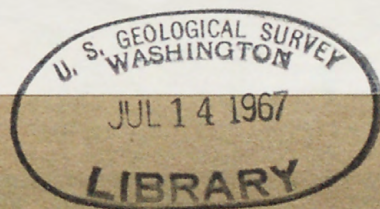


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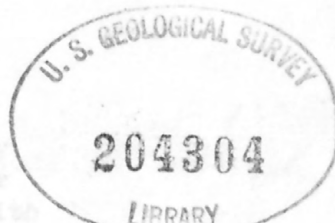
LOCATIONS AND DESCRIPTIONS OF GOLD MINES

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

By
Robert M. Chapman and Robert L. Foster

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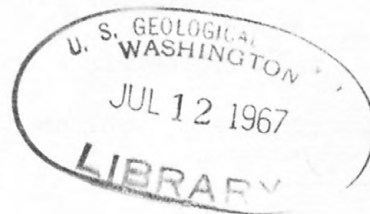
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Locations and Descriptions of Lode Mines
and Prospects in the Fairbanks District, Alaska

By

Robert M. Chapman and Robert L. Foster

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

adit 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.

References

- Alaska State Division of Mines and Minerals, 1962, The mining industry: Report for the year 1962, p. 8.
- Beistline, E. H., 1939, An examination and valuation of the Harry W. Woods gold mine, located on Twin Creek in the Fairbanks district, Alaska: Bachelor of Mining Engineering thesis, Univ. of Alaska, 38 p.
- Brooks, A. H., 1911, The mining industry in 1910: U.S. Geol. Survey Bull. 480, p. 21-42.
- _____, 1912, The mining industry in 1911: U.S. Geol. Survey Bull. 520, p. 17-44.
- _____, 1916, Antimony deposits of Alaska: U.S. Geol. Survey Bull. 649, p. 5-41.
- _____, 1916, The Alaskan mining industry in 1915: U.S. Geol. Survey Bull. 642, p. 16-71.
- Brown, J., 1962, Bedrock geology and ore deposits of the Pedro Dome area, Fairbanks Mining District, Alaska: M.S. thesis, Univ. of Alaska, 137 p.
- Byers, F. M., 1957, Tungsten deposits in the Fairbanks district, Alaska: U.S. Geol. Survey Bull. 1024-I, p. 179-216.
- Chapin, Theodore, 1914, Lode mining near Fairbanks: U.S. Geol. Survey Bull. 592, p. 321-355.
- _____, 1919, Mining in the Fairbanks district: U.S. Geol. Survey Bull. 692, p. 321-327.
- Ebbley, Norman, Jr., and Wright, W. S., 1948, Antimony deposits in Alaska: U.S. Bur. Mines Rept. Inv. 4173, p. 38.

- Forbes, R. B., and Brown, J. M., 1961, A preliminary map of the bedrock geology of the Fairbanks Mining District, Alaska: State of Alaska, Div. Mines and Minerals, Mineral Invest. Rept. No. 194-1.
- Hill, J. M., 1933, Lode deposits of the Fairbanks district, Alaska: U.S. Geol. Survey Bull. 849-B, p. 29-163.
- Joesting, H. R., 1942, Strategic mineral occurrences in interior Alaska: Terr. of Alaska Dept. of Mines, Pamph. No. 1, 46 p.
- _____, 1943, Supplement to Pamphlet No. 1--Strategic mineral occurrences in interior Alaska: Terr. of Alaska Dept. of Mines, Pamph. No. 2, 28 p.
- Killeen, P. L., and Mertie, J. B., Jr., 1951, Antimony ore in the Fairbanks district, Alaska: U.S. Geol. Survey open-file rept., 43 p.
- Maloney, William, 1916, Report of the Territorial mine inspector to the governor of Alaska for the year 1915, p. 14-15.
- Martin, G. C., 1920, The Alaskan mining industry in 1918: U.S. Geol. Survey Bull. 712, p. 11-52.
- McCombe, R. J., and Augustine, Grant, Jr., 1931, An investigation of the gold-bearing quartz veins of Ester Dome: Alaska Univ., College B.S. thesis, 49 p.
- Mertie, J. B., Jr., 1917, Lode mining in the Fairbanks district, Alaska: U.S. Geol. Survey Bull. 662, p. 403-424.
- Moffitt, F. H., and others, 1927, Mineral resources of Alaska, report on progress of investigations in 1925: U.S. Geol. Survey Bull. 792, p. 1-39.
- Péwé, T. L., Wahrhaftig, Clyde, and Weber, Florence, 1966, Geologic map of the Fairbanks quadrangle, Alaska: U.S. Geol. Survey Misc. Geol. Inv. Map I-455, scale 1:250,000.

- Prindle, L. M., 1910, Auriferous quartz veins of the Fairbanks district:
U.S. Geol. Survey Bull. 442, p. 210-229.
- Reed, Irving, 1939, Report on lode mining and development in the year
1938 in the Fairbanks district, Alaska: Terr. of Alaska Rept.,
26 p.
- Sandvik, P. O., and Hersey, A. J., 1951, Relations of structure to mineral
deposition at the Grant Mine, Ester Dome, Alaska: Alaska Univ.,
College, B. S. thesis, 28 p.
- Sandvik, P. O., 1964, Metal distribution in ore deposits of central
Alaska: Ph.D. thesis, Stanford Univ., 144 p.
- Smith, P. S., 1913, Lode mining near Fairbanks: U.S. Geol. Survey Bull.
542, p. 137-202.
- _____, 1913, Lode mining near Fairbanks: U.S. Geol. Survey Bull. 525,
p. 153-216.
- _____, 1926, Mineral industry of Alaska in 1924: U.S. Geol. Survey
Bull. 783, p. 1-30.
- _____, 1939, Mineral industry of Alaska in 1938: U.S. Geol. Survey
Bull. 917-A, p. 1-113.
- _____, 1942, Mineral industry of Alaska in 1940: U.S. Geol. Survey
Bull. 933-A, p. 1-102.
- _____, 1942, Occurrences of molybdenum minerals in Alaska: U.S. Geol.
Survey Bull. 926-C, p. 161-207.
- Spencer, W. W., and O'Neill, W. A., 1934, A survey of the gold quartz
veins on the north flank of Pedro Dome: Alaska Univ., College B.S.
thesis, 52 p.
- Thorne, R. L., Muir, N. M., Erickson, A. W., Thomas, B. I., Heide, H. E.,
and Wright, W. S., 1948, Tungsten deposits in Alaska: U.S. Bur.
Mines Rept. Inv. 4174, p. 1-30.

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

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

SHEET 1 OF 11 SHEETS, PEDRO DOME AREA

PEDRO DOME AREA

Map Number	Mine or Prospect Name	Claim(s) or Veins, Adits	Reference to some Past and Present Operators	Metals	Mineralogy	Geologic Notes	Attitudes			Reference(s)
							Veins	Faults, Crushed	Foliation, Bedding of Country Rock	
1	Egan and Egan prospect		J. J. Egan Dan Egan	Au	qtz.	Quartz veins and an 8-foot wide crushed zone of biotite schist and quartz.	N. 40° W., 45°-60° SW.			B 849-B, p. 155
2	Coffee Dome prospect (approx. location)			Au, Pb, Ag						Unpublished data
3	Charles claim mine			Au						B 523, p. 31 B 525, p. 146
4	Eureka claim mine (approx. location)			Au						B 523, p. 31 B 525, p. 156
5	McCarty claim prospect (Alder Creek)				qtz.	Quartz vein ranging from 13 inches to 13 feet wide, with mineralization near its margins or near horses of schist.	N. 40° E., vt.			B 442, p. 227 B 525, p. 156 B 592, p. 326
6	Queen claim prospect				qtz.	Faulted quartz vein.		N. 70° W., 33° NE		B 592, p. 326
7	Hi-Yu mine Crites and Feldman mine.		Hi-Yu Gold Mining Co. Keystone Mines, Inc.	Sb, Au, Ag Pb, Zn	qtz., sb, au, ga(Ag), as, py, sp, ox, se	Silicified schist in which closely spaced quartz veinlets constitute lodes. Relatively large bodies of medium-grade gold ore are possibly present if the mineralized wall rock can be mined.	N. 15° E., W. N. 65° W., 80°-85° S. E.-W., N(?) N. 75° W., S.			B 525, p. 156-159 B 849-B, p. 63, 70, 108-113 Killeen and Mertie (1951), p. 14, 27-38
8 a	Rob and Roy claim mine			Au, Sb	qtz., py, au, sb	A 30-foot wide shear zone in schist country rock which has been intruded by numerous granitic dikes.		N. 60° W.		B 649, p. 37-38 B 712, p. 39
b	Wolf claim prospect									
c	Savey claim prospect									
9	Governor claim prospect (approx. location)			Au		Vein associated with a auriferous fine-grained granite.	N. 80° W., vt.			B 525, p. 160
10	Whitehorse mine (approx. location)		Frank Bishop	Au, Sb, Pb	sb, ga, py	Post-auriferous vein, brecciated footwall mass cemented by stibnite and galena with associated porphyritic granite dikes.	N. 70° W.			B 525, p. 147, 160 B 849-B, p. 104 Killeen and Mertie (1951), p. 36-37
11	Plumbum prospect				qtz.	Iron-stained quartz vein 3 inches to 2 feet in thickness which conforms to the schist country rock strike, but dips more steeply.	N. 70° W., 70° S. E.-W., S. (st.)		E.-W., S. (low)	B 525, p. 177, 180-181 B 849-B, p. 104
12 a	Fairbanks Creek prospect			Au, Ag	qtz.	Mineralized quartz in graphitic quartzose schist. The country rock schist is reported to have yielded 60 oza Ag/ton.			E.-W.(?), N. (low)	B 525, p. 163
b	Schaefer prospect				qtz.	Flat-lying quartz stringer in decomposed country rock.				B 525, p. 163
13	Gilmore mill					Haulage adit driven N. 30° W.			E.-W.(?), 10°-15° N.*	B 849-B, p. 137, 138
14	Ohio mine	Ohio Mayflower Early Bird Gray Eagle	Connors and Stevens property	Au, Sb, Pb, Ag	qtz., sb, ga, ag, py, as	Auriferous quartz veins later than barren bull quartz deposits.	N. 70° W., 45° SW. E., 45° N.			B 525, p. 142-143 B 642, p. 408-409 B 849-B, p. 107-108
15	Mizpah mine	Black Joe Mizpah Mizpah vein	Charles Thompson	Au, Sb, Pb, Ag, Mn, W	qtz., au, sb, sh	Irregular gold-scheelite-quartz vein which ranges in thickness from 3 inches to 3 feet, and cuts the foliation of crushed quartzite schist.	N. 70°-90° W., 65° SW. E.-W., 75° S. N. 65° W., 70° S. N. 80° W., 80° S.		N. 20° W., 18° SW.	B 525, p. 162 B 642, p. 409-430, 499, 481 B 849-B, p. 107 B 592, p. 320 B 1024-1, p. 208 Killeen and Mertie (1951), p. 14

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

						SHEET 2 OF 11 SHEETS. PIEDRO DOME AREA		
16	Excelsior claim prospect		Sb, Pb, Ag(?)	sb, ga, as, lm	Hard quartzite schist and shiny graphitic schist country rock with a nearby light-gray, fine-grained granitic rock.	N. 30° E., SE.		B 525, p. 161 Killen and Mertie (1951), p. 37
17	McNeil shaft prospect (approx. location)		Sb, Pb	qtz., ga, ja, as	Light-colored quartz-mica schist country rock, with sulfide-bearing quartz vein.	N. 60° W., 70° S.		B 549, p. 47 B 562, p. 415 B 549-B, p. 104 Killen and Mertie (1951), p. 37
18	"Cross-vein" prospect (approx. location)		Sb, Pb, Ag(?)	sb, ga, as		N. 30° E., SE.(st.)		B 525, p. 161-162
19	Ferrault prospect	Minnie Aroostook	Au, Sb, Ag	qtz., au, sb, ag, ox, lm	Mineralized, parallel quartz veins in schist country rock with reticulating veinlets of stibnite in quartz and schist.	N. 80° W., 60° S.		B 592, p. 329 Killen and Mertie (1951), p. 35
20	Kellen prospect		Au, Sb	sb, ox, se	Quartz veins in blocky schistose quartzite.	E.-W.(?), 60° S.		B 525, p. 163-164
21 a	McCarty mine (located on the Henry Ford group)	McCarty group Marigold I.B. Harrietta Pioneer Willie Pennsylvania Free Gold Laughing Water Minnie Ha-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 Sb, ja, 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. 109-106 TDM 1, p. 10 Killen and Mertie (1951), p. 35
b	Dorothy claim prospect				Quartz stringers.			B 525, p. 167
c	Prospect adit(?)				Steeply dipping quartz vein.			B 525, p. 167
22	Henry Ford No. 3 mine	Henry Ford gp. Henry Ford 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., SE. (st.)		B 525, p. 164 B 549-B, p. 134-105
23 a	Pioneer vein mine	McCarty group	Au			N. 65° W., 60° S.		B 525, p. 165 B 549-B, p. 102
b	Pennsylvania vein mine	McCarty group	Au			N. 80° E., 60°-70° S.		B 549-B, p. 102
c	Antimony vein prospect	McCarty group	Sb					B 549-B, p. 102
24	Keystone Mines, Inc.	Willie claim of keystone group	Nordale property Ed Ebbert and BECS Corp. lessees	Au, Sb, Pb, Ag	sb, ja, 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

SHEET 3 OF 11 SHEETS, PEDRO DOME AREA

25	Homestake mine	Homestake gp Wolf Keystone Kawalita Fairbanks Hope Nordale vein Homestake vein Nordale adit	Homestake Mining Co. Nordale property Keystone Mines, Inc.	Au, Sb, Ag, Cu	qtz., au, sb, ga, py, cc, lm, cu-carbo.	Several quartz veins in black mica schist, with those portions of the veins which contain the copper minerals also having the highest gold content.	E.-W., 45° S. N. 60° W., 45° NE. N. 70° E., 40° S.*	Horizontal*	B 525, p. 168 B 592, p. 331-334 B 849-B, p. 101-102 Killeen and Mertie (1951), p. 14 Sandvik (1964), p. 119-120
26 a	Banner claim prospect			Au	au				B 525, p. 171
b	Rexall mine			Au	qtz., au	Intersecting sulfide-bearing quartz veins and narrow gash veins with some exceptionally rich gold ore.	N. 25° E., 25° NW. E.-W., 60° N.		B 525, p. 168-171 B 592, p. 334-335
27	Solomon prospect			Sb	qtz., sb	3 to 4-inch quartz vein carrying an appreciable amount of stibnite.	NE.		B 525, p. 171 B 592, p. 332 Killeen and Mertie (1951), p. 33
28	Vetter mine Vetter-Sheldon mine		Rudolph Vetter Adolph Vetter	Au, Sb, Cu, Zn, Ag, Pb	qtz., sb, ja, ox, au, as(?), frei(?), py(?)	Sulfide fissure vein deposit which transects flat-lying schistose quartzite and quartz-mica schist. Iron-stained, brecciated quartz and silicified schist horizons are associated with the vein material.	N. 80° W., 45° SW. N. 75° W., 60° SW. E.-W., S.	N. 40° E., 75° SE.	Sandvik (1964), p. 113-114 p. 125-126 Brown (1962), p. 117-121
29	Keystone Mines, Inc.	Kawalita claim of Keystone group Kawalita shaft	Nordale property	Au, Sb, Pb, Cu, Zn	qtz., ja, py, tet(?)	Quartz vein which transects flat-lying schistose quartzite, quartz-mica schist, and greenschist rocks.	N. 70° W., 30°-60° SW.	N. 80° W., 45° S.	
30	Chatham mine	Chatham No. 2 Fay Fay No. 2 Colby Colby No. 2	Chatham Mining Co.	Au, Sb, Ag, Cu, Zn	qtz., sb, py, ja(?), frei(?)	6-18 inch sulfide-bearing quartz vein with pronounced hanging wall, strike-slip slickensiding. This lode is cut by a 10-15 foot wide zone of shearing which contains kidneys and shoots of stibnite.	N. 60° W., 65°-80° SW. E., S. N. 70° W. N. 70° E.		B 525, p. 172-173 B 592, p. 335-336 B 649, p. 35-36 B 662, p. 415 B 849-B, p. 100-101 TDM 2, p. 8-9; Sandvik (1964), p. 109-110
31	Harris and Brown prospect			Sb, Pb	qtz., sb, ja(?), as(?), zin(?), py	Intensely brecciated quartz with the fragments cemented by a matrix of crushed quartz or stibnite.	N. 70° E., (st.)		B 525, p. 175-176 B 592, p. 332 Sandvik (1964), p. 105-106, p. 115-116, p. 117-118, p. 123-124
32	Quemboe Bros. prospect No. 1			Au, Sb	qtz., sb, py, as	Quartz fragments cemented by sulfides in soft schist country rock, with the hanging wall marked by a plane of movement.	N. 70° W., S.		B 525, p. 171-172 B 592, p. 332
33	Fursteneau prospect (approx. location)								B 592, p. 332
34 a	Quemboe Bros. prospect No. 2								B 596, p. 332
b	Sky High claim prospect (approx. location)			Au	au, lm	Decomposed brown, iron-stained material suggestive of an iron capping rather than a vein.			B 525, p. 175
35 a	Alaska (old Jupiter- Mars) mine		Jupiter-Mars Con- solidated Mining Co.	Au		Vein in possible slide rock.	E.-W., S. (low)		B 525, p. 175 B 849-B, p. 99-100
b	Foster-Hungerford mine			Au	qtz., lm	Iron-stained quartz and crushed schist.	N. 45° E., 50° SE.		B 849-B, p. 99-100
c	Nils Genki prospect			Au	qtz., ox, lm	10-12 inch wide crushed quartz vein stained with both iron and arsenic oxides.	N. 60° E.		B 849-B, p. 100
d	Alaska group prospect		F. M. Wackwitz		qtz., lm, ox	Intensely crushed and heavily iron-stained quartz vein.	E.-W., 30° N. N. 50°-60° E.		B 525, p. 175 B 849-B, p. 99-100
36	Empire claim group mine			Au					B 592, p. 332, 337 B 849-B, p. 75

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U. S. GEOLOGICAL SURVEY

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

SHEET 4 OF 11 SHEETS, PEDRO DOME AREA

37	Roughneck prospect									B 592, p. 332
38	Anna-Mary prospect			Pb, Ag	qtz., ga(Ag?), as(Ag), lm	1-6 foot wide crushed schist zone (hanging wall) with 1-2 feet of blue gouge on the footwall.		N. 70° W., 70° S.		B 849-B, p. 100
39	Pioneer mine	Pioneer Discovery North Star Blue Bell lode Blue Moon vein	Pioneer Quartz Mining Co.	Au, Sb, Zn	qtz., au, sb, sp, as, py	Two intersecting gold-quartz veins, with sulfides confined to the smaller vein which ranges from 4 inches to 2.5 feet in width. Blue Bell lode, located in 1903 was the first gold quartz claim in the Fairbanks district.				B 442, p. 226 B 525, p. 173-174 B 592, p. 330-337 B 849-B, p. 99
40	Union mine or I.X.L. mine		Fred C. Robinson	Au(?)						B 849-B p. 75 Reed (1939)
41	Scott Reese prospect				qtz.	320 foot adit intersected quartz veins and a prominent fault zone.		N. 60° E., 80° S.	E.-W., 30°-40° N.	B 849-B, p. 98-99
42 a	Butler and Petree prospect (B.P.)			Au, Sb, Pb, Zn	qtz., au, sb, ga, sp, py, as, tr, ch(?)	A shear zone which contains large quantities of sulfides, and tourmaline needles in association with quartz veins, pyrite, and arsenopyrite in mica-schist.	N. 85° E., 45° S.	NW., 45°-70° SW.*	NE.(?)*	B 442, p. 226-227 B 525, p. 176-177 B 849-B, p. 98 Sandvik (1964), p. 109-106 p. 107-108
b	Rex prospect									B 520, p. 31 B 525, p. 177 B 849-B, pl. 4
43	Cunningham prospect			Au, Sb	sb, as	A small vein which carries excessive amounts of arsenopyrite and stibnite.				B 592, p. 332
44	Sunrise claim prospect No. 1			Sb	qtz., sb, ox, lm	One foot thick lode composed of stibnite, rusty quartz, blue gouge, and lenses of schist.		E.-W., 25° S.		B 592, p. 337 Killeen and Mertie (1951), p. 31
45 a	Lyons prospect									B 592, p. 332
b	California prospect									B 592, p. 332
46	Cleary Hill mine Rhoads (Rhodes)-Hall mine	Free Gold Snowdrift New York Texas California Pauper's Dream Idaho Colorado Alabama $\frac{1}{2}$ interest in Wyoming claim and Wyoming fraction claim Redvein Colorado vein Rhoads vein	Cleary Hill Alaska Gold Mines Co. Cleary Hill Mines Co. Keystone Mines, Inc.	Au, Sb, Cu, Pb, Zn, Sn, W, Ag	qtz., au, sb, ga, sp, cov, ch, py, as, sh, ox, ja(?), fre(?), rob(?)	Crushed quartz veins cut foliation of schist country rock at high angles, and are complexly faulted by at least three fracture systems. Low angle northeast-striking faults show reverse movement. Scheelite is present as scattered grains and seams in wall rock which contains thin limestone beds.	N. 75° W., 55°-63° S. N. 75° W., low N. 75° W., to N. 65° E., 60° SE. N. 75° W., 55° S. N. 70°-80° W., 43°-60° S.	N. 70° W. to* N. 70° E. 5°-15° (reverse) N. 75° E., 45°-60° NW. N. 70° E., 80° NW. N. 70° W., 45° SW.		B 442, p. 225 B 480, p. 33 B 525, p. 177-180 B 649, p. 34-35 B 792, p. 12 B 849-B, p. 93-96 B 1024-1, p. 208-209 Sandvik (1964), p. 109-110, p. 113-114
47	Wyoming mine Wackwitz mine	Wyoming Wyoming Fraction Oklahoma V Goessmann Tanana Quartz and Hydraulic Mining Co. claim sp Goessmann vein Wyoming vein (vein No. 5) Wackwitz vein		Au, Sb, Ag(tr), Pb(tr), Mn, Mo, Be(tr), W	au, sb, py, sh, ca	A flat-lying thrust fault which produced 3 feet of crushed schist was intersected by raise A. Crushed-quartz veins cut silicified quartz-mica schist, quartzite and marble country rock. Scheelite occurs in gold-quartz veins and carbonate-replacement deposits.	N. 80° E., 50° S.* N. 80° W., 35° S.* N. 75° W. N.	NW., 45° W.*	N. 85° W., 27° N.	B 525, p. 180-182 B 662, p. 411 B 792, p. 12 B 849-B, p. 96-98 B 1024-1, p. 206-208
48	Bobbie claim prospect			Sb, Pb, Ag	qtz., sb, ga(Ag), py, ox, lm	One stringer composed of banded argentiferous galena near the wall rock contact, with large crystals of galena near the center of the vein.		N.-S., W.		B 525, p. 177 B 592, p. 332 B 649, p. 35



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

							SHEET 5 OF 11 SHEETS, PEDRO DOME AREA	
49	Hess and Burnett prospect No. 1 (questionable)			Sb	sb, py, lm, qtz.			B 592, p. 332, 339
50	Stepovich prospect No. 1							B 592, p. 332
51	Crosscut prospect							B 592, p. 332
52 a	Stibnite mine	Eldorado Mining and Milling Co.		Au, Pb, Ag, Sb	ga(Ag), py, sb	3 to 12 foot thick argentiferous galena-pyrite lode which conforms to the foliation of a fine-grained schistose quartzite.	N. 45° E., NW.(st.)	B 592, p. 332 B 662, p. 416 B 692, p. 324
b	Johnson and Martin prospect			Sb, W	sb	Massive stibnite enclosed in wide quartz zone. Scheelite on dump.		TDM 2, p. 7 B 1024-1, p. 210
53 a	Tolovana mine	Tolovana No. 1-No. 4 Scheuymerees No. 1-No. 4 Scheuymere No. 1-No. 4 Westonvitch Tolovana-Stibnite	Willow Creek-Tolovana Mining Co. Martin Pinkska	Au, Sb, Ag, W	qtz., au, sb, py, as, sh, ca, ox, ab	Biotite-quartz schists cut by sub-parallel quartz stringers, with some quartz offshoots parallel to schistosity. Scheelite present in gold-quartz ore.	E.-W., 60° S. N. 75° E. N. 80° E., 70° S.	E.-W., 15° N. B 442, p. 227 B 525, p. 183-185 B 592, p. 339-340 B 849-B, p. 68, 91-92 B 1024-1, p. 210
b	Hershberger, Beall, and Phipps prospect (approx. location)							B 480, p. 34
c	Tolovana vein prospect	Tolovana Mining Co.		Sb	qtz., sb, ox			B 525, p. 184-185 B 849-B, p. 92
54	Scheuymere prospect							B 525, p. 186 B 592, p. 332
55	Westonvitch prospect Chechako No. 1 prospect	Eldorado Mining and Milling Co.		Au, Sb, Pb, Ag, Zn, Cu	qtz., sb, ga(Ag), sp, py, as, ch	Crushed and crumpled biotite-quartz schist; marble and associated massive sulfide replacement deposits; and late quartz veinlets.	N.-S.(?)	B 525, p. 186-187 B 662, p. 416 B 849-B, p. 89-90
56	Moore-Sheldon prospect			Sb	qtz., sb, py, ox, lm	Banded, blue and white, sulfide-bearing marble and calc-schist truncated by an iron-stained crushed zone.	N. 55° E.	
57	Steil prospect			Sb	qtz., sb, py	Narrow quartz veins penetrating compact greenstones(?).		B 525, p. 187 B 592, p. 332
58	Newsboy Extension mine			Au	qtz.		N. 15° E., 77° W.	B 525, p. 189-190 B 849-B, p. 89
59	Newsboy mine			Au, Sb, Cl, Zn	qtz., au, sb, ch, sp, py, as	Silicified schist in which there are closely spaced quartz veinlets constituting lodes, which have been crushed subsequently by post-mineral movement.	N. 40° E., 73° NW.* N. 45°-48° E.,* 65°-80° NW. N. 79° E., 60° S.	E.-W. to N. 76° W., 57°-78° N. N. 60° W., 80° N. (reverse) E.-W., 32° S.
60	Hidden Treasure claim mine New Deal prospect	L. Goyett		Au	qtz., au	Nonpersistent quartz gash veins associated with an east-west-trending mineralized fault zone.		E.-W., vt.* B 592, p. 342-343
61	Dome View prospect Rock Run prospect Wackwitz Bros. prospect Last Chance prospect	Thompson No. 1 No. 2	Charles Wackwitz	Au	qtz., au	Brecciated, iron-stained quartz vein cutting southeast dipping foliation of quartz-mica schist, north of the quartz diorite-schist contact.	N. 40° E., 70° NW.*	N. 60° E., 15°-20° S. B 849-B, p. 83-84 Spencer and O'Neill (1934)
62	Mohawk mine Robinson (Rose) shaft Franklin mine Creighton mine	Heilig and Creighton L. Goyett Boyd and Shaw		Au, Sb, Osmiridium	qtz., au, sb, py, as	Two parallel quartz veins with gold concentrated in rusty fractures which penetrate the quartz.	N. 20° E., 60° W.* N. 30° E., 65° NW. N. 80° W., 35° SW. N. 10° E., W.	B 525, p. 190 B 542, p. 176 B 592, p. 342 B 662, p. 407 B 712, p. 40 B 849-B, p. 82 Killeen and Mertie (1951), p. 42 Spencer and O'Neill (1934)

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

							SHEET 6 OF 11 SHEETS, PEDRO DOME AREA		
63	Sunrise claim prospect No. 2			qtz.	Quartz stringers in schist.			B 592, p. 342	
64	Robinson vein prospect			Au(?)	qtz., as	10 inch wide crushed, iron-stained quartz vein with some sulfides near a parallel granitic dike.	N. 79° E., 60° S.	B 849-B, p. 88-89	
65	Mother Lode claim prospect No. 1 (Cleary Summit)			Au, Sb	qtz., sb, py, ox	Horizontal stibnite lode localized on a sericitized, granite porphyry dike-mica schist contact.		B 442, p. 221 B 649, p. 32-33	
66	Cornell prospect							B 525, p. 186 B 849-B, p. 91	
67	Emma claim mine	Katherine Emma	I. Overgaard property	Au	qtz., au	4-12 inch wide quartz vein in country rock partly composed of greenstone.	E.-W., 45°-60° S.	B 849-B, p. 90-91	
68	Jackson claim group mine and prospects	Silver King Your Jim Our Jim Big Jim Little Jim Vergil Wolverine	W. Jackson	Au, Sb, Pb, Ag	qtz., au, sb, <u>gs</u> (Ag), ja, py, as, ox	Quartz lodes parallel to mica-schist foliation and bordered by ribbons of quartz containing sulfide stringers.	N. 70° E. N. 45° E., SE. (low) N. 45° E., 45° SE. E.-W., 25° S.	E.-W., S. E.-W., 25° S. N. 75° W., vt. N. 45° E., 65° NE.* N. 75° W., 75° S.* N. 75° W., 65° S.* N. 75° W., S.* N. 40° W., 45° N.* (gouge) N. 55° E., 15° SE. N. 80° W., 70° S.	B 592, p. 338-339 B 662, p. 416-417 B 849-B, p. 92-93
69	Wackwitz mine (Cleary Summit)		F. M. Wackwitz	Au, Sb, Pb, <u>Ag</u> , Zn	qtz., sb, <u>gs</u> , ja	Quartz veins and mineralized zones in quartz-mica schist.			
70	Pinnacle prospect Cheyenne prospect (approx. location)			Au, Sb, Pb	qtz., sb, <u>gs</u> (Ag), py, as	Massive galena in schist country rock.		B 525, p. 182-183 B 542, p. 169	
71	White Elephant claim mine		H. F. Faulkner	Pb, <u>Ag</u>	qtz., <u>gs</u> (Ag), py, lm, cervsite, pb oxide	Flat-lying lenses of argentiferous galena which conform to the foliation of the schist country rock.		B 592, p. 348 B 849-B, p. 114	
72 a	Moonlight claim prospect			Au(?)	qtz.	Crushed quartz vein in porphyritic granite-quartzite schist country rock.	N. 75° E., 75° N.	B 525, p. 201 B 849-B, p. 114	
b	Sunlight claim prospect							B 525, p. 201	
c	Zimmerman prospect No. 1			Au, Ag		Sulfide-bearing material from dump.		B 525, p. 201	
73	Independence mine Harris mine Harry Woods mine Twin Lode mine	Independence Harris Moonlight Sunlight Twilight	Harry W. Woods	Au, Pb	qtz., au, <u>gs</u> , py, as	Quartz vein transects porphyritic granite and schist country rock, and becomes non-auriferous in schist. Gently dipping fault could be a thrust.	N. 82° W., vt.* N. 70° E., vt.	N. 75° W., 30° SW.* E.-W., vt. N. 40° W., 65° W.	B 642, p. 60-61 B 849-B, p. 114-115 Beistline (1939)
74 a	Goepfert prospect			Au	qtz., au	Granite country rock near the northern schist contact.		B 525, p. 201-202	
b	Whitman and Murray prospect			Au(?)				B 480, p. 35	
75 a	Rainbow mine	Rainbow David	Nirige and Hershberger	Au, Pb, Zn, W	qtz., au, <u>gs</u> , sp, py, as	Country rock is predominantly schist and quartzite, and the quartz vein clearly cuts fine-grained, non-porphyritic granite. Scheelite associated with gold-quartz ore.	E.-W., vt. N., 45° E.	N., 40° E. ¹	B 525, p. 198-200 B 592, p. 348 B 849-B, p. 74, 115 B 1024-I, p. 210
b	Hirschberger and Zimmerman mine			Au				B 520, p. 32	
76 a	Skoogy Creek prospect			Au	sb, as	50-foot wide mineralized zone of iron-stained, crushed schist and quartz.		B 849-B, p. 117	

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

Prospect No.	Prospect Name	Owner	Mineral(s)	Geology	Dip	Location	Reference
76 b	North Star prospect Big Lead prospect		Au, Sb	qtz., au			B 525, p. 202-204 B 525, p. 202-203 B 849-B, p. 116-117
77 a	Coeperfert Galena prospect (approx. location)		Pb	ga			B 525, p. 202
b	Galena prospect (approx. location)		Pb	ga			B 525, p. 202
78 a	Central Star prospect		Au				B 849-B, p. 118
b	Thompson and Burns prospect	Million Dollar Corp.	Au			N. 70° W.(?) 80° S.	B 849-B, p. 118
79 a	North Star Extension mine		<u>Au</u>	qtz.		N. 84° W., 85° S.	B 525, p. 202-203 B 849-B, p. 116-117
b	S. S. prospect		Au			N., 15° E ¹ N. 30° W., 45° SW.1	B 525, p. 202-203
80	David prospect Apex claim prospect		Au	au, as		N. 70° E., 35° S. E.-W.	B 525, p. 201 B 849-B, p. 115-116
81	Barnet Galena prospect		Sb, Pb, Ag	qtz., ja, ga(Ag), Pb ₃ Cl(PO ₄) ₃ , PbCo ₃ , lm			B 525, p. 349-350 B 849-B, p. 118
82	Egan prospect		W	sh			B 1024-I, p. 210 Brown (1962), p. 122-123
83	Barnet prospect		Au				B 525, p. 349
84	Zimmerman prospect No. 2		Au	qtz., as, ox			B 849-B, p. 119-119
85	Birch and Anderson mine Hoover claim mine		<u>Au</u> , Sb	qtz., sb, py, as			B 525, p. 198 B 849-B, p. 119-120
86	Robinson prospect			qtz., lm			B 525, p. 73 B 849-B, p. 81-82
87	May Florence claim prospect						B 525, p. 346
88	Silver Dollar claim prospect			qtz., lm			B 525, p. 346
89	Rowley-Schummeff prospect Nightingale prospect	Gregory Schummeff (Pete Smith) Don Rowley, Alaska Arctic Resources, Inc. John Nightingale	Sb, Pb, Ag	sb, ga(Ag), ox			B 525, p. 198
90 a	Silvertone mine Anderson-Wackwitz mine	Tury Anderson F. M. Wackwitz	<u>Au</u> , Sb, <u>Pb</u> , <u>Ag</u>	sb, ga(Ag), agl, cer			Brown (1962), p. 121-122
b	Basty Belle prospect	Basty Belle Mines, Inc. Mel Anderson Tury Anderson John Rasor Vic Rohrbaugh Warren Taylor	Au, Pb, Ag, W, Mo(?)	ga(Ag), py, ca, sh, po, mo(?)		N. 68° W., 70° SW.	

SHEET 7 OF 11 SHEETS, PEDRO DOME AREA

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

								SHEET 8 OF 11 SHEETS, PEDRO DOME AREA		
91	Verdin prospect (approx. location)		BH Verdin	W(?), Mo(?)	sh, po(?)	Scheelite-bearing placer concen- trates were possibly derived from intensely weathered bedrock.			TDM p. p. 84	
92	Freeman and Sharf prospect	Cottonwood group	Tury Anderson, F. M. Wackwitz	Au, Ag, Pb	pb(Ag)				B 925, p. 198	
93	Leslie prospect Old Glory prospect	Old Glory claim	Bob Leslie Frank Hawks Duane Franklin	Sb(tr), W, Mo, Mn	sh	3-foot zone of finely disseminated scheelite in quartz-mica schist and quartzite near a tongue of the Pedro Dome granodiorite.	N. 10° E., 25° E.		TDM p. p. 23 RI 4174, p. 24-27 B 1024-1, p. 206, p. 209-210	
94	Alaska Flyer claim prospect			Au	qtz.				B 925, p. 194	
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-mica schist.	E.-W., 60° N. N. 50° E., 50° N. N. 45° E., 40° SE. (approx.)	E.-W., 60° N.* N. 76° W., 80° N.* N. 70° W., 53° NE.*	E.-W., N. (low)	B 925, p. 100-194 B 849-B, p. 77-80 Spencer and O'Neill (1934)
96	Markovitch mine Hindenburg mine Ohio claim prospect		Poz and Contardi John Rogash	Au, Sb, Zn, Cu, Ag	qtz., sb, as, sp(?) ch(?) fre(?)	Iron- and manganese-stained crushed quartz carrying some stibnite and arsenopyrite.	NE.(?), 60° SE. E.-W., S.(?)		B 662, p. 415 TDM p. p. 9 B 849-B, p. 23 Killeen and Mertie (1951) RI 4173, p. 38 Sandvik (1964), p. 111-112.	
97	Spruce Creek prospect (approx. location)			Au					B 925, p. 190	
98	Mother Lode claim prospect No. 1 (Dome Creek)			Cu	py, as, ch	Graphitic limestone impregnated with disseminated sulfides.			B 925, p. 194	
99	Woods adit prospect on Franklin Lode	Alpha Mary Franklin Omega	M. E. Stevens Ed Stevens C. E. Bunnell	Au, Sb, Pb, Mn	qtz., au, as, py, sb, ga, la	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.		Spencer and O'Neill (1934)	
100	Thrift mine (approx. location)		Charles Thrift	Au					B 925, p. 196	
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.	N. 70° W., 45°-70° N.		B 925, p. 194-196 B 649, p. 30-31 B 849-B, p. 80-81 Killeen and Mertie (1951), p. 14 Sandvik (1964), p. 123-124	
102	Hoel Bros., Johnson, and Wilmer pros- pect (approx. location)			Au					B 920, p. 32 B 925, p. 196	
103	Gilmer mine Machano mine Helen W. claim mine		Howard Wilcox	Au, Sb, Ag	qtz., sb, ga, ca, ox	Auriferous (0.2 to 0.74 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., 80° S.	B 649, p. 29-30 TDM 1, p. 8, 10 Sandvik (1964), p. 121-122
104	Independence Creek prospect								B 849-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

								SHEET 9 OF 11 SHEETS, PEDRO DOME AREA	
106	Goodwin mine (Eagle Creek)		<u>Sb</u>	sb, py	Lenses of massive stibnite occurring in crushed schist.		N. 50° E., 45° S.	B 849-B, p. 157 Killeen and Mertie (1951), p. 22-23	
107	Treasure Creek prospect		Au(?)					B 925, p. 196	
108 a	Scrafford mine Black Eagle mine	R. C. Woods	Au, Sb, Pb, <u>Ag</u>	qtz., au, sb, ga, lm, ox, py(?)	Persistent 3-to 15-foot wide shear zone which cuts quartz-mica schist and contains iron-stained quartz and massive stibnite lodes.	E.-W., 50°-70° S. N. 80° E., 50°-70° S.	N. 60° E., NW.	B 649, p. 28-29 B 662, p. 415 B 849-B, p. 156-157 Killeen and Mertie (1951), p. 12, 21-22 Sandvik (1964), p. 121-122 p. 127-128	
b	Eagle Lode prospect	Kenneth E. O'Hara Arley Taylor Silver Ridge Mining Co. (lessee)	Sb	sb, ox	Stibnite in crushed quartz-mica schist.			B 925, p. 196 B 849-B, p. 156-157	
109	Antimony Ridge prospect	Silver Ridge Mining Co. (lessee)	Sb	sb	Shaft sunk on metallized breccia associated with a northeast-trending reverse fault in schistose quartzite and mica-schist.		N. 15° E.		
110	Banker Hill mine	Albert Goodwin	<u>Au</u>	qtz.	Quartz vein with mica schist hanging wall and quartz-mica schist foot wall.	N. 15° W., 70° E.		B 592, p. 345 B 849-B, p. 154	
111	Banker Hill prospect	Albert Goodwin	Au		50-foot wide crushed zone composed of brecciated, iron-stained schist.		N. 70° E., vt.	B 849-B, p. 153-154	
112	Janiksela prospect	John Janiksela	Sn(?)	qtz., mica, feldspar, cas	Quartz-feldspar-mica pegmatite along a mica-schist-graphite schist contact. Cassiterite has been reported from this locality.		E.-W.	B 849-B, p. 154	
113	White Association prospect		W	sh	Hornblende schist and mica schist impregnated with scheelite along foliation surfaces.	N. 75° E., 75° N. (shoot)		B 662, p. 421	
114	Ferrault and Murphy mine (approx. location)	American American Eagle	<u>Au</u>	qtz., au	Irregular mass of sulfide-bearing quartz (ranging in thickness 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. 50° E., 60° NW.		B 925, p. 166 B 592, p. 329-330	
115	Stepovich prospect			qtz., py, as, ox	Sulfide-bearing quartz vein with sulfide masses cemented by scorodite.	N. 70° E., 70° NW.		B 925, p. 166 B 592, p. 330	
116 a	Yellow Pup prospect	Elmer Stohl William Birklid M. S. Anderson Charles Murry Pat Savage	W	qtz., ol, ms, ap, gar, sh	Quartz pegmatite in a garnet tactite zone and quartz-scheelite veins in hornfelsed schist.			B 1024-1, p. 200-201	
b	Yellow Pup prospect	Alaska Metals Mining Co. (lessee) (surface and underground exploration) Mel S. Anderson William Birklid Elmer Stohl Maurice Hafn							
117	Edward Vogt prospect Monte Cristo prospect Melba Creek prospect	Granite Hill Monte Cristo	Au, Te, Bi, W	qtz., au, bi, bs, sh	5 inch thick native bismuth-bismuthinite-bearing gold quartz vein striking east which cuts a fine-grained biotite granite country rock; 2 other veins strike N. 5° W.	E.-W., vt. N. 5° W., 80° W.		B 592, p. 330-331 B 662, p. 412 B 849-B, p. 71	

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

						SHEET 13 OF 11 SHEETS, PEDRO DOME AREA		
118 a	Tungsten claim mine }	George Ewers Alaska Tungsten Mines Co.	W	qtz., px, hr(u), ap, tl, cl, bio, sh	Skarn and pegmatite deposits.	N. 60° E., 25° NW. (shoot)	N. 70° E., 33° N.	B 662, p. 419-421 B 849-B, p. 157-158 B 692, p. 325-326
b	Scheelite claim mine)							
c	Stepovich lode mine	Cleary Hill Mines Co. (lessee) Alaska Metals Mining Co. (surface and underground exploration)	Sb, Be(tr), Sn(tr), W, Mo, Mn	qtz., di, hr, ca, ep, clz, ol, anr, ms, bio, cl, ap, sph, ves, ax, gar, mel, ab, or, py, pyr	The major rock units are: (1) crystalline limestone (marble), (2) quartz pegmatite, (3) sili- cated mica schist, and (4) green amphibolite. The tungsten occurs as granular scheelite in irregu- lar masses which replace crystal- line 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	Lou Colbert Cleary Hill Mines Co. (lessee)	Sb(tr), Sn(tr), W, Mo, Mn	qtz., sh, ol, or, sph, ap, di, clz, ca, hr, cl, ep, bio, ms, gar	The major rock units are: (1) banded silicated schist, (2) pink garnet tactite, and (3) granular silicated 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. 199-200
119 a	Schubert prospect		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 silicated limestone.		N. 35°-40° E., vt.	B 1024-I, p. 201
b	Zimmerman prospect	Ptarmigan Franklin	J. F. Zimmerman	W	qtz., sh		N. 40° E., NW.	B 692, p. 327
120	Steele Creek prospect							B 525, p. 210
121	Rose Creek prospect			Sb	qtz., sb, or(?)		N. 30° E., 70° NW.	B 592, p. 346
122	William Brown prospect				Prospect near porphyritic granite-schist contact.			B 592, p. 345
123 a	Green Mt. claim prospect			Au	qtz., au			B 592, p. 345-346
b	Woodpecker claim prospect (approx. location)			Au	au			B 592, p. 346
124	Spruce Hen prospect			W, Mo	qtz., di, gar, olz, ves, ca, fl, sh, mo	Skarn deposit.	N. 50° E., 45° NW. N. 60° E. (tactite zones) N. 33° E., 40° NW.	B 662, p. 423 B 692, p. 326-327 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 692, p. 326 B 1024-I, p. 205-206
126	Tanana prospect			Au, W	qtz., au, sh	Quartz-scheelite-gold stringers in a 3-foot wide mineralized zone which conforms to the quartzite foliation.	N. 8° 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. 60° E., 20° NW. B 662, p. 424

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

No.	Name	Location	Type	Mineral	Description	Dip	Reference
128	Blossom prospect	Black Bear Blossom	W	qtz., sh	Pegmatite-type quartz-scheelite stringers penetrating quartz-biotite schist and porphyritic granite.		B 692, p. 327 B 1024-I p. 203-204
129	Peterson prospect	James Peterson		qtz.(?)	Prospect holes in barren schist.		B 849-B, p. 153
130	Ridge claim prospect	Frank Isaacson	Au			N. 50° E., S.	B 849-B, p. 153
131	Columbia Creek prospect		Au(?)	qtz., au(?)			B 525, p. 210
132	Engineer Creek prospect			qtz., as, lm	Arsenopyrite-bearing, iron-stained quartz.	N. 70° E.(?)	B 849-B, p. 153

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

Map Number	Mine or Prospect Name	Claim(s) or Veins, Adits	Reference to some Past and Present Operators	Metals	Mineralogy	Geologic Notes	ESTER DOME AREA			References
							Veins	Attitudes Faults, Crushed	Foliation, Bedding of Country Rock	
1	Grant mine No. 1	Grant vein	O. M. Grant	<u>Au</u>	qtz., ox, lm	Iron- and arsenic-stained quartz vein which is characterized by crushed and cemented silica. Gently dipping faults probably represent thrusts, and the associated fault gouge apparently maintained a "damming effect" on ascending metal-bearing solutions.	N. 45° E., 65° S.* (avg)	N., 25° W.*	N.(?), E. (st.)	B-84c B, p. 193-194 Sandvik and Hersey (1941)
2	Irishman mine	Irishman	O. M. Grant	<u>Au</u>	qtz.					B 896-A, p. 19 B 910, p. 25
3	Elmes mine Nickaloff mine Happy Creek mine		Nickaloff	<u>Au</u>	qtz.	Quartz veins in mica schist on dump.	N. 25°-30° E.(?), 75° SE. N. 15° E., 78°-82° W.			B 849-B, p. 197 McCombe and Augustine (1931) Reed (1939), p. 13 B 933, p. 23
4	Macomb prospect (approx. location)		H. N. Macomb		qtz.	Crushed schist, gouge, and quartz on dump.	NE., 60° SE.			B 849-B, p. 192
5	Mohawk mine	Bondholder Bondholder Extension Peg Leg Yellow Jacket Mohawk Mohawk No. 2 Mohawk No. 3 Liberty Spite Fraction Mohawk vein Bondholder vein	Tyndall Henderson McGinn McLaughlin	<u>Au</u> , <u>Sb</u> , <u>Pb</u> , <u>Zn</u>	qtz., au, sb, ga, sp, as	Crushed schist, gouge, and quartz with minor sulfides. A gently and eastward dipping "foliation-plane fault" in raise 12 and "decking" of seemingly normal metasedimentary strata of biotite-quartz schist suggest thrusting. Many horizontal or near-horizontal faults in tunnel on Yellow Jacket claim.	N. 30° E., 40°-70° S. N. 20° E., 62°-65° E.* N. 24° E., 45° NW.* N. 20° E., 40° NW. N. 10° E., 60° NW.	N. 30° W.* N. 10° W., 45° W.* N. 56° W., 30° S.* N. 35° W., 40°-50° NE.* N. 20° E., 40° W.* N. 15° W., 30° E.* N., 35° E.* N., 50° E.* N., 15° E.* N. 5° E., 47° E.* N. 58° E., 58° W.* N., 45° W.*	N. 20° W., 85° E. (joints)	B 592, p. 354-355 B 662, p. 413-414 McCombe and Augustine (1931) B 783, p. 8 B 849-B, p. 142-147 TDM 2, p. 11
6	Ryan mine	Ijim Eva Bina Montie Ryan No. 1 Ryan No. 2 Excelsior Gem	A. W. Conradt Fairbanks Exploration Bartholomae Oil Co.	<u>Au</u> , <u>Sb</u> , <u>Ag</u>	qtz., au, sb, as, ox	40-70 foot wide, northeast-trending zone of crushed schist and quartz veins, with evidence for post-mineral movement.	N. 25° E. N. 20°-25° E., 45°-70° E.	NW(?) 10°-15° ESE. N. 44° E., 64° E.* (?) N. 15° E., 50° SE.	B 520, p. 33 B 725, p. 27 B 662, p. 412 B 840-B, p. 135-136 B 917, p. 26 Reed (1939), p. 12	
7 a	McDonald mine Blue Bird No. 1	Blue Bird Blue Bird Fraction Combination McDonald	J. H. McDonald L. Morton	<u>Au</u>	qtz., au, sb, as, ox	Crushed schist, quartz and gouge-type deposits, except for one quartz vein associated with the contact between a quartz porphyry dike and a lime silicate horizon of the schist.	N. 35° W., 65° NE. N. 20° W., 45° E. N. 40° E., vt.	E.-W., 50° S. N.-S., 48° E. N. 60° E., 60° SW.		B 692, p. 323 B 792, p. 12 B 849-B, p. 133-139 B 910, p. 25 McCombe and Augustine (1931) Reed (1939), p. 9-13 TDM 1, p. 11
b	Crown Point claim prospect		George Comstock	<u>Au</u>	qtz., au	Narrow quartz veins in chloritic schist and clay.	N. 40° W., 65° SW.			B 592, p. 393
8	Little Eva mine	Little Eva Little Eva No. 2 Curlew No. 1 Curlew No. 2 Rose Comet	Stay property Sam Stay N. Borovich J. McEachern	<u>Au</u> , <u>Sb</u>	qtz., lm, au(?), as(?), sb(?)	Quartz veins in schist near a shattered, iron-stained, mineralized quartz porphyry intrusive.	N. 27° W., vt. N. 50° W., 60° NE. N. 65° W., 50° NE. N. 50° W., 50° NE. N. 15° W., 60°-70° E. ¹	N. 10°-51° E., 30°-70° NW.		B 849-B, p. 129-133 Reed (1939), p. 9 Sandvik (1964), p. 119-120 p. 127-128

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

								SHEET 2 OF 4 SHEETS. ENTER DOME AREA	
9	Billy Sunday mine	Red Hole vein Leah (Lean) Fraction	Smith Bros. E. A. Smith	Au, Sb	qtz., au, sb, as, sp	Crushed quartz and schist.	N. 9°-10° W., 45°-60° E.* N.-S., 60° E.* N. 10° E., 80° E.* N. 20° W., 45° W.* N.-S., 65° E.* N., 45° E., 55° SE.	N. 15° E., 15°- 30° E.* N. 20° E., 77° W.* N. 20° W., 45° W.*	B 592, p. 412-413 B 849-B, p. 159-160
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 592, p. 394 B 849-B, p. 139
b	Blue Bird No. 2		J. H. McDonald			Probably same zone as on Fair Chance claim.			B 849-B, p. 139
11	Seattle Fraction prospect (approx. location)		H. Jepsen J. Michaely						Reed (1939), p. 10
12	Little Flower mine		J. McCann B. Olsen H. Smith J. Norris	Au				N., 70° E.	Reed (1939), p. 11-12
13	St. Paul mine		McCann Thomas Mickley Hagel	Au, Sb	qtz., au, 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., 38° NW. N. 30° E., 45°-70° W.	(flat fault)	B 662, p. 409-413 B 849-B, p. 128-129 Reed (1939), p. 11
14	Camp Bird prospect		P. McLaughlin G. B. Stark M. Yakopatz					NNE., 85° W.	Reed (1939), p. 13-14
15	Clipper mine		McDonald Michley Hess Thomas McCann L. Lounsbury	Au, Sb	qtz., au, sb, ja(?)	Narrow auriferous quartz veins in biotite schist and quartzite.	N. 20° W., 85° W.	NW.(?), 10°-15°* NNE.	B 849-B, p. 150 Reed (1939), p. 14 Killeen and Merrill (1951), p. 12, 14, 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. 17° W., 70°-89° S.	B 649, p. 38-39 Killeen and Merrill (1951), p. 1
17	Wandering Jew mine		J. H. McDonald J. Michaely Thomas J. McCann A. Bernard C. Foss P. Delasto	Au	qtz., lm, ox	4 to 18 inch wide, sulfide-bearing quartz vein.	N.-S., 75°-80° E.	E.-W., 37° N. N. 30° W., 35°-40° NE.	B 849-B, p. 147 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.-S., 16°-20° E.*	B 849-B, p. 147-148
19	Bondholder mine	Bondholder vein	Hightover	Au	qtz., sb, as, ox, lm	Quartz vein in quartz-mica schist.	N. 24° E., 45° NW.		B 592, p. 354-355 B 849-B, p. 146-147
20	Prometheus prospect		E. Hess Hess and Thomas(?)	Au, Sb, Pb, Ag, Cu	qtz., sb, as, 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 592, p. 208 B 592, p. 354-355 B 849-B, p. 148 McCombe and Augustus (1931)
21	Big Blue prospect					Crushed schist, quartz, and gouge in fault zone.	N. 27° E.		B 849-B, p. 146
22	Lincoln prospect (approx. location)		P. McLaughlin J. Loberg G. Picotte	Au(?)		Grab samples from ore dump assay \$160.00 (Au?)/ton.			Reed (1939), p. 13
23	Dorothy and Dorice prospect Happy Creek prospect (approx. location)		G. Krutsch R. Cosgrove	Sb	sb	Stibnite float (maximum dimension 2 feet).	N. 40° E.		B 592, p. 354 TDM 1, p. 11

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

								SHEET 3 OF 4 SHEETS, SUTTER DOME AREA	
24	Royal Flush mine Adler mine (approx. location)		J. J. Cravey D. Adler	<u>Au</u>		208 tons of ore which averaged \$47.50/ton were produced from a 3 foot wide vein.	N. 42° E., 73° W.		B 911, p. 28 Reed (1939), p. 14
25	Sanford mine Lone Tree mine		J. H. Sanford	<u>Au</u>	qtz.	Quartz vein of variable thickness.	N. 40° E., 45° SE. N. 20° E., vt.		B 849-B, p. 149 McCombe and Augustine (1931) Reed (1939), p. 14
26	Grant mine No. 2		O. M. Grant	<u>Au, Sb</u>	qtz., sb, as	6 inch wide quartz vein in quartzite schist country rock.	N. 10° W., 65° E.		B 849-B, p. 121-122
27	Lepsoe prospect (approx. location)		H. Lepsoe		qtz.	20-foot wide quartz vein parallel to a porphyritic granite dike.	N. 40° W.		B 849-B, p. 192
28	Mother prospect Murphy prospect		Stipp Logan Murphy	<u>Au</u>	qtz., au, lm	Brecciated, iron-stained quartz and schist.	E.-W., vt.		B 849-B, p. 120-122
29	Rogach prospect								Reed (1939), p. 9
30	Blue Bonanza prospect	Blue Bonanza Midnight Sun		<u>Au, Sb, Pb, Ag, Cu</u>	qtz., sb, au, ga, py, tet, lm	Gold and sulfide-bearing quartz veins.			B 525, p. 196-197 B 592, p. 353
31	Flagler prospects(?)			<u>Au(?)</u>	qtz.	Large body of mineralized quartz.	N.-S., 45° E.		B 525, p. 197-198, 204 B 592, p. 352
32	Michley mine			<u>Au</u>	qtz.	Milky quartz vein in quartz-mica schist or gouge.	N.-S., E. or W. (st.) N. 4° W., 60° E.		B 849-B, p. 149
33	Farmer mine		W. Borden J. Loberg	<u>Au</u>	qtz., lm	Iron-stained quartz in quartz-mica schist, crushed bluish schist, and fault breccia.	N. 25° E., 52° W.*		B 849-B, p. 122-123 Reed (1939), p. 7
34	Farmer Lode prospect			<u>Au</u>	sb, au	Auriferous vein cuts schists and is in turn cut by many small faults.	N.-S., 40° E.		B 525, p. 198
35	Prospect(?) (approx. location)			<u>Sb</u>	qtz., sb	2-3 foot wide quartz-stibnite vein in quartz-mica schist.	N. 60° E.	N.-S., 30° W.	B 649, p. 41
36	McQueen mine Jenny C. claim prospect Black Diamond Lode		R. C. McQueen	<u>Sb</u>	qtz., sb, ox	Stibnite shoots and kidneys in iron-stained quartz.	N. 50°-70° W.(?) N. N. 30° E., E. (st.)(?) N. 40° W., 75° NE.		B 649, p. 40-41 B 692, p. 323 B 849-B, p. 157 McCombe and Augustine (1931) Killeen and Mertie (1951), p. 19-20
37	Barker and McQueen mine		W. Harp	<u>Au</u>	qtz.		NW., NE. (st.)		B 525, p. 209 B 592, p. 352-353
38	St. Jude prospect Cotton Blossom prospect	St. Jude No. 1 St. Jude No. 2	B. Olsen	<u>Au, Sb</u>	qtz., sb	Stibnite-bearing quartz stringers.	N. 35° W., 30° N.(?)		B 525, p. 208-209 B 592, p. 352 B 849-B, p. 123 Killeen and Mertie (1951), p. 20
39	Vuyovich mine (approx. location)		J. Vuyovich	<u>Au</u>	qtz., au, as	6 inch wide crushed and iron-stained quartz vein, in a dark micaceous schist and quartz-mica schist.	N. 50° E.		B 849-B, p. 128
40	Ready Bullion Creek mine (approx. location)		R. Caldwell F. Ciaccia J. Vukmir	<u>Au(?)</u>	qtz.	Several hundred tons of high-grade ore were mined from broken sections of veins and quartz masses in schist.			Reed (1939), p. 9-6
41	Silver Dollar vein	Silver Dollar vein	D. Makaich D. Radovich C. M. Hawkins	<u>Au</u>	qtz.	Quartz vein in altered schist crushed by post-mineral faulting.	N. 30° E., 68° SE.	NE.(?), 15° SSE.	B 849-B, p. 127-128 Reed (1939), p. 6-7
42	Hess and Thomas prospect				qtz.	Disseminated mineralization in small quartz veins and chloritic schist.			B 525, p. 208 B 849-B, p. 152
43	Tyndall and Pinn prospect			<u>Au(?)</u>	qtz.				B 525, p. 208

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

										SHEET 4 OF 4 SHEETS, ESTER DOME AREA	
44	Vuyovich prospect			Au	qtz., su, sb, as, lm	Quartz veinlets in northeast-trending zone of crushed, iron-stained schist.		N. 20° E., 85° E.	N. 20° E., 4° E.	B 849-B, p. 128	
45	Ready Billion mine	Geneva Mary Stay Hosanna Hudson Horseshoe Ready Billion Loche Fraction Stibnite No. 1 Stibnite No. 2 Borovich Borovich Fraction Borovich No. 2 Native Daughter South Pole North Pole Camp Sunflower Fraction Ready Billion vein	Eva Quartz Mining Co. G. B. Stevens N. Borovich Bartholomac Oil Co.	Au, Sb	qtz., su, sb, as, ja(?), ox, lm	Series of crushed quartz veins, schist, and gouge, with possible wide zone of low-grade material.	N. 48° W., 75° NE.* N. 15° E., 70° E.* N.-S., 80° W.*	N. 53° E., 78° S. N. 58° E., 50° S.* N. 53° E., 70° N.* N. 53° E., 70° S.* N. 53° E., 45° S.*	NE.(?) ENE.*	B 813, p. 17 B 849-B, p. 123-127 Reed (1930), p. 7	
46	Gale prospect			Au	qtz., lm	Auriferous, iron-stained quartz and weathered schist.				B 525, p. 204, 206	
47	Koegley claim prospect			Au	qtz.	Mineralized schist cut by small quartz stringers.				B 525, p. 204, 206	
48	Hudson mine			Au	qtz., su, py, lm	Quartz stringer stockwork in chloritic schist and quartzite.	N. 20° E., 45° NW. N. 45° E., 50° NW.	N. 70° W., 60° SW.		B 525, p. 203-206 B 592, p. 350-352 B 849-B, p. 123	
49	Maloney prospect		W. Maloney	Sb	qtz., sb, as		ENE., SE.(?)			B 849-B, p. 123	
50	Social Security prospect		J. Morris Bartholomac Oil Co.	Au						Reed (1930), p. 7-8	
51	Lookout mine		D. E. Turnbarga A. A. Turnbarga	Au		Northeast-trending vein cut by 6 foot wide auriferous leucocratic dike.	N. 10° E., vt. N. 20° W.			Reed (1930), p. 8	

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

Symbols used: < = less than; > = greater than
 Spectrographic analyses by K. C. Watts
 1/ Gold analyzed by spectrographic methods; analyses by K. C. Watts
 2/ Gold analyzed by atomic absorption DCR-1, cold method; analyses by E. Martinez, T. Roemer, and R. Tripp
 3/ Gold analyzed by fire assay; analyses by W. D. Goss, J. E. Troxel, and C. Huffman
 4/ Metallized rock
 5/ Rock

CLEARY CREEK AREA

Loc-ality	Field No.	Tag No.	Megascopic Description of Sample	Mg %	Fe %	Ca %	Ti %	Au ^{1/} ppm	Au ^{2/} ppm	Au ^{3/} ppm	As ppm	Sb ppm	W ppm	V ppm	Mo ppm	Sn ppm	Ni ppm	Cr ppm	In ppm	Ba ppm	Sr ppm	B ppm	Pb ppm	Mn ppm	Bi ppm	Be ppm	Nb ppm	Y ppm	Cd ppm	Cu ppm	Zr ppm	Ag ppm	Ia ppm	Zn ppm	Se ppm	Co ppm	1	2
29	66AF-28	ADS-585	Stibnite-arsenopyrite-pyrite-quartz (tails).	.5	20	1	.2	<.0	<.02		10000	10000	<50	15	<5	70	30	15		150	<100	300	20000	2000	<10	<1	10	50	<20	70	15	200	<20	1000	<5	15	Y	
29	29	586	Stibnite-arsenopyrite-jamesonite in yellow-stained schistose rock (tails).	.5	5	.1	.7	<.0	<.02		10000	10000	<50	100	<5	<10	15	50		500	<100	150	5000	10	<10	3	20	20	<20	1000	500	50	10	<200	15	<5	Y	
29	30	587	Bournonite(?)-hematite-pyrite-sphalerite-quartz (tails).	.1	2	.05	.01	<.0	<.02		500	>10000	<50	<10	<5	200	10	<5		30	<100	70	20000	100	<10	<1	<10	<10	500	1000	<10	500	30	>10000	<5	<5	Y	
28	31	588	Yellow cervantite-stibiconite crust on bull quartz (trench).	.05	.2	<.05	.003	<.0	.66		1500	2000	<50	<10	<5	<10	<5	<5		<10	<100	50	1500	<10	<10	<1	<10	<10	<20	20	<10	20	<20	<200	<5	<5	Y	
24	32	589	Jamesonite-(?)-ore (pit face).	.02	5	<.05	.003	<.0	.02		>10000	>10000	<50	70	<5	>1000	<5	<5		70	<100	<10	>20000	10	<10	<1	<10	<10	300	2000	<10	2000	500	7000	<5	<5	Y	
24	33	590	Altered pelitic country rock near (< 6 inches) massive sulfide-sulfosalt ore (pit face).	.5	10	.05	.7	<.0	2.93	3.9	>10000	>10000	<50	100	<5	700	<5	70		300	<100	700	>20000	10	<10	1	30	30	<20	300	300	1000	200	<200	10	<5	Y	
24	34	591	Jamesonite-(?)-ore with associated green silicic material (ore pile).	.05	10	<.05	.003	<.0	1.16		>10000	>10000	<50	10	<5	1000	<5	10		100	<100	200	>20000	15	<10	<1	10	<10	<20	700	<10	500	<20	700	<5	<5	Y	
24	35	592	Galena-arsenopyrite-stibnite-(?) in altered quartz-mica schist (trench).	.05	2	<.05	.003	<.0	.03		10000	>10000	<50	10	<5	>1000	<5	<5		30	<100	20	>20000	<10	<10	<1	<10	<10	500	700	<10	3000	70	5000	<5	<5	Y	
24	36	593	Yellow-stained massive stibnite (ore pile).	.02	<.05	.15	.002	<.0	<.02		1500	>10000	<50	15	<5	<10	<5	<5		10	<100	<10	1500	<10	<10	<1	<10	<10	<20	300	<10	5	100	<200	<5	<5	Y	
24	37	594	Brown-stained stibnite-galena (ore pile).	.05	.2	.1	.07	<.0	<.02		3000	>10000	<50	15	<5	<10	<5	<5		70	<100	<10	10000	<10	<10	<1	<10	<10	<20	300	200	10	200	<200	<5	<5	Y	
28	76	631	Foliated jamesonite (ore pile).	.02	1	.05	.003	<.0	<.02		3000	>10000	<50	<10	<5	700	<5	<5		20	<100	<10	>20000	50	20	<1	<10	<10	<20	700	<10	3000	100	2000	<5	<5	Y	
7	77	632	Pyrite-arsenopyrite-galena-sphalerite-stibnite (tails).	.2	15	.2	.2	<.0	.03		>10000	>10000	<50	30	<5	200	10	10		150	<100	>2000	>20000	1500	<10	<1	<10	150	<20	2000	50	300	<20	>10000	5	5	Y	
7	78	633	Galena-sphalerite-stibnite (tails).	.2	1	1	.3	<.0	<.02		3000	>10000	<50	70	<5	<10	15	10		200	100	70	10000	50	<10	2	<10	20	<20	200	150	70	100	1500	<5	<5	Y	
F-81	81	636	Metallized minerals in limonite-stained quartz breccia (trench).	.05	10	.7	.003	<.0	2.3	2.7	>10000	>10000	<50	<10	<5	>1000	15	5		700	<100	100	>20000	700	<10	<1	20	<10	100	1000	<10	5000	<20	300	<5	<5	Y	
30	87	641	Stibnite-arsenopyrite-limonite (adit tails).	.7	3	.05	.7	<.0	.4		>10000	>10000	150	100	<5	<10	15	100		1500	<100	500	500	15	<10	3	20	20	<20	500	200	10	200	500	20	5	Y	
30	88	642	Stibnite-quartz (adit tails).	<.02	1	.15	.002	<.0	<.02		7000	>10000	<50	<10	<5	<10	<5	<5		20	<100	<10	100	700	<10	<1	<10	<10	<20	20	<10	<5	70	<20	<5	<5	Y	
30	89	643	Pyrite-galena-sphalerite (adit tails).	.2	5	10	.5	<.0	<.02		>10000	>10000	<50	50	<5	50	20	70		200	200	150	15000	>5000	<10	2	20	20	300	500	500	200	100	>10000	15	5	Y	
30	90	644	Jamesonite-arsenopyrite(?) (adit tails).	.7	3	.15	.3	<.0	<.02		>10000	>10000	<50	30	<5	>1000	10	10		20	<100	>2000	>20000	3000	500	2	20	10	<20	2000	150	500	100	1000	10	<5	Y	

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

		CLEARLY CREEK AREA--Continued																																					
Loc- ality	Field No.	Tag No.	Megascopic Description of Sample	Mg %	Fe %	Ca %	Ti %	Au ^{1/} ppm	Au ^{2/} ppm	Au ^{3/} ppm	As ppm	Sb ppm	W ppm	V ppm	Mo ppm	Sn ppm	Ni ppm	Cr ppm	In ppm	Ba ppm	Sr ppm	B ppm	Pb ppm	Mn ppm	Bi ppm	Be ppm	Nb ppm	Y ppm	Cl ppm	Cu ppm	Zr ppm	Ag ppm	La ppm	Ce ppm	Sc ppm	Co ppm	4/	5/	
28	66AF-91	ADS-645	Yellowish-tan alteration surface on stibnite (ore pile).	.05	.1	1.5	.015	<.0	<.02		1500	>10000	<50	10	<5	<.0	<5	<5		20	<100	10	1000	200	<.0	<.0	<.0	20	<20	300	<.0	20	100	100	<5	<5	X		
28	92	646	Yellowish-tan alteration surface on stibnite-arsenopyrite(?) (trench).	.1	1.5	5	.01	<.0	<.02		>10000	>10000	<50	10	<5	<.0	50	<5		30	700	30	1500	50	<.0	<.0	<.0	50	<20	300	<.0	50	100	<100	<5	<5	X		
28	93	647	Stibnite (pit).	.1	5	1.5	.3	<.0	<.02		2000	>10000	<50	15	<5	<.0	150	10		100	<100	50	1000	500	<.0	<.0	20	100	<20	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	<.0	<5	<.0	5	<5		70	<100	20	100	100	<.0	<.0	10	<.0	<20	200	<.0	10	70	<100	<5	<5	X		
55	97	651	Massive pyrite-sphalerite-arsenopyrite-galena (tails).	.5	20	2	.015	<.0	.2		>10000	2000	<50	<.0	<5	100	15	10		30	<100	50	>20000	1000	<.0	<.0	10	<.0	<20	700	<.0	500	<20	>10000	<5	<5	X		
55	98	652	Massive pyrite-sphalerite-arsenopyrite-galena (tails).	1	15	7	.01	<.0	.1		7000	3000	<50	<.0	<5	150	<5	10		30	<100	30	20000	5000	<.0	<.0	10	10	<20	2000	<.0	200	<20	10000	<5	<5	X		
53	99	653	Disaggregated iron-stained quartz (1 foot channel).	.05	2	.05	.05	<.0	.9		2000	150	<50	10	<5	<.0	<5	<5		70	<100	20	50	20	<.0	<.0	<.0	<.0	<20	15	<.0	<.5	<20	200	<5	<5	X		
F-82	82	637	Pyrite-bearing calc-schist (dredge tails).	7	10	20	.3	<.0	.03		3000	3000	<50	100	<5	100	15	70		500	1000	150	10000	3000	<.0	1	20	20	<20	50	200	30	<200	10	10	X			
F-83	83	638	Garnetiferous mica schist with pyrite parallel to foliation (dredge tails).	.7	5	1.5	.7	<.0	<.02		2000	2000	<50	150	<5	30	20	100		500	<100	150	3000	200	<.0	2	30	20	<20	100	300	7	50	<200	30	20	X		
F-84	84	639	Limonite-carbonate-quartz rock (dredge tails).	.7	5	20	.2	<.0	<.02		200	200	<50	30	<5	<.0	15	30		100	100	20	300	3000	<.0	2	10	15	<20	15	10	1	<20	<100	5	5	X		
F-85	85	640	Green chert-like material (dredge tails).	1	7	5	.5	<.0	.02		<200	<100	<50	200	<5	<.0	30	70		150	<100	20	70	2000	<.0	2	10	15	<20	150	20	<.5	<20	<100	20	10	X		
95	94	648	Sulfide-bearing blue and white banded marble (trench).	5	2	>20	.02	<.0	2		<200	10000	<50	10	<5	<.0	10	10		50	1000	<.0	500	75000	<.0	<.0	<.0	<.0	<20	20	<.0	20	<20	<200	<5	<5	X		
96	96	650	Gray schistose marble (trench).	2	1.5	>20	.03	<.0	<.02		<200	2000	<50	15	<5	<.0	5	10		50	1500	20	300	1500	<.0	<.0	<.0	<.0	<20	20	<.0	<.5	<20	<200	<5	<5	X		
F-100	100	654	Garnetiferous amphibolite with disseminated pyrite (dredge tails).	10	10	5	1	<.0	<.02		<200	<100	<50	500	<5	<.0	300	2000		70	200	1000	100	5000	<.0	<.0	30	10	<20	150	150	.5	50	300	50	70	X		
F-101	101	655	Dense, garnetiferous amphibolite with minor disseminated sulfides (dredge tails).	3	10	5	1	<.0	<.02		<200	<100	<50	300	<5	<.0	50	500		70	700	10	70	5000	<.0	<.0	30	10	<20	300	150	<.5	50	200	20	50	X		
F-102	102	656	Tourmaline-bearing amphibolite (dredge tails).	10	10	5	.7	<.0	<.02		<200	<100	<50	300	<5	<.0	200	1000		100	700	>2000	100	3000	<.0	1	30	10	<20	20	100	<.5	<20	200	20	50	X		
F-103	103	657	Schistose garnetiferous amphibolite (dredge tails).	10	10	5	1	<.0	<.02		<200	<100	<50	500	<5	<.0	150	1000		700	700	<.0	50	3000	<.0	<.0	70	10	<20	150	200	<.5	30	<200	30	70	X		
55	66AQ-28		Massive sulfides.	<.02	20	.05	.005	<.0	.6		>10000	1500	<50	<.0	<5	<.0	<5	<5		30	<100	100	15000	15	<.0	<.0	10	<.0	<20	30	<.0	150	<20	1000	<5	<5	X		
C-33	66AQ-33		Mica schist with reddish-orange coating (dredge tails).	.7	3	2	.5	<.0	.03		<200	<100	<50	100	<5	<.0	20	30		70	<100	70	100	700	<.0	<.0	<.0	10	<20	20	150	<.5	<20	<200	10	10	X		

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

		PEDRO DOME AREA																																				
Loc-ality	Field No.	Tag No.	Megascopic Description of Sample	Mg %	Fe %	Ca %	Ti %	Au ^{1/} ppm	Au ^{2/} ppm	Au ^{3/} ppm	As ppm	Sb ppm	W ppm	V ppm	Mo ppm	Sn ppm	Ni ppm	Cr ppm	In ppm	Ba ppm	Sr ppm	B ppm	Pb ppm	Mn ppm	Bi ppm	Be ppm	Nb ppm	Y ppm	Cd ppm	Cu ppm	Zr ppm	Ag ppm	La ppm	Zn ppm	Se ppm	Co ppm	4/	5/
89	66AF-41	ADS-597	Argentiferous galena with cerussite crust (ore pile).	.05	<.05	<.05	<.001	<.01	<.02		<200	>10000	<50	<.01	200	1000	<5	<5		30	200	<.01	>20000	<.01	30	<.01	<.01	<.01	200	300	<.01	5000	<.01	<200	<5	<5		X
89	42	598	Argentiferous galena-(?) (ore pile).	.07	.2	.15	<.001	<.01	<.02		>10000	5000	<50	2000	>2000	1000	<5	70		70	300	<.01	>20000	<.01	200	<.01	<.01	<.01	<.01	500	<.01	>5000	<.01	<200	<5	<5		X
90	48	604	Yellowish-brown stained galena-quartz rock (old adit tails).	.5	5	.05	.5	<.01	6.1	8.7	>10000	2000	<50	100	<5	300	<5	<5		500	<.01	200	>20000	30	<.01	5	20	<.01	<.01	200	150	200	<.01	<200	15	<5		X
89	43	599	Altered medium-grained granodiorite (pit).	1.5	5	2	.7	<.01	<.02		200	<.01	<50	150	100	<.01	10	20		3000	500	<.01	15000	700	<.01	2	20	20	<.01	15	200	100	20	<200	20	<5		X
89	44	600	Yellow-brown medium grained granodiorite with dark brown slickensided surfaces (pit).	.7	5	.2	.5	<.01	<.02		1500	<.01	<50	200	70	150	5	20		300	<.01	<.01	10000	2000	<.01	2	20	20	<.01	70	200	50	50	2000	20	<5		X
89	45	601	Brown crust containing minor galena from intensely altered rock (pit).	.02	20	1	.002	<.01	20.5	17.1	>10000	2000	<50	700	>2000	50	<5	15		2000	700	<.01	<20000	200	<.01	<.01	10	<.01	500	500	<.01	500	<.01	3000	<5	<5		X
90	46	602	Altered medium-grained diorite with disseminated pyrite, quartz veinlets, and calcite (adit tails).	1	3	20	1	<.01	.1		1000	1000	<50	200	70	30	15	70		700	200	200	10000	5000	<.01	1	10	20	<.01	50	200	30	<.01	<200	50	20		Y
90	47	603	Medium-grained granodiorite (adit tails).	2	5	3	1	<.01	<.02		<200	<.01	<50	200	<5	<.01	15	100		2000	500	30	200	2000	<.01	1	20	20	<.01	30	500	<.01	<200	50	20		Y	
F-65	65	620	Medium-grained granodiorite (scree).	1.5	1.0	5	.7	<.01	.2		500	150	100	150	<5	<.01	5	10		2000	700	10	150	3000	<.01	1	10	20	<.01	20	150	<.01	20	<200	20	20		Y
F-66	66	621	Medium-grained granodiorite (scree).	1.5	1.0	5	.7	<.01	.02		<200	<.01	150	150	<5	<.01	5	15		2000	700	30	100	1000	<.01	1	20	20	<.01	10	200	<.01	50	<200	20	20		Y
F-67	67	622	Medium-grained granodiorite (scree).	1	1.0	7	1	<.01	<.02		<200	<.01	<50	150	<5	<.01	5	15		2000	700	20	100	1500	<.01	1	20	50	<.01	20	300	<.01	30	<200	20	20		Y
F-68	68	623	Garnetiferous, sulfide-bearing amphibolite.	2	20	20	.3	<.01	<.02		<200	100	<50	70	<5	<.01	50	100		50	300	15	50	5000	<.01	2	10	20	<.01	150	300	<.01	<200	20	20		Y	
F-69	69	624	Silicic, garnetiferous amphibolite with disseminated sulfides.	1	10	20	.7	<.01	<.02		<200	<.01	<50	150	<5	<.01	20	150		150	700	10	70	3000	<.01	1	20	50	<.01	30	200	<.01	70	<200	50	15		X
F-70	70	625	Medium-grained quartz monzonite (scree).	.7	3	2	.3	<.01	<.02		<200	<.01	<50	70	<5	<.01	<5	<5		1500	300	<.01	50	1000	<.01	5	20	50	<.01	7	150	<.01	<200	10	<5		Y	
F-71	71	626	Porphyritic quartz monzonite (scree).	.7	3	.7	.3	<.01	<.02		<200	<.01	<50	70	<5	<.01	5	<5		1000	300	<.01	30	1000	<.01	3	20	30	<.01	<5	100	<.01	100	<200	10	<5		Y
F-72	72	627	Porphyritic aplite with quartz veinlets and light-green alteration masses (scree).	.1	1	.2	.07	<.01	.6		<200	<.01	<50	10	<5	<.01	10	<5		500	<.01	<.01	100	500	<.01	3	20	50	<.01	15	100	<.01	<200	<5	<5		X	
F-73	73	628	Brown-stained schistose quartzite with quartz-pyrite (limonite) veinlets (scree).	.2	5	.05	.3	<.01	1.6		5000	<.01	<50	100	<5	<.01	30	20		300	<.01	150	150	700	<.01	2	20	20	<.01	30	700	<.01	20	<200	10	20		X
73	74		Porphyritic quartz monzonite with quartz veinlets (tails).	.2	1.5	.7	.15	<.01	.06		200	100	<50	20	<5	<.01	5	<5		1000	500	<.01	70	500	<.01	5	20	100	<.01	5	50	<.01	<200	5	<5		X	
90	75	630	Medium-grained granodiorite with green slickensided surfaces and calcite veinlets (150 foot adit face tails).	1	5	5	.7	<.01	<.02		<200	<.01	<50	150	<5	<.01	15	70		1500	500	10	150	2000	<.01	1	10	10	<.01	70	200	<.01	20	<200	50	10		X

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

Loc-ality	Field No.	Tag No.	Megascopic Description of Sample	GILMORE DOME AREA--Continued																												4/	5/				
				Mg %	Fe %	Ca %	Ti %	Au ^{1/} ppm	Au ^{2/} ppm	Au ^{3/} ppm	As ppm	Sb ppm	W ppm	V ppm	Mo ppm	Sn ppm	Ni ppm	Cr ppm	In ppm	Ba ppm	Sr ppm	B ppm	Pb ppm	Mn ppm	Bi ppm	Be ppm	Nb ppm	Y ppm	Cd ppm	Cu ppm	Zr ppm			Ag ppm	La ppm	Zn ppm	Se ppm
F-15	15	572	Quartz-mica schist with bands of actinolite and chlorite (trench).	2	7	10	.3	<1.0	<.02		<200	<100	<50	100	<5	<1.0	<5	<5		700	300	<10	10	3000	<1.0	2	70	20	<20	7	300	<.5	100	<200	5	5	X
F-16	16	573	Actinolite-quartz gneiss (trench).	2	5	7	.5	<1.0	<.02		<200	<100	<50	70	<5	<1.0	<5	<5		1000	300	<10	30	3000	<1.0	1	30	15	<20	15	300	<.5	70	<200	5	5	X
F-17	17	574	Biotite-quartz schist with K-spar augen (trench).	1	5	2	.5	<1.0	<.02		<200	<100	<50	70	<5	<1.0	<5	<5		1000	700	<10	20	2000	<1.0	1	50	15	<20	7	200	<.5	100	<200	5	5	X
F-18	18	575	Brown-stained porphyritic quartz monzonite (scree).	.5	5	1.5	.3	<1.0	<.02		<200	<100	<50	30	<5	<1.0	<5	<5		700	300	<10	200	2000	<1.0	3	20	50	<20	50	200	<.5	<20	<200	5	<5	X
F-19	19	576	Coarse-grained quartz monzonite (borrow pit).	.3	3	1.5	.15	<1.0	<.02		<200	<100	<50	10	<5	<1.0	<5	<5		500	100	<10	150	700	<1.0	10	30	30	<20	15	15	<.5	<20	<200	<5	<5	X
F-20	20	577	Limonite-stained sericite-quartz schist (borrow pit).	.2	7	<.5	.7	<1.0	.055		<200	<100	<50	150	5	<1.0	<5	<5		700	<100	30	30	700	<1.0	2	50	10	<20	20	200	<.5	50	200	5	<5	X
F-21	21	578	Coarse-grained quartz monzonite (scree).	.7	7	3	.3	<1.0	<.02		<200	<100	<50	30	<5	<1.0	<5	<5		500	200	10	150	3000	<1.0	2	20	10	<20	5	50	<.5	20	<200	5	<5	X
F-22	22	579	Brown-stained porphyritic quartz monzonite (scree).	1	7	3	.7	<1.0	<.02		<200	<100	<50	30	<5	<1.0	<5	<5		500	300	10	200	3000	<1.0	5	15	20	<20	30	50	<.5	<20	<200	5	<5	X
F-23	23	580	Argillized porphyritic quartz monzonite.	.5	5	.1	.5	<1.0	<.02		<200	<100	<50	30	<5	<1.0	<5	<5		300	<100	10	100	1000	<1.0	2	20	20	<20	<5	150	<.5	<20	<200	5	5	X
F-24	24	581	Yellow-stained porphyritic quartz monzonite and gnis.	.2	3	.2	.3	<1.0	<.02		<200	<100	<50	70	<5	<1.0	<5	<5		700	<100	<10	200	500	<1.0	2	20	50	<20	15	150	<.5	50	<200	5	<5	X
F-25	25	582	Altered medium-grained quartz monzonite with blebs of soft, green, clay-like material (scree).	.3	5	.15	.3	<1.0	<.02		<200	<100	<50	70	<5	<1.0	<5	<5		300	<100	<10	100	1500	<1.0	2	20	10	<20	2	100	<.5	<20	<200	5	<5	X
F-26	26	583	Schistose garnet-mica-quartz hornfels (scree).	1	10	.2	.7	<1.0	<.02		<200	<100	<50	150	<5	<1.0	<5	100		500	<100	50	50	700	<1.0	5	20	30	<20	150	200	<.5	70	<200	15	10	X
116	27	584	Green, silicic hornfels (tails).	1	5	10	.5	<1.0	<.02		<200	<100	<50	70	<5	<1.0	70	150		300	700	30	50	5000	<1.0	1	15	30	<20	10	150	<.5	100	<200	20	50	X
F-39	39	595	Medium-grained quartz monzonite (float).	1	3	2	.3	<1.0	<.02		<200	10000	<50	50	<5	<1.0	10	<5		3000	1000	10	5000	500	<1.0	3	20	<10	<20	20	150	2	<20	<200	<5	<5	X
F-40	40	596	Porphyritic quartz monzonite (float).	.7	5	2	.5	<1.0	<.02		<200	3000	<50	100	<5	<1.0	20	15		2000	1500	<10	700	1500	<1.0	5	20	30	<20	20	150	<.5	70	<200	<5	<5	X
TREASURE CREEK AREA																																					
109	66AF-106	659	Altered, sulfide-bearing breccia (tails)	2	10	5	.5	<1.0	<.02		<200	<100	<50	200	<5	<1.0	10	70		1000	700	<10	20	2000	<1.0	1	10	15	<20	15	50	<.5	20	<200	20	20	X
108	107	660	Yellow-stained quartz-stibnite (?) (tails).	.05	1	.2	.1	<1.0	<.02		5000	<10000	<50	15	<5	<1.0	<5	<5		50	<100	15	150	15	<1.0	<1	<1.0	<10	<20	50	<10	<.5	10	<200	<5	<5	X
108	108	661	Yellow-stained quartz (?) rock (tails).	.1	3	.2	.2	<1.0	7.4	11.1	>10000	>10000	<50	15	<5	<1.0	5	15		100	150	100	<10	50	<1.0	<1	<1.0	10	<20	15	100	<.5	<20	<200	<5	<5	X
ESTER DOME AREA																																					
36	62	618	Stibnite crystals (>2 inches length) in massive, brown-stained quartzite.	.2	.2	1	.01	<1.0	<.02		1000	>10000	<50	10	<5	<1.0	5	<5		70	<100	<10	200	20	<1.0	<1	<1.0	10	<20	100	15	<.5	100	<200	<5	<5	X

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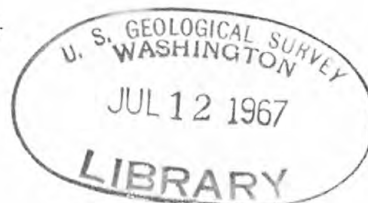
1. Sample size preconcentration requirements for meaningful analysis of gold, by H. Edward Clifton. 1 chart. 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska 99501; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; 602 Thomas Bldg., Dallas, Texas 75202. Copy from which reproduction can be made at private expense is available in the San Francisco office, shown above.

2. Complete Bouguer gravity anomaly map of the Bearpaw Mountains and vicinity, Montana, by Donald L. Peterson and William L. Rambo. 15 p. tabular text. Montana College of Mineral Science and Technology, Butte, Mont. 59701. Copy from which reproduction can be made at private expense is available in the Spokane office shown in introductory paragraph above.

3. Principal facts for gravity stations in the Bearpaw Mountains and vicinity, Montana, by Donald L. Peterson and William L. Rambo. Montana College of Mineral Science and Technology, Butte, Mont. 59701.

✓ 4. Locations and descriptions of lode mines and prospects in the Fairbanks district, Alaska, by Robert M. Chapman and Robert L. Foster. 28 p., 1 fig., 2 tables. Brooks Bldg., College, Alaska 99735; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. Mines and Minerals, 5th Floor, Goldstein Bldg., Juneau 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504; 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska 99401; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012; 602 Thomas Bldg., Dallas, Texas 75202. Copy from which reproduction can be made at private expense is available in the Alaskan Branch, USGS, 345 Middlefield Rd., Menlo Park, Calif. 94025.

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