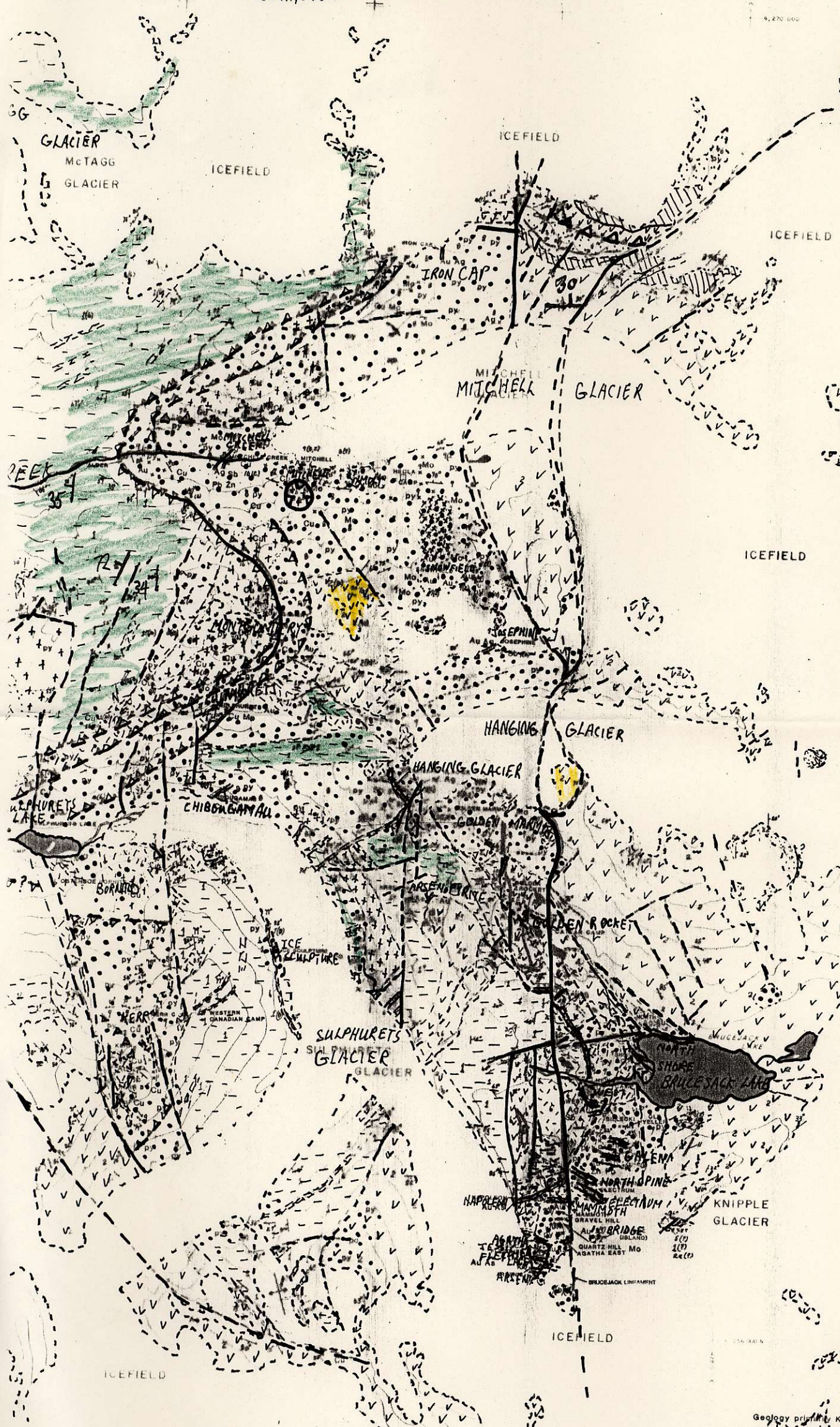


# PROVISIONAL GEOLOGY OF THE MITCHELL - SULPHURETS REGION, NORTHWESTERN BRITISH COLUMBIA (104 B/8,9)

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JOHNSTONE ICEFIELD



- MITCHELL INTRUSIONS**  
Syenite, monzonite  
diorite, monzodiorite
- LAYERED ROCKS**  
Intensely altered rocks (lower Jurassic?)  
Green (metre-scale) alteration
- BOWSER LAKE GROUP**  
Pale quartz, sericite (epithermal) type alteration  
Pale, siliceous, iron sulfidated and (oxidized) rocks (potassic, sodic, and/or siliceous alteration and pale pyritic horizons)
- HAZELTON GROUP (LOWER JURASSIC)**  
**MOUNT DILLWORTH FORMATION**  
Syn-tectonic, iron sulfidated and (oxidized) rocks (potassic, sodic, and/or siliceous alteration and pale pyritic horizons)
- YUKON RIVER & BETTY CREEK FORMATIONS**  
Premier (two-folded) porphyry; 7c) post- to late-2) porphyry  
Plagioclase (andesite, diorite, monzodiorite, monzonite)
- STUHINI GROUP**  
LOWER TO UPPER JURASSIC
- THRUST FAULT**  
Greywacke, siltstone, mudstone, conglomerate, chert
- FAULT**  
Nelson (zone 4a) rhythmically bedded, mudstone, siltstone, greywacke, 4b) massive columnar jointed, and/or pillowed, amygdaloidal basalt, pillow breccia
- LOWER JURASSIC**  
Pyrite (pyrrhotite) altered rocks  
Mount Stuhini Formation: dacite, rhyolite, lava, bedded tuff, welded tuff
- UPPER TRIASSIC**  
**STUHINI GROUP**  
Greywacke, siltstone, mudstone, chert, conglomerate, breccia, pebbly mudstone, lithographic limestone, sedimentary and volcanoclastic debris flows
- geologic contact: defined, approximate, assumed
- fault: defined, approximate, assumed, thrust fault
- bedding
- shallowly
- abundant quartz (=carbonate, basalt) veins (stockwork)
- Ag - silver  
As - arsenic  
Au - gold  
Cu - copper  
Fe - iron  
Mo - molybdenum  
Zn - zinc  
Py - pyrite  
Po - pyrrhotite

Scale 1:20,000  
2km

Geology prepared by Kirkham 1980-1981 and 1985-1990.  
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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