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MINFILE / pc
MASTER REPORT
GEOLOGICAL SURVEY BRANCH - MINERAL RESOURCES DIVISION
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

Novelty
886213

PAGE: 204
REPORT: RGEN0100

MINFILE NUMBER: 082FSW107 ✓

NATIONAL MINERAL INVENTORY: 082F4 Mo3

NAME(S): NOVELTY (L.958), GIANT, GIANT - COXEY

STATUS: Developed Prospect
NTS MAP: 082F04W
LATITUDE: 49 05 11
LONGITUDE: 117 49 18
ELEVATION: 1370 Metres
LOCATION ACCURACY: Within 500M

MINING DIVISION: Trail Creek
UTM ZONE: 11
NORTHING: 5437150
EASTING: 440000

COMMENTS: Novelty pit, located on the southwest slope of Red Mountain, 1.6 kilometres northwest of Rossland.

COMMODITIES: Gold Molybdenum Cobalt Uranium Bismuth

MINERALS

SIGNIFICANT: Arsenopyrite Molybdenite Uraninite Bismuthinite Bismuth
Pyrrhotite Pyrite

ASSOCIATED: Quartz Feldspar

MINERALIZATION AGE: Unknown

DEPOSIT

CHARACTER: Vein Disseminated Breccia
CLASSIFICATION: Porphyry Skarn
TYPE: Porphyry Mo W skarn
Rare element pegmatite - NYF family

HOST ROCK

DOMINANT HOST ROCK: Metasedimentary

STRATIGRAPHIC AGE

Pennsylvan.-Permian
Jurassic
Jurassic

GROUP
Undefined Group

FORMATION
Mount Roberts

IGNEOUS/METAMORPHIC/OTHER

Trail Pluton
Nelson Intrusions

LITHOLOGY: Breccia
Hornfels
Hornfels Siltstone
Siltstone
Andesite
Quartz Diorite
Quartz Diorite Breccia
Mafic Dike
Granodiorite

** 162 Ma - age of host
intr. + moly min.*

HOST ROCK COMMENTS: The Trail pluton is part of the Nelson Intrusions.

GEOLOGICAL SETTING

TECTONIC BELT: Omineca
TERRANE: Slide Mountain
METAMORPHIC TYPE: Contact

Quesnel
RELATIONSHIP:

PHYSIOGRAPHIC AREA: Selkirk Mountains

GRADE: Hornfels

INVENTORY

ORE ZONE: NOVELTY MAIN

CATEGORY: Indicated YEAR: 1984

QUANTITY: 77110 Tonnes

COMMODITY GRADE
Gold 5.1400 Grams per tonne
Cobalt 0.1260 Per cent
Molybdenum 0.2200 Per cent

COMMENTS: Undiluted drill indicated reserves calculated by J.L. Deleen (1984).
Actual grade is 0.38 per cent MoS₂. Conversion used MoS₂ to Mo 1.6681.
REFERENCE: David Mineral Ltd., Statement of Material Facts, July 11, 1985.

CAPSULE GEOLOGY

The Novelty area is underlain by siltstone, hornfelsed siltstone, hornfels and a breccia complex of the Pennsylvanian and possibly Permian Mount Roberts Formation. The characteristics of the mineralization and its association with the Middle to Late Jurassic Trail pluton, especially its upper and western margins, point to its classification as a porphyry-type deposit (Bulletin 74).

The siltstone is intruded by lenticular masses of andesite, irregular bodies of quartz diorite and quartz diorite breccia, and late, steeply dipping mafic dykes which trend northward. The quartz-diorite and quartz-diorite breccia are part of the Trail Pluton of the Nelson Intrusions which is comprised of a mass of granodiorite to quartz diorite. A set of faults trend 160 degrees and are downthrown on the west.

Molybdenite, usually without other sulphides, occurs in randomly oriented fractures in all types of hornfels breccia and in grano-

*→ early skarn min.
cut by intrusive moly
breccia
- related to qtz-diorite
dykes (Early Day pluton)
→ buried reduced
porphyry.*

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CAPSULE GEOLOGY

diorite breccia. Commonly, it lies along the margins of breccia blocks and locally is concentrated at junctions between the blocks. Pyrrhotite, and locally pyrite, are disseminated in hornfels and also occur in fractures and as massive lenses between breccia fragments. Its distribution seems to be independent of the distribution of molybdenite.

In the Novelty pit, fractures in siliceous hornfels contain arsenopyrite, cobalt minerals, bismuthinite, and uraninite (Bulletin 74, page 49; Thorpe, 1967, pages 15,32). Grab samples of molybdenite from the Giant-Coxey area assayed 0.017 to 0.20 per cent uranium (Geological Survey of Canada Economic Geology Series No. 16, 1952).

Undiluted drill indicated reserves on the Novelty main one were reported as 77,110 tonnes at 5.14 grams per tonne gold, 0.22 per cent molybdenite, 0.126 per cent cobalt (Actual grade is 0.38 per cent MoS₂. Conversion used for MoS₂ to Mo is 1.6681.) (J.L. Deleen, 1984 - in David Minerals Statement of Material Facts, July 11, 1985; National Mineral Inventory - 082F4 Mo3).

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