

MINFILE NUMBER: 082ESE242

NATIONAL MINERAL INVENTORY:

NAME(S): PICTURE ROCK

STATUS: Producer
NTS MAP: 082E02E
LATITUDE: 49 42 18
LONGITUDE: 118 47 48
LOCATION ACCURACY: Within 500M

Underground

MINING DIVISION: Greenwood
UTM ZONE: 11
NORTHING: 5907163
EASTING: 370451

COMMODITIES: Gemstones Agate

MINERALS

SIGNIFICANT: Chalcedony
MINERALIZATION AGE:

DEPOSIT

CHARACTER: Vein
CLASSIFICATION: Hydrothermal Epigenetic Industrial Min.

HOST ROCK

DOMINANT HOST ROCK: Metaplutonic

STRATIGRAPHIC AGE

Paleozoic
Unknown

GROUP

Unnamed/Unknown Group

FORMATION

Unnamed/Unknown Formation

IGNEOUS/METAMORPHIC/OTHER

Ultramafic Intrusions

LITHOLOGY: Listwanite
Serpentinite
Feldspar Porphyry Dike

GEOLOGICAL SETTING

TECTONIC BELT: Intermontane
TERRANE: Quesnel

CAPSULE GEOLOGY

The Picture Rock quarry is 4.5 kilometres northwest of Midway between Bauer and Ingram Creeks directly under a major hydroelectric power line (Lat. 49 degrees, 02.3', Long. 118 degrees 47.8'). Access is by a dirt road to the power line from the former railway crossing on Highway 3, west of Midway. The quarry is 500 metres south of the Midway mine from which about 19 tonnes of Ag-Au ore with lead and zinc credits was shipped in the late 1960's and early 1970's. The Rainbow claims covering the area have been explored for large tonnage precious metal potential by Dentonia Resources and Kettle River resources in 1983, Kerr Addison Mines Ltd. in 1984, BP Resources Canada Ltd. from 1987 to 1989 and Minnova Inc. in 1989 and 1990 (Lee, 1990). Through this period to present, ornamental chalcedony has been obtained from the Picture Rock locality for lapidary purposes.

At the Picture Rock Quarry epithermal chalcedonic veins cut altered serpentinite (listwanite) and feldspar porphyry dikes. The quarry is actually a group of small detached and interconnected pits developed over a radius of several tens of metres on the crest of a low ridge. The veins are generally narrow (up to 50 centimetres wide) and mostly shallow dipping to the east and northeast. Typically the veins are delicately banded in white, grey, light blue and blue-green layers that are developed parallel to the veins walls or around listwanitic breccia clasts (Photo 3). Except for the largest veins, seen by the floor of the main pit, which has a hanging wall composed mostly of dickite several centimetres thick, walls are a little altered by the veining. The veins have epithermal gold, silver, arsenic, antimony signatures, with anomalous but subeconomic precious metal values (Lee, 1990).

The Picture Rock chaledonic quartz has proven attractive for the manufacture of clock faces and ornaments by local artisans. The bluish-green colour of some of the chalcedony was thought to be due to the presence of nickel, as chrysophrase, derived from the ultramafic and listwanitic host rocks. However, analysis of a sample of the bluish vein material yielded only 15 ppm nickel. Other elements, possibly contributing to the colour, include 71 ppm cobalt, 94 ppm manganese, 0.46 per cent iron, 538 ppm strontium, 96 ppm chromium, 100 ppm niobium, and 641 ppm tungsten.

BIBLIOGRAPHY

EMPR Exploration in BC, 1995, (in preparation)

DATE CODED: 960420
DATE REVISED:

CODED BY: NC
REVISED BY:

FIELD CHECK: Y
FIELD CHECK: N



MINFILE QUICK CODING CARD

NEW REVISE DELETE

IDENTIFICATION

MINFILE NO.*: 082ESE 242 NAME*: Picture Rock

STATUS* (Choose One): _____ (Ranked up to 16)

- Anomaly (use as a temporary occurrence)
- Showing
- Prospect
- Developed Prospect
- Producer
- Past Producer
- Open Pit
- Underground

MINING METHOD (Choose One): _____

LOCATION*

NTS MAP* (Ranked, up to 4): 82 E 2

MINING DIVISION*: Greenwood

LATITUDE*: 49° 22.3' 18" or NORTHING*: _____
LONGITUDE*: 118° 47.8' 48" EASTING*: _____

ELEVATION*: _____ (metres) LOCATION CERTAINTY*: Within 500 m Within 1 km Within 5 km

IDENTIFICATION COMMENTS (Unlimited space): _____

DATE CODED*: 20 DD 4 MM 96 YY CODED BY*: N. Chuvp FIELD CHECKED*: Yes No

DATE REVISED*: _____ DD _____ MM _____ YY REVISED BY*: _____ FIELD CHECKED*: Yes No

MINERAL OCCURRENCE

COMMODITIES* (Ranked, up to 15): ~~chalcedonic quartz~~ ① GEMSTONE ② Agate

MINERALS

SIGNIFICANT* (Ranked, up to 16): chalcedony

DEPOSIT

- CHARACTER* (Ranked, up to 4):
- Vein Stockwork Breccia Pipe Unconsolidated
 - Podiform Layered Stratabound Stratiform Concordant
 - Discordant Massive Disseminated Shear Unknown

- CLASSIFICATION* (Ranked, up to 4):
- Replacement Magmatic Volcanogenic Sedimentary Syngenetic
 - Epigenetic Residual Porphyry Igneous-contact Skarn
 - Pegmatite Placer Evaporite Exhalative Diatreme
 - Hydrothermal Epithermal Mesothermal Fossil fuel Metamorphic
 - Industrial Mineral Unknown

HOST ROCK

DOMINANT HOST* (Choose 1): Sedimentary Volcanic Metaplutonic Metamorphic Plutonic

Metasedimentary Metavolcanic Ultramafic thrust slices

LITHOLOGIES* (Ranked, up to 10):
MODIFIER 1: feldspar MODIFIER 2: porphyry MODIFIER 3: _____ ROCK TYPE*: listwanite
serpentine
dike

*mandatory field; all comment lines are 70 characters each.

FORMAL HOST

(*List at least 1 Formal or Informal host)

1. GROUP: _____ FORMATION: _____
STRATIGRAPHIC AGE*: Paleozoic ISOTOPIC AGE: _____
DATING METHOD: _____ MATERIAL DATED: _____

INFORMAL HOST

1. IGNEOUS/METAMORPHIC/OTHER: ultramafic rocks
STRATIGRAPHIC AGE*: _____ ISOTOPIC AGE: _____
DATING METHOD: _____ MATERIAL DATED: _____

GEOLOGICAL SETTING

TECTONIC BELT* (Choose 1):

Insular Coast Intermontane Omineca Foreland

TERRANE* (Ranked, up to 2): Quessette

INVENTORY

ZONE (Use generic name for an assay): _____

YEAR: _____ REPORT ON: Yes No

CATEGORY Assay/Analysis

SAMPLE TYPE (Assay only):

Chip Grab Channel Bulk Drill Core Rock

COMMODITIES/GRADES (Precious metals in grams, others in per cent):

_____/_____/_____ / _____/_____/_____ / _____/_____/_____

REFERENCE* (1 line): _____

CAPSULE GEOLOGY*

The Picture Rock quarry is 4.5 kilometres northwest of Midway between Bauer and Ingram Creeks directly under a major hydroelectric power line (Lat. 49°02.3', Long. 118°47.8'). Access is by a dirt road to the power line from the former railway crossing on Highway 3, west of Midway. The quarry is 500 metres south of the Midway mine from which about 19 tonnes of Ag-Au ore with lead and zinc credits was shipped in the late 1960's and early 1970's. The Rainbow claims covering the area has been explored for large tonnage precious metal potential by Dentonia Resources and Kettle River resources in 1983, Kerr Addison Mines Ltd. in 1984, BP Resources Canada Ltd. from 1987 to 1989 and Minnova Inc. in 1989 and 1990 (Lee, 1990). Through this period to present, ornamental chalcedony has been obtained from the Picture Rock locality for lapidary purposes.

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light blue and blue-green layers that are developed parallel to the vein walls or around listwanitic breccia clasts (Photo 3). Except for the largest veins, seen by the floor of the main pit, which has a hanging wall composed mostly of dickite several centimetres thick, walls are little altered by the veining. The veins have epithermal Au, Ag, As, Sb signatures, with anomalous but subeconomic precious metal values (Lee, 1990).

BIBL

(Quote all references for the occurrence)

B. N. Church (1996): The 6 Precious Stones and Au-1 Okanagan - Boundary Div of Employment & Investment Exploration in P.C. 199.

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