



MINFILE

NEW REVISION MODIFIED

IDENTIFICATION

MINFILE NO. 0B2ESE125 NAT'L MINERAL INV. NO. _____

CANMINDEX NO. _____

NAME(S) 1. Roderick Dhu (L.598)
2. _____
3. _____
4. _____

STATUS: SHOWing PROSpect DeveloPed PROspect U PRODucer PAST PRODucer

LOCATION:

NTS MAP: 0B2E02E

BC MAP: _____

MINING DIVISION: GRWD Greenwood

UTM ZONE: 11 NORTHING: 5449175 EASTING: 381925

LATITUDE: _____ LONGITUDE: _____

ELEVATION: 1646 (metres)

LOCATION CERTAINTY: within 500 m within 1 km within 5 km

Comment on Identity: Quartz vein exposure, 950 metres south-southwest from the summit of Mount Roderick Dhu, west of Jewel Lake, 11.5 kilometres north-northeast from the town of Greenwood, EMR ASS RPT 1814

MINERAL OCCURRENCE

COMMODITIES: AG AU PB

MINERALOGY:

SIGNIFICANT Minerals: GLEN PYRT TLRO

Comment: _____

ASSOCIATED Minerals: QRTZ

Comment: _____

ALTERATION Minerals: LMON

Comment: _____

ALTERATION Type: OXID

DEPOSIT CHARACTER

- 01 Vein
- 02 Stockwork
- 03 Breccia
- 04 Pipe
- 05 Unconsolidated
- 06 Podiform
- 07 Layered
- 08 Stratabound
- 09 Stratiform
- 10 Concordant
- 11 Discordant
- 12 Massive
- 13 Disseminated
- ** Unknown

DEPOSIT CLASSIFICATION

- 01 Replacement
- 02 Magmatic
- 03 Volcanogenic
- 04 Sedimentary
- 05 Syngenetic
- 06 Epigenetic
- 07 Hydrothermal
- 08 Residual
- 09 Porphyry
- 10 Igneous-contact
- 11 Skarn
- 12 Pegmatite
- 13 Placer
- 14 Precipitate
- 15 Exhalative
- 16 Diatreme
- 17 Epithermal
- 18 Mesothermal
- 19 Fossil Fuel
- ** Unknown

AGE OF MINERALIZATION: XXX ISOTOPIC AGE: _____

MATERIAL DATED: _____ DATING METHOD: _____

SHAPE OF DEPOSIT: 1 Regular 2 Tabular 3 Cylindrical 4 Bladed 5 Irregular

SHAPE MODIFIER: 1 Folded 2 Faulted 3 Fractured 4 Sheared 5 Other _____

DEPOSIT DIMENSION: _____ X _____ X _____ (metres)

ATTITUDE: STRIKE/DIP _____ TREND/PLUNGE _____

Comment: _____

DATE CODED: Y _____ M _____ D _____ CODED BY _____ FIELD CHECKED YES NO

Y 89 M 02 D 22 REVISED BY GO YES NO

✓ **HOST ROCK**

DOMINANT HOST ROCK: 1 Sedimentary 3 Volcanic 5 Metaplutonic 7 Metamorphic
 2 Plutonic Metasedimentary 6 Metavolcanic

FORMAL HOST:

1. Group: 365 Anarchist Group Formation: _____
 Strat-Age: 329 Pennsylvanian-Mississippian Isotopic Age: _____
 Dating Method: (Carboniferous or older) Material Dated: _____

2. Group: _____ Formation: _____
 Strat-Age: _____ Isotopic Age: _____
 Dating Method: _____ Material Dated: _____

INFORMAL HOST:

1. Igneous/Metamorphic/Other: Name: 390 Unknown
 Strat-Age: 120 (Lower) Tertiary Isotopic Age: _____
 Dating Method: _____ Material Dated: _____

2. Igneous/Metamorphic/Other: Name: _____
 Strat-Age: _____ Isotopic Age: _____
 Dating Method: _____ Material Dated: _____

Comment on Host Rock: _____

ROCK TYPE/LITHOLOGY:

MODIFIER CODE(S)	ROCK CODE	ROCK NAME
<u>SCTS QRTZ</u>	<u>WCKE</u>	<u>schistose quartz wacke</u>
<u>SCTS LTHC</u>	<u>WCKE</u>	<u>schistose lithic wacke</u>
<u>PLSK</u>	<u>DYKE</u>	<u>pulaskite dyke</u>

✓ **GEOLOGICAL SETTING**

TECTONIC BELT: IN Insular CC Coast Crystalline IM InterMontane OM Omineca EA Eastern
 TERRANE: 1. M Undivided Metamorphic Assemblages 2. CPC Plutonic Rocks
 PHYSIOGRAPHIC AREA: OKHL Okanagan Highland

METAMORPHISM: TYPE RELATIONSHIP
 1 Contact Pre-Mineralization
 Regional 2 Syn-Mineralization
 3 Post-Mineralization

GRADE: ZL Zeolite BS Blueschist MV Med. Vol. Bituminous
 GS Greenschist EC Eclogite HV Hi Vol. Bituminous
 AM Amphibolite AN Anthracite SB Sub Bituminous
 HF Hornfels SA Semi-Anthracite LI Lignite
 GL Granulite LV Low Vol. Bituminous

Geological Setting Comment: _____

CAPSULE GEOLOGY

The Jewel Lake area is underlain by a complex of metamorphic rocks mostly of sedimentary and volcanic origin correlative with the Carboniferous or older Anarchist Group, and a large granodiorite ~~pluton~~ intrusion correlative to the Turo-Cretaceous Nelson Plutonic Rocks. Small dykes and sill-like bodies, feeders to nearby Tertiary lavas, pervade these units.

Locally the metamorphosed volcanic and sedimentary rocks are not always distinguishable, both being fine-grained and medium or dark coloured with primary structures such as bedding and flow banding being confused with foliation or gneissosity. Generally the sedimentary rocks are brittle and quartz-rich, however compositions vary and some biotitic varieties have the same competence as the amphibole-rich volcanic rocks. These rocks are locally called quartzites but few are true quartzites and more appropriate terms would be quartz wacke or lithic wacke. The massive character of the volcanic rocks is due to a combination of intense regional metamorphism and primary structures. Field and petrographic data indicate that at least some of the original rock formed as a result of massive accumulations of lava flows and pillow lava. Crosscutting feeder dykes and sills are significant and contribute to the massive aspect of the volcanic rocks. The metamorphosed schistose volcanic rocks are compositionally basalts. These metasedimentary and metavolcanic rocks form part of the Carboniferous (Pennsylvanian-Mississippian) or older Anarchist Group.

Igneous intrusions in the Jewel Lake camp include a large Lower Cretaceous granodiorite pluton and a host of younger pulaskite and lamprophyre dykes. The granodiorite is correlative with Nelson Plutonic Rocks. It is a homogeneous medium-grained grey body which intrudes the metavolcanic rocks along a northeast trending contact in the southwest part of the camp. The intrusion has produced little effect in both the metavolcanic and metasedimentary rocks. Granodiorite dykes occur and are compositionally similar to the main granodiorite body and are probably offshoots from it. Pulaskite dykes are numerically most important. Several types are evident, including both quartz-bearing and undersaturated types. Post-vein lamprophyre dykes as well as the pulaskite dykes are of probable lower Tertiary age and cut all other major geological units.

On the Rodrick Dhu claim (L. 598) a quartz fissure-vein is hosted in north-striking and east dipping metasedimentary rocks of the Carboniferous (Pennsylvanian-Mississippian) or older Anarchist Group. ~~The rocks are~~ ^{These rocks are} schistose quartz wackes or lithic wackes and are intruded by a lower Tertiary pulaskite dyke. The quartz vein appears to be in a prominent fracture zone that ^{roughly} parallels the bedding/foliation planes of the host metasedimentary rocks. At the southern extremity of the vein, widths range from 5 to 30 centimetres and is mineralized with galena, pyrite and telluride. Limonite occurs in fractures within the quartz. The quartz vein has been traced 152 metres northeast where a second shaft was sunk 7.6 metres in the vein, but mineralization is sparse. To the north of this point, the vein has been displaced by a 61 metre wide pulaskite dyke.

quartz vein was
and stopping carried
out to 20 metres north.

RESERVES

ORE ZONE NAME: Roderick Dhu

YEAR: 1931

CATEGORY: MR Measured Recoverable IN Indicated Ore UN Unclassified
 MG Measured Geological IF Inferred Ore BA Best Assay

SAMPLE TYPE: CHIP Chip GRAB Grab CHNL Channel BULK Bulk DIAD Drill Core ROCK Rock

CALCULATION A: QUANTITY: _____ (tonnes)

Commodity	Grade	Commodity	Grade	Commodity	Grade
<u>AU</u>	<u>38.4</u>	_____	_____	_____	_____
<u>AG</u>	<u>51.4</u>	_____	_____	_____	_____

(Precious metals in grams, others in per cent)

Comment: Sample from sorted ore.
 Reference: EMPR AR 1931-A125

CALCULATION B: QUANTITY: _____ (tonnes)

Commodity	Grade	Commodity	Grade	Commodity	Grade
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

(Precious metals in grams, others in per cent)

Comment: _____
 Reference: _____

PRODUCTION

YEAR: _____ ORE MINED: _____ (tonnes) ORE MILLED: _____ (tonnes)

Commodity	Quantity	Commodity	Quantity	Commodity	Quantity
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

(Precious metal quantities in grams others in kilograms)

Comment: _____
 Reference: _____

BIBLIOGRAPHY

(place * before significant references)

EMPR AR 1896-563; 1897-590; 1903-H116, H170;
1904-G219; *1921-G184, G347; 1931-A125;
1934-D6; 1967-227; 1968-231
EMPR GEM 1969-304
GSC MAP 828; 6-1957; 10-1967
GSC P 79-29
GSC OF 1969
EMPR BULL 1 (1932), p. 85
EMPR BULL 20, Part III, p. 12
EMPR ASS RPT 1814, 1146A
EMPR EXPL 1983-20