

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

by R.V. KIRKHAM  
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### PROVISIONAL LEGEND

- 11 Postmineral mafic dykes
  - INTENSELY ALTERED ROCKS (LOWER JURASSIC?)**
  - 10 Green, dominantly chloritic altered rocks (metapropylitic alteration)
  - 9 Pale quartz, sericite (+chlorite), pyrite schist (metapylitic (+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 Syenitic and monzonitic 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 postor (late?)-mineral, magnetite-bearing monzonite
  - 6 Plagioclase-hornblende porphyry (dioritic, monzodioritic, monzonite)
  - LAYERED ROCKS**
  - LOWER TO UPPER JURASSIC**
  - BOWSER LAKE GROUP**
  - 5 Geywacke, siltstone, mudstone, conglomerate, chert
  - 4 Salmon River Formation: 4a rhythmically bedded, mudstone, siltstone, geywacke; 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 geywacke, arenites, siltstone, conglomerate, mudstone, lithographic limestone, chert
  - UPPER TRIASSIC**
  - STUHLIN GROUP**
  - 1 Geywacke, arenite, siltstone, mudstone, slate, conglomerate, breccia, pebbly mudstone, lithographic limestone, sedimentary and volcanoclastic debris flows
- geologic contact: defined, approximate, assumed.....
- fault: defined, approximate, assumed, thrust fault.....
- bedding.....
- schistosity.....
- abundant quartz (carbonate, barite) veins (stockwork).....

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

Scale 1:20,000

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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