

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-409
SHEET 2 OF 2

LODE DEPOSITS

PLACER DEPOSITS AND OCCURRENCES

REFERENCES

Number	Name and principal reference(s)	Commodity ^{1/} , ^{2/}
1	Thorpe: Ray, J. C., 1933, p. 228; Ray, R. G., 1954, p. 78-79	Au
2	Wheeler, Betts & Dimmick: Jasper, 1962, p. 79-81	Au
3	Lucky Shot: Ray, J. C., 1933, p. 204-212; Ray, R. G., 1954, p. 83 War Baby: Ray, J. C., 1933, p. 212-213; Ray, R. G., 1954, p. 83 Willow Creek Mines: Smith, 1930a, p. 46	Au Au Cu
4	Panhandle: Chapin, 1921, p. 202 Wolverine: Jasper, 1962, p. 75-79, 84	Au Cu, Au
5	Kempf (Golden Top): Smith, 1934, p. 16-17	Au
6	Golden Light: Chapin, 1921, p. 202	Au
7	Thorpe: Smith, 1932, p. 19 Unnamed occurrence: Capps and Tuck, 1935, p. 110	Au Cu, Au, Ag
8	Brassel Bros.: Chapin, 1921, p. 202	Au
9	Gold Bullion: Capps, 1915, p. 66-69; Ray, J. C., 1933, p. 213-214; Ray, R. G., 1954, p. 83	Cu, Au, Hg
10	Mammoth: Capps, 1915, p. 71-72	Au
11	Kelly-Willow: Ray, R. G., 1954, p. 80-82	Au
12	Independence: Ray, J. C., 1933, p. 215-216; Stoll, 1944; Ray, R. G., 1954, p. 58-65 Jap: Brooks, 1925, p. 41	Au, Pb, W, Zn Au
13	Martin: Ray, J. C., 1933, p. 215-216; Ray, R. G., 1954, p. 83	Au
14	Bluebird: Capps, 1919, p. 185 Gold Cord: Ray, J. C., 1933, p. 217-220; Thorne and others, 1948, p. 35 High Grade: Ray, J. C., 1933, p. 220; Ray, R. G., 1954, p. 76	Au Cu, Au, Pb, W, Zn Au
15	Marion Twin: Ray, R. G., 1954, p. 76 Newman & Miller: Brooks, 1925, p. 42 Schroff-O'Neil: Ray, R. G., 1954, p. 75-76	Au, Pb Au Cu, Au, Pb, Zn
16	Bronson & France: Jasper, 1962, p. 79 Dixie: Chapin, 1921, p. 202-203 Galena-Gold: Capps, 1919, p. 186 Little Willie (Holland): Capps and Tuck, 1935, p. 109-110; Ray, R. G., 1954, p. 82-83	Au Cu Cu, Au, Pb Cu, Au, Mo
17	Smith: Capps and Tuck, 1935, p. 110	Au
18	Lane: Ray, R. G., 1954, p. 82	Au
19	Bartholf-Isaacs: Capps, 1915, p. 76 Fern: Ray, J. C., 1933, p. 222-226; Thorne and others, 1948, p. 35; Ray, R. G., 1954, p. 65-68 Little Gem: Capps, 1919, p. 185-186 Marmot: Chapin, 1921, p. 204 Talkeetna: Ray, J. C., 1933, p. 222-223; Smith, 1942, p. 188-189; Ray, R. G., 1954, p. 83	Au Au, Pb, W Au Au Au, Mo
20	Grimes: Capps, 1915, p. 77 Mohawk: Capps, 1919, p. 183 Reed & Fisk: Katz, 1911, p. 148 Webfoot: Ray, R. G., 1954, p. 78	Au Au Au Au
21	Arch: Capps, 1915, p. 70-71	Au
22	Rae-Wallace: Capps, 1915, p. 74-75; Smith, 1932, p. 19	Au
23	Rae: Capps, 1915, p. 77 San Juan: Capps, 1915, p. 77-78	Au Au
24	Stiles (Shough): Capps, 1915, p. 75-76; Ray, J. C., 1933, p. 226-227	Cu, Au, Pb
25	Mabel: Ray, J. C., 1933, p. 220-222; Ray, R. G., 1954, p. 68-70	Cu, Au, Pb, Mo(?), Zn
26	Gold Quartz: Capps, 1916b, p. 200	Au
27	Archangel: Capps, 1916b, p. 200 LeRoi: Chapin, 1921, p. 205	Au Au
28	Opal: Brooks, 1925, p. 42	Au
29	Homebuilder: Brooks, 1925, p. 42 Idamar: Chapin, 1921, p. 205 McCoy: Capps, 1915, p. 76	Au Au Au

^{1/} Symbols - Cu, copper; Au, gold; Pb, lead; Hg, mercury; Mo, molybdenum; W, tungsten; Zn, zinc.

^{2/} Symbol underlined indicates recorded production.

Number	Name and principal reference(s)	Commodity ^{1/} , ^{2/}
30	Mary Ann: Chapin, 1921, p. 205	Au
31	Snowbird: Ray, R. G., 1954, p. 73-75 Snow King: Chapin, 1921, p. 205	Au Au
32	Mogul: Capps, 1915, p. 74	Au
33	Reed Creek: Jasper, 1967, p. 3	Cu, Mo
34	Maverick: Chapin, 1921, p. 205	Au
35	Lonesome (Gold Mint): Ray, J. C., 1933, p. 227-228; Ray, R. G., 1954, p. 70-73	Au, Ag
36	Lone Tree Gulch: Jasper, 1967, p. 3	Cu
37	Moose Creek (Northwestern): Capps, 1919, p. 183-184; Chapin, 1921, p. 206	Cu, Au, Ni, Ag, Zn
38	Myers: Landes, 1927, p. 71	Cu, Pb, Zn
39	Mount Eklutna: Rose, 1966, p. 11	Cr
40	Thunderbird Creek: Rose, 1966, p. 11	Cr
41	West Twin Peak: Rose, 1966, p. 11-12	Cr
42	Highway: Bjorklund and Wright, 1948; Rose, 1966, p. 9-10, 13	Cr, Cu, Au
43	Pioneer Creek: Bjorklund and Wright, 1948, p. 2-5; Rose, 1966, p. 9-11	Cr
44	Eklutna Tunnel: Rose, 1966, p. 13	Hg
45	Jim Creek: Landes, 1927, p. 69-70	Cu, Ag, Zn
46	Unnamed occurrence: Clark, 1972, p. 5	Cr
47	Knik River, Glacier Fork: Richter, 1967, p. 25	Cu, Au, Ag
48	Sheep Mountain: Martin and Mertie, 1914, p. 281-282	Cu
49	Rusaw Creek: Jasper, 1965, p. 4	Cu
50	Peters Creek: Capps, 1916a, p. 192-193	Cu, Au, Pb
51	Eagle River: Park, 1933, p. 419-420	Cu, Au, Pb, Ag, Zn
52	Bahrenberg: Park, 1933, p. 417-418	Au
53	Agostino: Park, 1933, p. 413-417 Brenner: Park, 1933, p. 419 Gunnysack: Smith, 1930b, p. 18 Monarch-Jewel: Park, 1933, p. 418-419	Cu, Au, Pb, Mo, Ag, Zn Au Au Au, Ag
54	Black & Hogan: Johnson, 1914, p. 228	Au, Pb, Zn
55	Barry Arm: Grant and Higgins, 1910, p. 78; Johnson, 1918, p. 189 Capitol Hill: Martin, 1920, p. 33	Sb, Au(?) Cu, Au, Ag
56	Reiter & Olson: Johnson, 1914, p. 228	Sb, Cu, Au, Pb
57	Mitchell & Myers: Johnson, 1914, p. 227-228	Au, Pb
58	Paymaster: Johnson, 1914, p. 225	Au
59	Simonton & Mills: Johnson, 1914, p. 226	Cu, Au, Pb
60	Walters, Brasslin & Atkinson: Johnson, 1914, p. 225-226	Au, Pb, Zn
61	Last Chance No. 2: Johnson, 1914, p. 227	Au
62	Cameron: Johnson, 1914, p. 226-227	Au
63	Griset & Benson: Johnson, 1914, p. 227	Au
64	Cann & Minor: Johnson, 1914, p. 218	Au
65	Miners River (Bay): Grant and Higgins, 1910, p. 77; Moffit and Fellows, 1950, p. 77	Cu
66	Wells Bay: Moffit and Fellows, 1950, p. 77	Cu
67	Globe: Johnson, 1919, p. 146 Long Bay: Moffit and Fellows, 1950, p. 77	Cu Cu
^{1/}	Symbols - Cr, chromite; Cu, copper; Au, gold; Pb, lead; Hg, mercury; Mo, molybdenum; Ni, nickel; Ag, silver; Zn, zinc; Sb, antimony.	
^{2/}	Symbol underlined indicates recorded production.	

Number	Name and principal reference(s)	Commodity ^{1/} , ^{3/}
68	Willow Creek: Paige and Knopf, 1907b, p. 66-67; Capps, 1915, p. 55	Au
69	Grubstake Gulch: Capps, 1915, p. 52-54 Willow Creek: Capps, 1915, p. 52-54; Jasper, 1962, p. 81-82	Au Au
70-72	Craigie Creek: Jasper, 1967, p. 23	W
73	Upper Willow Creek: Jasper, 1967, p. 25	Cu
74	Upper Willow Creek: Jasper, 1967, p. 26	Cu, Au
75	Hatcher Creek: Jasper, 1967, p. 26	Au
76	Fishhook Creek: Capps, 1915, p. 55	Au
77	Little Susitna River: Jasper, 1967, p. 28-29	Cu
78-81	Little Susitna River: Jasper, 1967, p. 27-29	W
82-83	Little Susitna River: Jasper, 1967, p. 28-29	Cu
84	Little Susitna River: Jasper, 1967, p. 27-29	W
85	Reed Creek: Jasper, 1967, p. 26	W
86	Chickaloon Creek (River): Mendenhall, 1900, p. 322	Au
87	Schoonoven (Boulder) Creek: Mendenhall, 1900, p. 322	Au
88	Alfred Creek: Martin and Mertie, 1914, p. 278-279, 281; Brooks, 1925, p. 30	Au, Pt
89	South Creek: Martin and Mertie, 1914, p. 278	Au
90	Poorman Creek: Chapin, 1918, p. 62	Au
91	McRoberts Creek: Jasper, 1967, p. 30	Hg, W
92	Unnamed occurrence: Jasper, 1967, p. 31	Pb
93	Jim Lake: Jasper, 1967, p. 31	W
94	Fall Creek: Richter, 1967, p. 16	W
95	Metal Creek: Richter, 1967, p. 2, 8-10, 15-16	Au, Pt
96	Metal Creek: Richter, 1967, p. 2, 8-10, 15-16	Au, Ag, W
97	Metal Creek: Richter, 1967, p. 8-10, 15-16	W
98	Metal Creek: Richter, 1967, p. 8-10, 15-16	Au
99	Metal Creek: Richter, 1967, p. 2, 8-10, 15-16	Au, Pt
100	Metal Creek: Richter, 1967, p. 8-10, 15-16	Au
101	Metal Creek: Richter, 1967, p. 8-10, 15-16	W
102	Metal Creek: Richter, 1967, p. 8-10, 15-16	Au
103-104	Metal Creek: Richter, 1967, p. 8-10, 15-16	W
105	Metal Creek: Richter, 1967, p. 8-10, 15-16	Au
106-109	Metal Creek: Richter, 1967, p. 8-10, 15-16	W
110-113	Knik River, Glacier Fork: Richter, 1967, p. 15-16	W
114	Potter Creek: Jasper, 1967, p. 31	Mo
115	Crow Creek: Moffit, 1906, p. 41-43; Paige and Knopf, 1907a, p. 121-122	Au
116	Crow Creek: Moffit, 1906, p. 40-43; Capps, 1916a, p. 175-185	Au
	Placer deposits not shown on map because occurrences could not be located closely enough to plot:	
	Bird Creek: Capps, 1916a, p. 187	Au
	Marshall Creek: Mendenhall, 1900, p. 321-322	Au
	Peters Creek: Rose, 1966, p. 13	Au
	Rainbow Creek: Smith, 1939, p. 43	Au
	Raven Creek: Park, 1933, p. 406	Au
	Wet Gulch: Ray, R. G., 1954, p. 83	Au
^{1/}	Symbols - Cu, copper; Au, gold; Pb, lead; Hg, mercury; Mo, molybdenum; Pt, platinum-group metals; W, tungsten.	
^{3/}	Gold has been produced from the listed placers.	

Bjorklund, Stuart, and Wright, W. S., 1948, Investigation of Knik Valley chromite deposits, Palmer, Alaska: U.S. Bur. Mines Rept. Inv. 4356, 5 p.

Brooks, A. H., 1925, Alaska's mineral resources and production, 1923: U.S. Geol. Survey Bull. 773, p. 3-52.

Capps, S. R., 1915, The Willow Creek district, Alaska: U.S. Geol. Survey Bull. 607, 86 p.

_____, 1916a, The Turnagain-Knik region: U.S. Geol. Survey Bull. 642, p. 147-194.

_____, 1916b, Gold mining in the Willow Creek district: U.S. Geol. Survey Bull. 642, p. 195-200.

_____, 1919, Gold lode mining in the Willow Creek district: U.S. Geol. Survey Bull. 692, p. 177-186.

Capps, S. R., and Tuck, Ralph, 1935, The Willow Creek-Kashwitna district, Alaska: U.S. Geol. Survey Bull. 864-B, p. 95-113.

Chapin, Theodore, 1918, The Nelchina-Susitna region, Alaska: U.S. Geol. Survey Bull. 668, 67 p.

_____, 1921, Lode developments in the Willow Creek district: U.S. Geol. Survey Bull. 714, p. 201-206.

Clark, S. H. B., 1972, The Wolverine complex, a newly discovered layered ultramafic body in the western Chugach Mountains, Alaska: U.S. Geol. Survey open-file report, 10 p.

Grant, U. S., and Higgins, D. F., 1910, Reconnaissance of the geology and mineral resources of Prince William Sound, Alaska: U.S. Geol. Survey Bull. 443, 89 p.

Jasper, M. W., 1962, Willow Creek gold district activity, Anchorage quadrangle: Alaska Div. Mines and Minerals Rept. for year 1962, p. 75-84.

_____, 1965, Geochemical investigations of selected areas in southcentral Alaska, 1964: Alaska Div. Mines and Minerals Geochem. Rept. 4, 31 p.

_____, 1967, Geochemical investigations, Willow Creek southerly to Kenai Lake region, south central Alaska: Alaska Div. Mines and Minerals Geochem. Rept. 14, 47 p.

Johnson, B. L., 1914, The Port Wells gold-lode district: U.S. Geol. Survey Bull. 592, p. 195-236.

_____, 1918, Mining on Prince William Sound: U.S. Geol. Survey Bull. 662, p. 183-192.

_____, 1919, Mining on Prince William Sound: U.S. Geol. Survey Bull. 692, p. 143-151.

Katz, F. J., 1911, A reconnaissance of the Willow Creek gold region: U.S. Geol. Survey Bull. 480, p. 139-152.

Landes, K. K., 1927, Geology of the Knik-Matanuska district, Alaska: U.S. Geol. Survey Bull. 792, p. 51-72.

Martin, G. C., 1920, The Alaskan mining industry in 1918: U.S. Geol. Survey Bull. 712, p. 11-52.

Martin, G. C., and Mertie, J. B., Jr., 1914, Mineral resources of the upper Matanuska and Nelchina valleys: U.S. Geol. Survey Bull. 592, p. 273-299.

Mendenhall, W. C., 1900, A reconnaissance from Resurrection Bay to the Tanana River, Alaska, in 1898: U.S. Geol. Survey 20th Ann. Rept., pt. 7, p. 265-340.

Moffit, F. H., 1906, Gold fields of the Turnagain Arm region: U.S. Geol. Survey Bull. 277, p. 7-52.

Moffit, F. H., and Fellows, R. E., 1950, Copper deposits of the Prince William Sound district, Alaska: U.S. Geol. Survey Bull. 963-B, p. 47-80.

Paige, Sidney, and Knopf, Adolph, 1907a, Reconnaissance in the Matanuska and Talkeetna basins, Alaska, with notes on the placers of the adjacent regions: U.S. Geol. Survey Bull. 314, p. 104-125.

_____, 1907b, Geologic reconnaissance in the Matanuska and Talkeetna basins, Alaska: U.S. Geol. Survey Bull. 327, 71 p.

Park, C. F., Jr., 1933, The Girdwood district, Alaska: U.S. Geol. Survey Bull. 849-G, p. 381-424.

Ray, J. C., 1933, The Willow Creek gold-lode district, Alaska: U.S. Geol. Survey Bull. 849-C, p. 165-229.

Ray, R. G., 1954, Geology and ore deposits of the Willow Creek mining district, Alaska: U.S. Geol. Survey Bull. 1004, 86 p.

Rose, A. W., 1966, Geology of chromite-bearing ultramafic rocks near Eklutna, Anchorage quadrangle, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 18, 20 p.

Richter, D. H., 1967, Geological and geochemical investigations in the Metal Creek area, Chugach Mountains, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 25, 17 p.

Smith, P. S., 1930a, Mineral industry of Alaska in 1927: U.S. Geol. Survey Bull. 810, p. 1-64.

_____, 1930b, Mineral industry of Alaska in 1928: U.S. Geol. Survey Bull. 813, p. 1-72.

Smith, P. S., 1932, Mineral industry of Alaska in 1929: U.S. Geol. Survey Bull. 824, p. 1-81.

_____, 1934, Mineral industry of Alaska in 1932: U.S. Geol. Survey Bull. 857-A, p. 1-91.

_____, 1939, Mineral industry of Alaska in 1937: U.S. Geol. Survey Bull. 910-A, p. 1-113.

_____, 1942, Occurrences of molybdenum minerals in Alaska: U.S. Geol. Survey Bull. 926-C, p. 161-210.

Stoll, W. C., 1944, Relations of structure to mineral deposition at the Independence mine, Alaska: U.S. Geol. Survey Bull. 933-C, p. 201-217.

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, 22 p.