PROVISIONAL
GEOLOGY OF THE MITCHELL - SULPHURETS REGION, NORTHWESTERN BRITISH COLUMBIA (104 B/8,9)

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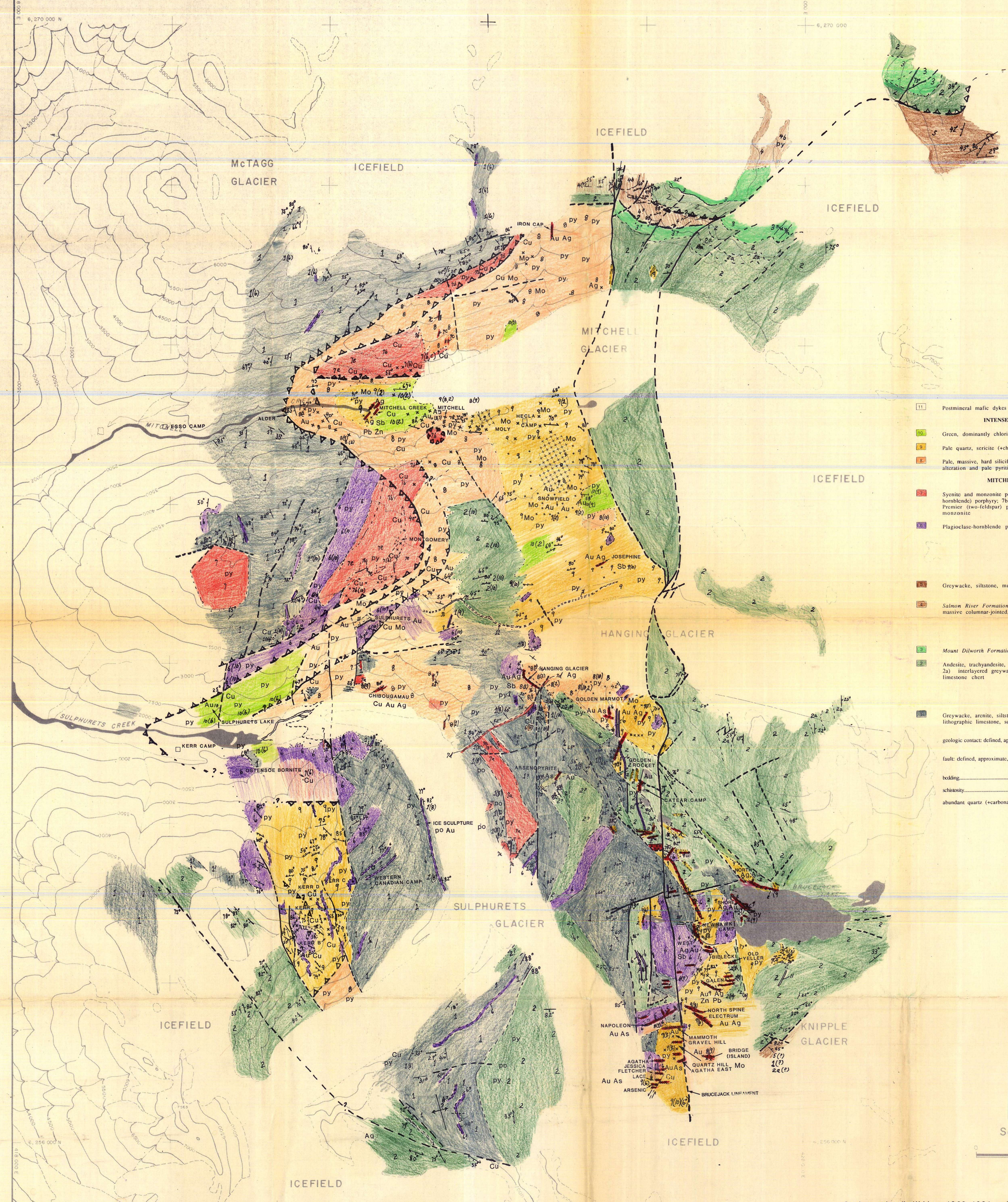
GEOLOGICAL SURVEY OF CANADA July 1991



PROVISIONAL LEGEND

11	Postmineral mafic dykes

INTENSELY ALTERED ROCKS (LOWER JURASSIC?)

10	Green, dominantly chloritic altered rocks **(metaproplytic alteration)**
9	Pale quartz, sericite (+chlorite), pyrite schist (metaphyllic (+meta-argillic?) alteration)
8	Pale, massive, hard silicified and feldspathized rocks (potassic, sodic, and/or siliceous alteration and pale pyritic hornfels)

MITCHELL INTRUSIONS (LOWER JURASSIC?)

7	Syenite and monzonite porphyry, aplitic maroon granite; 7a) Sulphurets sodic (albite, hornblende) porphyry; 7b) potassic monzonite; 7c) low-silica, maroon, aplitic granite; 7d) Premier (two-feldspar) porphyry; 7e) post(or late?)-mineral, magnetite-bearing monzonite
6	Plagioclase-hornblende porphyry (diorite, monzodiorite, monzonite)

LAYERED ROCKS

LOWER TO UPPER JURASSIC

BOWSER LAKE GROUP

5	Greywacke, siltstone, mudstone, conglomerate, chert
4	*Salmon River Formation*: 4a) rhythmically-bedded, mudstone, siltstone, greywacke; 4b) massive columnar-jointed, and/or pillowed, amygdaloidal basalt; pillow breccia

LOWER JURASSIC

HAZELTON GROUP

3	*Mount Dilworth Formation*: dacite, rhyolite, felsic bedded tuff, welded tuff
2	Andesite, trachyandesite, basalt, intermediate and mafic breccia, tuff, epiclastic rocks: 2a) interlayered greywacke, arenites, siltstone, conglomerate, mudstone, lithographic limestone chert

UPPER TRIASSIC

STUHINI GROUP

1	Greywacke, arenite, siltstone, mudstone, slate, conglomerate, breccia, pebbly mudstone, lithographic limestone, sedimentary and volcaniclastic debris flows

geologic contact: defined, approximate, assumed..

fault: defined, approximate, assumed, thrust fault..

bedding..

schistosity..

abundant quartz (+carbonate, barite) veins (stockwork)........................ 9 2a

Ag - silver
As - arsenic
Au - gold
Cu - copper
Pb - lead
Mo - molybdenum
Zn - zinc
py - pyrite
po - pyrrhotite

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

Scale 1 : 20,000

0 0.5 1 1.5 2 km

Geology primarily Kirkham 1960-1961 and 1986-1990.
Kerr property geology Western Canadian Geologists 1985-1989 and J. Payne 1989 and Brucejack West Zone and Shore Zone areas Newhawk Gold Mines Limited geologists 1985-1989.

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