

Map number	Prospect name and description	Commodity	Reference (listed below)
1	Unnamed	Nephrite	5
2	Unnamed	Cu	4, 5
3	Unnamed	Cu	4, 5
4	Unnamed	Cu	5
5	Slope Creek	Au, Ag	4, 5
6	Boulder Creek	Au	4, 5
7	Willow Creek	Au	4, 5
8	Altall	Au	4
9	Unnamed	Au, Pb, Zn	4, 5
10	Rock Creek	Mo	4, 5
11	Rock Creek	Covadum	5
12	Trail Creek	Au	4, 5
13	Unnamed	Pb, Ag	4
14	Boyer	Cu	4, 5
15	Unnamed	Cu	4, 5
16	Unnamed	Cu	4, 5
17, 18	Golden Eagle group; Boulder Mine; Nabesna Mine; Sham deposits at a quartz diorite-limestone contact. Gold production at the Nabesna mine of \$1.9 million, all before 1940.	Au, Cu, Ag	2, 4, 5
19	Royal Development Co.	Au	5
20	Camp Creek	Cu	4, 5
21	Monte Cristo Creek; Marie Nabesna	Mo	4, 5
22	Unnamed	Au, Ag, Pb, Zn	4, 5
23	Nabesna River	Cu, Ag, Zn	4, 5
24	Unnamed	Cu	4, 5
25	Unnamed	Au, Co	4, 5
26	Unnamed	Au	4, 5
27	Orange Hill; widespread porphyry type mineralization in granitic intrusive rocks; reserves estimated at 200 million tons containing 1.24 billion lbs of copper, 120 million lbs of molybdenum, and recoverable quantities of gold and silver.	Cu, Au, Mo, Ag	2, 4, 5
28	Lamm Claims	Cu, Au, Zn, Ag	5
29	Unnamed	Pb, Cu, Ag	4, 5
30	Unnamed	Cu	4, 5
31	Unnamed	Cu	4, 5
32	Unnamed	Cu, Zn	4, 5
33	Nabesna Glacier: Quartz-sulfide veins in altered quartz are hypabyssal intrusive.	Cu, Zn, Au	2, 4, 5
34	Unnamed	Cu	4, 5
35	East Fork	Mo, Cu	4, 5
36	Red Creek: Porphyry mineralization in granitic intrusives and meta-sedimentary country rock; estimated reserves of 500 million tons containing 3 billion lbs copper, 200 million lbs molybdenum, and significant quantities of gold and silver.	Cu, Mo, Au, Ag	2, 4, 5
37	Unnamed	Cu	4, 5
38	Unnamed	Cu, Pb, Zn	4, 5
39	Crane Creek: Strongly altered zone with breccia composed of quartz and sulfides.	Cu, Zn, Pb, Ag	2, 4, 5
40	Unnamed	Cu, Pb, Zn	4, 5
41	Unnamed	Cu	5
42	Unnamed	Cu	5
43	Notch Creek	Au	4
44	Dry Gulch	Au	4
45	Chavola (Wilson Creek)	Au	4, 5
46	Glacier Creek, Foorman Creek, Discovery Gulch, and Gold Run Creek: Produced a significant fraction of the \$1 million placer gold production in the Chitana district. Most activity early 1900's, but mining continues to present.	Au	2, 4, 5
47	Big Eldorado Creek	Au	4, 5
48	Big Eldorado Lode	Cu, Au	4, 5
49	Unnamed		5
50	Bonanza Creek, Skookum Creek, Snow Gulch, Little Eldorado Creek, Coarse Honey Creek, Bonanza Creek and its	Au	4, 5

Map number	Prospect name and description	Commodity	Reference (listed below)
51	Erie	Au, Pb, Ag	4, 5
52	Unnamed	Au	4, 5
53	Cathema (Johnson) Creek	Cu, Au	4, 5
54	Unnamed	Au	5
55	Cathema (Johnson) Creek	Au	4, 5
56	Cathema (Johnson) Creek	Au	4, 5
57	Bryan Creek	Au	4, 5
58	Johnson Creek	Cu	4, 5
59-60	Carl Creek: Porphyry mineralization in intrusive rocks; reserves estimated at 16 million tons containing 64 million lbs of copper and significant quantities of gold, silver, and molybdenum.	Cu, Mo, Au, Ag	2, 4, 5
61	O'Hara, Sulzer, Comopottian, Copper Trough	Cu	4, 5
62	Reynolds, Butte Creek, Copper Creek	Cu	4, 5
63	Unnamed	Cu	4, 5
64	Bauloff: Porphyry type mineralization in intrusive rocks; reserves estimated at 160 million lbs of copper and significant quantities of gold and silver.	Cu, Au, Ag	2, 4, 5
65	Craval Creek	Cu	4, 5
66	Unnamed	Cu	4, 5
67	Unnamed	Cu	4, 5
68	Morfeld: Porphyry type mineralization in intrusive rocks; reserves estimated at 40 million tons containing 400 million lbs of copper and significant quantities of silver and gold.	Cu, Au, Ag	2, 4, 5
69	Horafall	Au	4
70	Unnamed	Pb, Ag, Au	4, 5
71	Unnamed	Cu, Ag	4, 5
72	Bureka Creek	Cu, Au, Pb, Zn	4
73	Unnamed	Chromite	5

Oil and Gas
No petroleum resources are known in the Nabesna Quadrangle and the potential for them is considered poor due to limited source and reservoir rocks.

Coal
Lignite (Capps, 1915) and well-preserved leaves and plants (Richter, 1976) are reported south of Cathema Creek. There is an unmineralized report of an 8 ft lignite seam located on the north side of the Barocia Range west of the International boundary and about 1 mi south of the mountain front on a tributary to Beaver Creek (Capps, 1915). As in the McCarthy Quadrangle, any coals that formed, did so in small, intermontane basins and are likely to be thin and discontinuous.

Carbonate Rocks
Carbonate rocks (including limestone, marble, and dolomite) that have many industrial uses occur throughout the quadrangle. Additional description of these undeveloped resources are found in Richter (1976).

Geothermal
The presence of active volcanism on Mt. Wrangell and young volcanic rocks throughout the Wrangell Mountains indicate a region of high heat flow to the surface and a moderate to high potential for geothermal resources. With the exception of one low temperature (20°C) geothermal spring near the Copper Glacier, there are no positive indications of geothermal water, but there has been little detailed geophysical and geochemical exploration.

- REFERENCES**
- Capps, S.B., 1915. Mineral resources of the Chitana-White River district. In Brooks, A.N., and others, Mineral resources of Alaska, report on progress of investigations in 1914. U.S. Geological Survey Bulletin 622, p. 227-228.
 - Cobb, Edward B., and Richter, D.B., 1980. Summaries of data on and lists of references to metallic and selected nonmetallic mineral deposits in the Nabesna Quadrangle, Alaska. U.S. Geological Survey Open-File Report 80-97.
 - Richter, D.B., 1976. Geologic map of the Nabesna Quadrangle, Alaska: U.S. Geological Survey Miscellaneous Investigations Map I-932.
 - Richter, D.B., and Watson, A.A., Jr., 1972. Metallic mineral resources map of the Nabesna Quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-422, 1 sheet, scale 1:120,000.
 - Richter, D.B., Singer, D.A., and Cox, D.P., 1973. Mineral resources map of the Nabesna Quadrangle, Alaska: U.S. Geological Survey Miscellaneous Field Studies Map MF-455A, 1 sheet, scale 1:250,000.

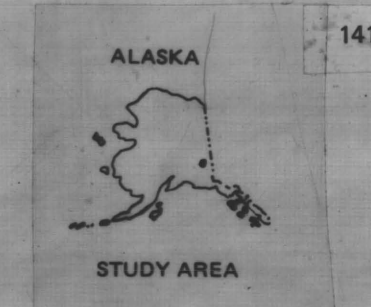
EXPLANATION

This map shows the approximate location of all reported mineral deposits and areas of potential for oil and gas, geothermal, coal, and carbonate rock resources within this quadrangle. The reader is guided to the list of references on this map for additional information regarding these resources.

	Minerals		Small or unmineralized
	Lode deposit		Placer deposit
	Oil and Gas		Geothermal
	Coal		Carbonate Rocks

Note: This map is intended only for general land management and planning purposes; site specific projects will require ground verification of the information presented.

MINERAL AND ENERGY RESOURCES, NABESNA QUADRANGLE, ALASKA



Compiled by Staff, Division of Geological and Geophysical Surveys

TRUE NORTH 29.20
MAGNETIC
APPROXIMATE MEAN DECLINATION, 19

