5	X
55	98	652	Massive pyrite-sphalerite-arsenopyrite-galena (tails).	1	15	7	.01	<.01	.1			7000	3000	<50	<.01	<5	150	<5	10	30	<.01	30	20000	5000	<.01	<5	10	10	<.01	2000	<.01	200	<.01	10000	<5	<5	X
54	99	593	Disaggregated iron-stained quartz (1 foot channel).	.05	2	.05	.05	<.01	.3			2000	150	<50	10	<5	<.01	<5	<5	70	<.01	20	50	20	<.01	<5	<.01	<.01	<.01	15	<.01	<.01	20	200	<5	<5	Y
F-100	102	637	Pyrite-bearing calc-schist (dredge tails).	7	10	20	.3	<.01	.03			3000	3000	<50	100	<5	100	15	70	500	1000	150	10000	3000	<.01	1	20	20	<.01	50	200	30	<200	10	10	Y	
F-100	103	638	Garnetiferous mica schist with pyrite parallel to foliation (dredge tails).	.7	5	1.5	.7	<.01	<.02			2000	2000	<50	150	<5	30	20	100	500	<.01	150	3000	200	<.01	2	30	20	<.01	150	300	7	50	<200	30	20	Y
F-100	104	639	Limnate-carbonate-quartz rock (dredge tails).	.7	5	20	.2	<.01	<.02			200	200	<50	30	<5	<.01	15	30	100	100	20	300	3000	<.01	2	10	15	<.01	15	10	1	<20	<200	5	5	Y
F-100	105	640	Green chert-like material (dredge tails).	1	7	5	.5	<.01	.02			<200	<.01	<50	200	<5	<.01	30	70	150	<.01	20	70	2000	<.01	2	10	15	<.01	150	20	<.01	<200	20	20	Y	
55	94	648	Sulfide-bearing blue and white banded marble (trench).	5	2	>20	.02	<.01	.2			<200	10000	<50	10	<5	<.01	10	10	50	1000	<.01	500	75000	<.01	<5	<.01	<.01	<.01	20	<.01	20	<200	<5	<5	Y	
55	96	650	Gray schistose marble (trench).	2	1.5	>20	.03	<.01	<.02			<200	2000	<50	15	<5	<.01	5	10	50	1500	20	100	1500	<.01	<5	<.01	<.01	<.01	20	<.01	<.01	<200	<5	<5	X	
F-100	100	654	Garnetiferous amphibolite with disseminated pyrite (dredge tails).	10	10	5	1	<.01	<.02			<200	<.01	<50	500	<5	<.01	300	2000	70	200	1000	100	5000	<.01	<5	30	10	<.01	150	150	.5	50	300	50	70	X
F-101	101	655	Dense, garnetiferous amphibolite with minor disseminated sulfides (dredge tails).	3	30	5	1	<.01	<.02			<200	<.01	<50	300	<5	<.01	50	500	70	300	10	70	5000	<.01	<5	30	30	<.01	300	150	<.01	50	200	50	50	Y
F-100	102	656	Tourmaline-bearing amphibolite (dredge tails).	10	10	5	.7	<.01	<.02			<200	<.01	<50	300	<5	<.01	200	1000	100	700	>2000	100	3000	<.01	1	30	10	<.01	20	100	<.01	<200	200	20	50	X
F-103	103	657	Schistose garnetiferous amphibolite (dredge tails).	10	10	5	1	<.01	<.02			<200	<.01	<50	500	<5	<.01	150	1000	700	700	<.01	50	3000	<.01	<5	70	13	<.01	150	200	<.01	<200	30	70	X	
55	66AD-28		Massive sulfides.	<.02	20	.05	.005	<.01	.6			>10000	1500	<50	<.01	<5	<.01	<5	<5	30	<.01	100	15000	15	<.01	<5	10	<.01	<.01	30	<.01	150	<200	1000	<5	<5	X
C-33	66AD-33		Mica schist with reddish-orange coating (dredge tails).	.7	3	2	.5	<.01	.03			<200	<.01	<50	100	<5	<.01	20	30	70	<.01	70	100	700	<.01	<5	<.01	10	<.01	20	150	<.01	<200	10	10	X	

