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

R.V. KIRKHAM

418 000 E
6, 270 000 N
428 000 E
6, 270 000

McTAGG GLACIER
ICEFIELD
ICEFIELD
ICEFIELD
IRON CAP ZONE
MITCHELL GLACIER
MITCHELL CREEK
MITCHELL SILVER ZONE
QUARTZ (Mo) ZONE
QUARTZ (Mo) ZONE
SNOWFIELD GOLD ZONE
MONTGOMERY COPPER ZONE
SULPHURETS ZONE
HANGING GLACIER
HANGING GLACIER ZONE
SULPHURETS CREEK
CATEAR CAMP
BRUCEJACK LAKE
SHORE ZONES
NEWHAWK CAMP
WEST ZONE
GALENA ZONE
ELECTRUM ZONE
BRUCEJACK LINEAMENT
KNIPPLE GLACIER
D ZONE
C ZONE
WESTERN CANADIAN CAMP
KERR GROUP
A ZONE
B ZONE
SULPHURETS GLACIER
ICEFIELD
ICEFIELD
ICEFIELD
ICEFIELD
6, 256 000 N
418 000 E
6, 256 000 N
428 000 E

PROVISIONAL LEGEND

11 — Postmineral mafic dykes

INTENSELY ALTERED ROCKS (LOWER JURASSIC?)

913 10 — Green, dominantly chloritic altered rocks (proplytic alteration)

942 9 — Pale quartz, sericite (+chlorite), pyrite schist (metaphyllic (+meta-argillic?) alteration)

937 8 — Pale, massive, hard silicified and feldspathized rocks (potassic, sodic, and/or siliceous alteration and pale pyritic hornfels)

MITCHELL INTRUSIONS (LOWER JURASSIC?)

921 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

932 6 — Plagioclase-hornblende porphyry (diorite, monzodiorite, monzonite)

LAYERED ROCKS

MIDDLE AND UPPER JURASSIC

BOWSER LAKE GROUP

967 5 — Greywacke, siltstone, mudstone, conglomerate, chert

LOWER AND MIDDLE JURASSIC

SPATSIZI GROUP

936 4 — *Salmon River Formation*: 4a) rhythmically-bedded, mudstone, siltstone, greywacke; 4b) massive columnar-jointed, and/or pillowed, amygdaloidal andesite; pillow breccia

LOWER JURASSIC

HAZELTON GROUP

910 3 — *Mount Dilworth Formation*: dacite, rhyolite, felsic bedded tuff, welded tuff

909 2 — Andesite, basalt, intermediate and mafic breccia, tuff, epiclastic rocks; 2a) interlayered greywacke, arenites, siltstone, conglomerate, mudstone, lithographic limestone chert

UPPER TRIASSIC

STUHINI GROUP

945 (1145?) 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)

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

inches 0 1 2
centimetres 0 1 2 3 4 5
BRITISH COLUMBIA GEOLOGICAL SURVEY
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 1.5 2 km

Geology primarily by R.V. Kirkham 1960, 1961, 1986, 1987, 1988, 1989

Kerr property geology after Western Canadian Mining geologists 1985-1989 J. Payne

Compiled by C. Logan

Newhawk original

August 1990 1987

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NEWHAWK GOLD MINES LTD.		
SULPHURETS JOINT VENTURE		
N.T.S. 104 B 8,9		
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Date. JULY, 1987	JULY, 1987	
Scale.		Drawing No. S87-