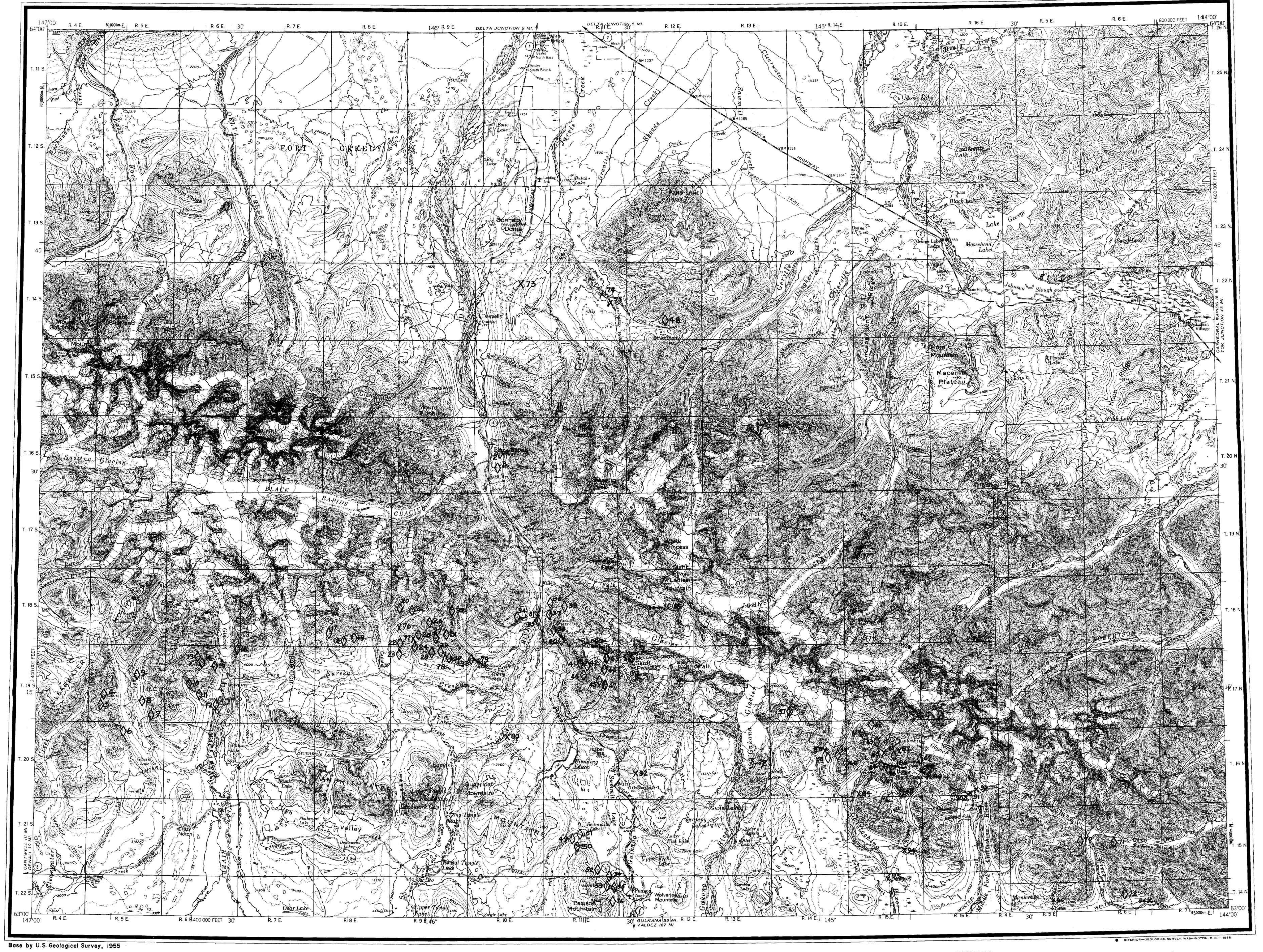
Mt. Hayes

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MT HAYES

MISCELLANEOUS FIELD STUDIES
MAP MF – 414



Base by U.S. Geological Survey, 1955

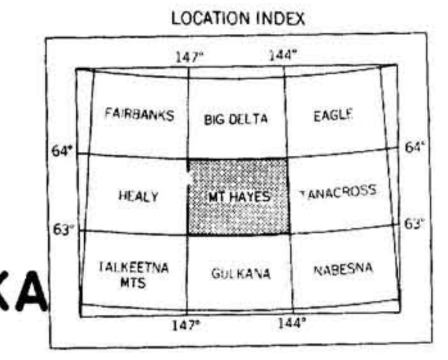
SCALE 1:250000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

LOCATION INDEX



EXPLANATION

◊48 Lode deposit } numbers refer to accompanying list
X82 / 79 Placer deposit } numbers refer to accompanying list

METALLIC MINERAL RESOURCES MAP OF THE MOUNT HAYES QUADRANGLE, ALASKA

Compiled by Edward H. Cobb, 1972

For sale by U. S. Geological Survey, price $.50

☆ GPO 792-971

LODE DEPOSITS

Number	Name and principal reference(s)	Commodity 1/
1	Ptarmigan Creek: Smith, 1942a, p. 194-195	Au, Mo
2	Gunnysack Creek: Joesting, 1942, p. 12; Moffit, 1942, p. 144	Sb, Au
3	Black Rapids: Ebbley and Wright, 1948, p. 35-36; Moffit, 1954, p. 207-208	Sb
4	Unnamed occurrence: Kaufman, 1964, p. 7-8, 12	Cu, Mo
5	Unnamed occurrence: Smith, Trible and Stein, 1972, p. 4-5	Cu
6	Unnamed occurrence: Kaufman, 1964, p. 7	Cu
7	Unnamed occurrence: Kaufman, 1964, p. 7, 12	Cu
8	Unnamed occurrence: Saunders, 1961, p. 38	Cu
9	Maclaren River, West Fork: Saunders, 1961, p. 39; Kaufman, 1964, p. 8, 13	Cu, Fe
10-11	Unnamed occurrences: Kaufman, 1964, p. 8	Cu
12	Hidden Lake: Kaufman, 1964, p. 8	Cu
13	Unnamed occurrence: Kaufman, 1964, p. 9-10	Cu
14	Unnamed occurrence: Kaufman, 1964, p. 9	Cu
15	Kathleen-Margaret (K-M): Chapman and Saunders, 1954; Kaufman, 1964, p. 4-5, 8-9, 13	Cu, Au, Ag
16	Maclaren Glacier: Rose, 1966, p. 20-21	Fe
17	Landslide Creek: Rose, 1966, p. 20	Cr
18	Unnamed occurrence: Rose, 1966, p. 21	Cu
19	Unnamed occurrence: Rose, 1966, p. 20	Cu, Ag
20	Unnamed occurrence: Rose, 1965, p. 31, 33	Cu, Au, Ni, Ag
21	Unnamed occurrence: Rose, 1965, p. 30	Cu
22	Green Wonder: Rose, 1965, p. 29	Cr, Pb, Ni, Zn
23	Unnamed occurrence: Rose, 1965, p. 29, 33	Cu
24	Unnamed occurrence: Rose, 1965, p. 29	Cu
25	Unnamed occurrence: Rose, 1965, p. 29-30, 33	Cu, Au, Pb, Ni, Ag, Zn
26	Unnamed occurrence: Rose, 1965, p. 30, 33	Cu
27	Eastern Star: Rose, 1965, p. 27, 33 Moneta-Porcupine Mining Co.: Rose, 1965, p. 27-38, 33 Pioneer: Rose, 1965, p. 27, 33 Rainbow: Rose, 1965, p. 27, 33	Cu, Au, Ag Cu Cu, Au, Ag Cu, Au, Ag
28	Unnamed occurrences: Rose, 1965, p. 28-29, 33	Cu, Au, Ni, Ag
29	Rainy Creek, West Fork: Rose, 1965, p. 28, 33	Cu, Au, Ag
30	Rainy Creek, West Fork: Rose, 1965, p. 28, 33	Cu
31	Unnamed occurrence: Rose, 1965, p. 27, 33	Cu, Au, Ni, Ag
32	Unnamed occurrence: Rose, 1965, p. 30	Cu
33	Rainy Creek: Brooks, 1918, p. 43-44	Cu, Au
34	Bee Mining Co.: Rose, 1965, p. 25-26, 32-33	Cu, Au, Pb, Ni, Ag
35	Rainbow Mountain: Hanson, 1963, p. 67-69	Cu, Au, Pb, Ag
36	Emerick: Hanson, 1963, p. 67	Cu, Ni
37	Rainbow Mountain: Hanson, 1963, p. 67-71	Cu, Au, Pb, Ag
38	Glacier Lake: Rose, 1965, p. 25, 32-33 Rainbow Mountain: Hanson, 1963, p. 71-72	Cu, Au, Ni, Ag Cu, Au, Ni
39	Rainbow Mountain: Hanson, 1963, p. 67-70	Cu, Au, Pb
40-42	Rainbow Mountain: Hanson, 1963, p. 67-70	Cu, Au, Pb, Ag
43	Rainbow Mountain: Hanson, 1963, p. 67-69, 73	Cu
44	Rainbow Mountain: Hanson, 1963, p. 67-69	Cu
45	Rainbow Mountain: Hanson, 1963, p. 67-70	Cu, Au, Pb, Ag
46	Rainbow Mountain: Hanson, 1963, p. 67-70	Cu, Au, Pb
47	Rainbow Mountain: Hanson, 1963, p. 67-69	Cu
48	McCumber (Macomber) Creek: Moffit, 1942, p. 144	Pb
49-50	Paxson Mountain: Rose and Saunders, 1965, p. 12	Cu
51	Tripp: Rose and Saunders, 1965, p. 12	Cu, Ag
52-53	Paxson Mountain: Rose and Saunders, 1965, p. 11	Cu
54	Paxson's: Martin, 1920, p. 20	Cu
55	Paxson Mountain: Rose and Saunders, 1965, p. 10	Cu
56	Paxson Mountain: Rose and Saunders, 1965, p. 11	Cu
57	Unnamed occurrence: Rose, 1967, p. 19, 27	Cu
58	Unnamed occurrence: Rose, 1967, p. 20, 27	Cu, Au, Ag
59	Unnamed occurrence: Rose, 1967, p. 20	Cu
60	Unnamed occurrence: Rose, 1967, p. 21	Fe
61	Unnamed occurrence: Rose, 1967, p. 21, 27	Cu, Au
62	Unnamed occurrences: Rose, 1967, p. 21, 27	Au, Ag
63-64	Unnamed occurrences: Rose, 1967, p. 22, 27	Cu, Au, Ag
65	Unnamed occurrence: Rose, 1967, p. 22	Cu
66	Unnamed occurrence: Rose, 1967, p. 22, 27	Au
67	Unnamed occurrence: Rose, 1967, p. 22, 27	Cu, Ag
68	Northland Mines: Rose, 1967, p. 23	Cu
69	Unnamed occurrence: Rose, 1967, p. 22, 27	Ag
70	Slana River: Richter, 1967, p. 17-18	Cu, Au, Ni
71	Gillett Pass: Richter, 1967, p. 12, 18	Cr, Ni
72	Alteration Creek: Richter, 1967, p. 16-18	Cu, Au, Ag

1/ Symbols - Sb, antimony; Cr, chromite; Cu, copper, Au, gold; Fe, iron; Pb, lead; Mo, molybdenum; Ni, nickel; Ag, silver; Zn, zinc.

PLACER DEPOSITS

Number	Name and principal reference(s)	Commodity 1/, 2/
73	Ober Creek: Wedow, Killeen, and others, 1954, p. 18	Au, Mz
74	McCumber (Macomber) Creek: Moffit, 1942, p. 143-144	Au
75	Morningstar Creek: Smith, 1933, p. 34	Au
76	Broxon Gulch: Rose, 1965, p. 2, 35	Au
77	Specimen Creek: Rose, 1965, p. 35	Au
78	Rainy Creek, West Fork: Rose, 1965, p. 34	Au
79	Rainy Creek: Rose, 1965, p. 34	Au
80	Delta River: Moffit, 1912, p. 65	Au
81	Yukon Corp.: Wedow, Killeen, and others, 1954, p. 18	Au
82	Gunn Creek: Rose and Saunders, 1965, p. 15	Cr, Au, W, Zn
83	Chistochina River, West Fork: Rose, 1967, p. 35-36	W
84	Chistochina River: Rose, 1967, p. 35-36	W
85	Chistochina Glacier: Rose, 1967, p. 26	Au, Pt
86	Miller Gulch: Moffit, 1954, p. 191-193; Rose, 1967, p. 23-25 Slate Creek: Moffit, 1944, p. 31-33; Rose, 1967, p. 23-25	Cu, Au, Hg, Pt Au, Pt
87	Big Four Creek: Rose, 1967, p. 25-26	Au
88	Ruby Gulch: Moffit, 1954, p. 191-192	Au
89	Quartz Creek: Rose, 1967, p. 26	Au
90-92	Chistochina River, Middle Fork (including Bedrock, Kraemer, and Limestone Creeks): Moffit, 1944, p. 34-40	Cr, Cu, Au, Pb, Pt, Ag
93	Dempsey: Moffit, 1912, p. 77	Au
94	Chisna River: Moffit, 1944, p. 29-31	Au
95	Eagle Creek: Moffit, 1944, p. 40-42	Cu, Au, Pt
96	Slana River tributary: Richter, 1967, p. 16	Au

Placer deposits not shown on map because occurrences could not be located closely enough to plot:

Name and principal reference	Commodity 1/, 2/
Daisy Creek: Moffit, 1909, p. 157	Au
Eureka Creek: Moffit, 1912, p. 65-66	Au
Jarvis Creek: Wedow, Killeen, and others, 1954, p. 18	Au
Kenyon Creek: Brooks, 1915, p. 50-51	Au
Pegmatite Creek: Moffit, 1942, p. 144	Au
Ruby Creek: Brooks, 1915, p. 50	Au
Savage Creek: Brooks and Capps, 1924, p. 38	Au
Treasure Gulch: Smith, 1942b, p. 75	Au, Pt

REFERENCES

Brooks, A. H., 1915, The Alaskan mining industry in 1914: U.S. Geol. Survey Bull. 662, p. 15-68.
_____1918, The Alaskan mining industry in 1916: U.S. Geol. Survey Bull. 622, p. 11-62.
Brooks, A. H., and Capps, S. R., 1924, The Alaskan mining industry in 1922: U.S. Geol. Survey Bull. 755, p. 3-56.
Chapman, R. M., and Saunders, R. H., 1954, The Kathleen-Margaret (K-M) copper prospect on the upper Maclaren River, Alaska: U.S. Geol. Survey Circ. 332, 5 p.
Ebbley, Norman, Jr., and Wright, W. S., 1948, Antimony deposits in Alaska: U.S. Bur. Mines Rept. Inv. 4173, 41 p.
Hanson, L. G., 1963, Bedrock geology of the Rainbow Mountain area, Alaska Range, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 2, 82 p.
Joesting, H. R., 1942, Strategic mineral occurrences in interior Alaska: Alaska Dept. Mines Pamph. 1, 46 p.
Kaufman, M. A., 1964, Geology and mineral deposits of the Denali-Maclaren River area, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 4, 15 p.
Martin, G. C., 1920, The Alaskan mining industry in 1918: U.S. Geol. Survey Bull. 712, p. 11-52.
Moffit, F. H., 1909, Mining in the Kotsina-Chitina, Chistochina, and Valdez Creek regions: U.S. Geol. Survey Bull. 379, p. 153-160.
_____1912, Headwater regions of Gulkana and Susitna Rivers, Alaska, with accounts of the Valdez Creek and Chistochina placer districts: U.S. Geol. Survey Bull. 498, 82 p.
_____1942, Geology of the Gerstle River district, Alaska, with a report on the Black Rapids Glacier: U.S. Geol. Survey Bull. 926-B, p. 107-160.
_____1944, Mining in the northern Copper River region, Alaska: U.S. Geol. Survey Bull. 943-B, p. 25-47.
_____1954, Geology of the eastern part of the Alaska Range and adjacent area: U.S. Geol. Survey Bull. 989-D, p. 63-218.
Richter, D. H., 1967, Geology of the upper Slana-Mentasta Pass area, southcentral Alaska: Alaska Div. Mines and Minerals Geol. Rept. 30, 25 p.
Rose, A. W., 1965, Geology and mineral deposits of the Rainy Creek area, Mt. Hayes quadrangle, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 14, 51 p.
Rose, A. W., 1966, Geological and geochemical investigations in the Eureka Creek and Rainy Creek areas, Mt. Hayes quadrangle, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 20, 37 p.
_____1967, Geology of the upper Chistochina River area, Mt. Hayes quadrangle, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 28, 41 p.
Rose, A. W., and Saunders, R. H., 1965, Geology and geochemical investigations near Paxson, northern Copper River basin, Alaska: Alaska Div. Mines and Minerals Geol. Rept. 13, 35 p.
Saunders, R. H., 1961, Susitna-Maclaren area: Alaska Div. Mines and Minerals Rept. for the year 1961, p. 37-40.
Smith, P. S., 1933, Mineral industry of Alaska in 1930: U.S. Geol. Survey Bull. 836, p. 1-83.
_____1942a, Occurrences of molybdenum minerals in Alaska: U.S. Geol. Survey Bull. 926-C, p. 161-207.
_____1942b, Mineral industry of Alaska in 1940: U.S. Geol. Survey Bull. 933-A, p. 1-102.
Smith, T. E., Trible, T. C., and Stein, D. R., 1972, Preliminary results of stream sediment sampling, upper Maclaren River area, south-central Alaska: Alaska Div. Geol. Survey Misc. Paper 2, 6 p.
Wedow, Helmuth, Jr., Killeen, P. L., and others, 1954, Reconnaissance for radioactive deposits in eastern interior Alaska, 1946: U.S. Geol. Survey Circ. 331, 36 p.

1/ Symbols - Cr, chromite; Cu, copper, Au, gold; Pb, lead; Hg, mercury; Pt, platinum-group metals; Ag, silver, W, tungsten; Zn, zinc; Mz, monazite.

2/ Gold has been produced from most of, and platinum from several of, the listed placers.