

1967

Sarita River-  
Lucky Six Iron

672898  
92C/14

Roseanne - Cp showing in Karmutsen volcanics - N side of Great Central  
Lake

MARY (221) - fracture zones in silicified Karmut or volcanics  
Csmico - Cp.  
Five holes 412' EX and 4 AX holes - 1503 feet drilled

ANDY PAK  
Noanda - Cp disseminated in granodiorite - 6 holes - 2304' drilled  
D. Peeg.

REX-Amey - Qtz Moly stringers in altered volcanics (Karmutsen)

Rainy Day (56)  
Mt Agnes - See Bulletin 1928 - page 369.  
Mag, Cp in skarn, limestone, diorite & volcanics

1968

ANDY PAK - Soil sampling 10,000' glina - Cp, Mo - qtz veinlets in fracture  
fillings & dissemination in stockwork in granodiorite

SIR Mike - Mo. in fractures, shears & qtz veins in granite & horn fcl.  
Marshall Creek

SKARN - 10,000 feet of EM and Mag & soils  
Noanda - Lenses of py, Cp in skarn on Nitinat River

1965

Koros - Galena, Sphalerite, Cp in limestone - map, geoschem & trench.  
Bralone Placer

Thistle Mine - 2 Cp replacement orebodies found along 2 shear  
zones in altered Sicker Limestone - 130' apart  
See 1944.

SKARN - Regional study of 500,000 square miles west of Nainiro Lakes.  
acres

②  
TUNGSTEN - VICTORY.

CORRIGAN CREEK - ANDY AND PAK - PORPHYRY COPPER  
(225) Qtz diorite cut by numerous feldspar porphyry dykes, which  
may be Tertiary  
low grade dissemin. Cp, Py, Pyrrhotite with minor  
molyb., mag & sp. alenite

1966

Mary (221) Cp filling in fractures in Karmutsen basalt breccia  
Gunnex associated feldspar porphyry dykes  
Close to Karmutsen-Bonanza contact

ANDY, PAK (225) - Corrigan Creek - Cu & Mo dissemin. porphyry (granodiorite)  
NORANDA 1549' drilled in 1966

SR. (220)  
Marshall Creek. - Mo in fractures & veins in granitic rocks.  
3670' drilled in 1966

OMA SUNNY FID, KATHY. 100 claims - SARITA RIVER  
Peel Resources - cover BROWN GRANTS Black Bear Eureka  
2401m drilled in 1966 LOCATION (?)

MAL & S. (224)  
Marshall Creek Bands of Cp, Sp. in shear zone in altered granite  
cut by andesite & qtz monzonite

ALBETA (60) Long Creek and Robertson Creek  
Albeta Mines H/Cp & Magnetite  
Skarn in volcanic rocks next to granite  
777 feet drilled in 1966

① Page 162 Gold quartz veins and porphyry copper deposits are almost entirely confined to the zones of known and probable Tertiary intrusive activity.

The Redwell quartz diorite batholith a mile west of Western Mine is one of the most barren batholiths in Vancouver Island.

Big Interior Mountain porphyry copper deposits are related to younger Tertiary quartz diorites & dacite porphyries.

No ~~dy~~ plutons occur near Twin J. deposit.

SKARN

Plutons of known age which are related to the skarn deposits are nearly all middle or early-late Jurassic.

The original source of most iron & copper in the skarn deposits was the Karmutsen volcanics.

Deposits similar to Island Copper should be restricted to the Bonanza formation in the vicinity of porphyritic intrusions.

MOUNT STOCKWORKS-ALLIES DEPOSIT - CONICHAN LAKE.

Occurs in ACID facies of Jurassic ~~of~~ granodiorite.

MT WASHINGTON - Tertiary fault zone on contact dacite pyro sill & gneiss.

Jurassic intrusive spread laterally in incompetent sedimentary rocks - maximum near Quatsino limestone.

Tertiary plutons in form of pluton laccoliths and sills.

PORPHYRY COPPER Page 142

MOUNT WASHINGTON

CATFACE

FAITH LAKE

GEM LAKE

BIG "I"

} all five closely related to gtr diorite-dacite porphyry breccia complexes - 3 Tertiary and 2 probably  
Occur <sup>alone</sup> in a northeast trending zone which may be fault.

1963

Albeta (60) shipped \$590 ton 4% Cu. Britannia

ANOMALY ( - Shear zones 8-10' wide - Cp. - fine tuff  
3' of 3.5 Cu, 3.0' 2.03'

MAL

Marshall Creek - Silicified granite - Cut by andesite dyke  
25' fault zone - Cp up to 2', sph.

WW - Wayne McNally - Cp. in 2' fault - andesite and limestone.  
100' long

China Creek area.

Line of feldspar porphyry intrusive run N.S.  
Diorite 5 miles long  $\times \frac{1}{2}$  - well brecciated & cemented  
- mineralized quartz veins on both sides  
South end of diorite + calc spar porphyry - good /  
suitable for breccia

Good prospecting area

(3)

Bamfield-Nitinat Lake-Renfrew area has favourable Bonanza formations in which are located the Island Copper deposits. Intrusions in the Island Copper area are porphyritic but Jurassic. Although most <sup>porphyry</sup> copper deposits are confined to Tertiary intrusives - not so at Island Copper.

Little Quatsino limestone observed as little mapping carried out  
Similar situation in case of favourable Tertiary intrusives

Jurassic Pluton - Medium grained pale pinkish grey, hypidiomorphic granular hornblende and/or biotite granodiorite. Minor quartz monzonite and quartz diorite near borders. Plagioclase cloudy. Porphyry not common, med gr'd, often gneissic, strong alteration

TERTIARY Pluton. Quartz diorite. Catface, Mt Washington, Faith Lake, Reballs & Sucke  
5000' Light grey, fresh, fine to medium grained: 54.8% plagioclase up to 70%; 11.5% biotite, 5% amphibole, 28.6% quartz  
Plagioclase crystals free from clouding  
Breccias common  
Fine to med gr'd, porphyry common, No gneisses  
Negligible alteration

No production from porphyry copper deposit - associated with good bearing quartz veins & fissure zones close to gr'd diorite  
Tertiary deep pluton