



1. Some placer gold potential, especially west of area 2; speculative geologic favorability for deposits of base and precious metals
2. Subsurface formations may be possible uranium host rocks; little additional favorability for minerals or energy
3. Little favorability for mineral deposits; speculative potential for geothermal energy production
4. Historical lode gold production of more than 75 thousand ounces from the Nabesna mines and others; recognized porphyry copper deposits have estimated resources on the order of 5.2 billion pounds of copper; in addition to copper and gold the area has a high favorability for eventual production of molybdenum, silver, and possibly other base and precious metals
5. Known prospects and geologic evidence indicate moderate favorability for economic deposits of copper, gold, silver, molybdenum, and possibly other metals
6. Historical placer gold production of 45 or 50 thousand ounces from the Chisana District; moderate favorability for future lode production of copper, gold and other metals and minor amounts of placer gold
7. Recognized deposits have estimated resources of about 2 billion pounds of copper; the area also has potential for production of molybdenum, gold, silver and possibly other metals
8. Prospects and favorable geology indicate a moderate potential for the production of gold, copper, silver and possibly lead, zinc, nickel, chromium, molybdenum, barite and antimony
9. Historical production of more than 1.2 billion pounds of copper and 9 million ounces of silver from the Kennecott and other lode mines, and more than 140 thousand ounces of gold from the placers of the Nizina District, some of which are still being worked; high favorability for future production of copper, silver and a moderate amount of placer gold; also some favorability for deposits of molybdenum, lead, zinc, antimony and tungsten
10. Speculative geologic favorability for deposits of base and precious metals
11. Historical lode and placer gold production of a few thousand ounces from the Bremner and Port Wells Districts; moderate favorability for the future recovery of gold from small lode deposits
12. Historical lode gold production of more than 56 thousand ounces; high favorability for additional production of gold and possibly other metals
13. Some Geologic favorability for small gold deposits and more speculative potential for other metals
14. Historical copper production of more than 215 million pounds from the Letouche and Eltner Mines; high favorability for the additional production of copper, gold, and possibly other metals
15. Speculative geologic favorability for deposits of gold, copper and other base and precious metals
16. Geologic relations indicate a moderate favorability for the occurrence of economic deposits of copper and possibly also gold and other metals
17. Historical minor lode gold production; moderate favorability for future production of gold and possibly other metals
18. Some formations have speculative potential as host rocks for uranium deposits; little other recognized favorability
19. High favorability for coal production from the Bering River Field
20. Geologic favorability for substantial deposits of coal
21. Geologic favorability for the occurrence of petroleum and natural gas, both on and offshore; also contains reserves of a possible oil shale
22. Historical production of about 20 thousand ounces of gold from small beach deposits; moderate potential for placer production of gold and possibly other heavy metals

EXPLANATION

- ★ Prospect; no recorded past production, minor or undetermined potential
- ★ Prospect; no recorded past production but recognized major production potential
- Lode mine; unknown or minor production
- Lode mine; production worth more than \$50,000 (value at the time of operation)
- ✕ Placer mine; unknown or minor production
- ✕ Placer mines with production worth more than \$10,000 (value at the time of operation)
- Mineral occurrence; no known development or exploration
- ▲ Geochemical or geophysical anomaly
- ▲ Abandoned oil field
- 21/Cu Map number principal commodity underlined if more than one deposit or occurrence falls within the area of the symbol (radius approximately 3 miles)

Scale 1:1,000,000

See appendix for more detailed description of deposits

- Highly favorable for metallic and related nonmetallic deposits
- Favorable for metallic and related nonmetallic deposits
- Less favorable for metallic and related nonmetallic deposits
- Unfavorable for metallic and related nonmetallic deposits except for deposits in sedimentary basins, including uranium
- Boundary of regions of similar potential (dotted where indefinite or concealed)

FIGURE 5. - Mineral and energy potential map of the Wrangell-St. Elias region