

RUN DATE: 90/06/16
RUN TIME: 00:00:22

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

PAGE: 151

Sherwood
887468

MINFILE NO.: 092F 069

NATIONAL MINERAL INVENTORY NO.: 92F5 Au5

NAME(S): SHERWOOD, PATULLO 1-2 (L. 1830, 1844), BLACK BEAR, HAMBER, PLUTO, HART, PM

STATUS: Past Producer - Underground MINING DIVISION: Nanaimo

N.T.S.: 092F05E

LATITUDE: 49 27 53

UTM ZONE: 10

LONGITUDE: 125 31 17

UTM NORTHING: 5481960

ELEVATION: 1342 Metres

UTM EASTING: 317300

COMMENTS: Location of number 1 adit is on Lot 1830, 1 kilometre east of Drinkwater Creek and 0.5 kilometres west of Love Lake (from Gayer, 1944).

CATION ACCURACY: Within 500 M

COMMODITIES: Gold Silver Zinc
Lead Copper

SIGNIFICANT MINERALS: Sphalerite Galena Covellite Chalcopyrite

SIGNIFICANT MINERALS COMMENTS: Silver associated with galena; gold mineralization.

ASSOCIATED MINERALS: Quartz Pyrrhotite Marcasite

ALTERATION MINERALS: Limonite Malachite Marcasite Anglesite Covellite

ALTERATION TYPE(S): Oxidation Clay

Argillic

AGE OF MINERALIZATION: Unknown

DEPOSIT CHARACTER: Vein

DEPOSIT CLASS.: Epigenetic Hydrothermal Epithermal

DIMENSIONS: 1 (METRES) STRIKE/DIP: 070 70N

COMMENTS: Vein strikes 070 to 080 degrees and dips 65 to 72 degrees north.

DOMINANT HOST ROCK: Sedimentary

GROUP: Sicker

STRATIGRAPHIC AGE: Paleozoic

GROUP: Buttle Lake

FORMATION: Azure Lake

STRATIGRAPHIC AGE: Pennsylvan.-Permian

IGNEOUS/METAMORPHIC/OTHER: Island Intrusions

STRATIGRAPHIC AGE: Jurassic

TOPIC AGE: 167 Ma

DATING METHOD: Potassium/Argon

MATERIAL DATED: Biotite

THOLOGY:

Cherty Argillite
Cherty Tuff
Granodiorite
Andesite Dyke
Basalt Dyke
Quartz Diorite Dyke
Clay Gouge

COMMENTS: Intrusive age date from Kennedy Lake (Geological Survey of Canada Paper 72-44).

TECTONIC BELT: Insular

TERRANE: Wrangellia

PHYSIOGRAPHIC AREA: Vancouver Island Ranges

RESERVES:

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CONTINUED...

ZONE: SHERWOOD

CLASSIFICATION: Inferred Ore

DATE: 1988

QUANTITY: (TONNES) 45000

COMMODITY

GRADE

Gold 51.0000 Grams per tonne

COMMENTS: Possible.

REFERENCE: Preliminary Map 65.

CLASSIFICATION: Indicated Ore

DATE: 1944

QUANTITY: (TONNES) 25247

COMMODITY

GRADE

Gold 17.1500 Grams per tonne

COMMENTS: Probable and possible ore.

REFERENCE: McDougall, M.E. (1944): Report on the Sherwood Group of Mineral Claims

PRODUCTION: ** ALL METRIC VALUES ARE IN KILOGRAMS EXCEPT PRECIOUS METALS WHICH ARE IN GRAMS **
 ** ALL IMPERIAL VALUES ARE IN POUNDS EXCEPT PRECIOUS METALS WHICH ARE IN OUNCES **

YEAR	Tonnes Mined	Tonnes Milled	Gold	Silver	Copper	Lead
1942	20	0	1,866	3,110	50	391
METRIC TOTAL:	20	0	1,866	3,110	50	391
IMPERIAL TOTAL: Tons	22	Tons 0	60	100	110	862

GEOLOGY:

The Sherwood occurrence, located at the southern end of the Buttle Lake uplift, is underlain by cherty argillite and tuff of the Paleozoic Sicker Group. The sediments and volcanics are overlain by limestone of the Permian to Pennsylvanian Azure Lake Formation, Buttle Lake Group. A large granodiorite stock of the Jurassic Island Intrusions is located approximately 2 to 4 kilometres east. See H-W (092F 330) for a discussion of the recent stratigraphic and nomenclature revisions in the uplift.

Andesite and basalt dykes in the area are related to volcanic activity that postdates the limestone. Locally, the quartz diorite dykes and stocks are related to the Early to Middle Jurassic Island Intrusions. Hybrid rocks are common, and there is evidence of granitization in the area southwest of Love Lake. A regional, northwest trending fault extends from Bedwell Lake through Love Lake, and is located 0.5 kilometres east of the occurrence.

The Sherwood vein occupies a 070 to 080 degree striking shear zone that dips 65 to 72 degrees north. Strong open fractures bisect

Handwritten: 45000, 754

Vertical Depth 475 ft

Dec '86

50,000 @ 1.5 = 75,000 oz

Mar. '89 (Heard + Carter)

46,632 ton

.409 .72 Ag

= 19,070 oz Au

+ 35,574 Ag

CAUTION

MINFILE NO.: 092F 069
 CONTINUED...

McLaren

~ 45,000 tons

.408

~ 22,000 oz

*Barr (1990) - from Pinner data
 ~ 30,000 tons .535 Au
 1.15 Ag*

~ 20,000 oz Au

+ Bedwell Area (Barr, 1990) - ind. Muskokaer Baccaneer

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the shear zone at 090 to 120 degrees. The shear zone is up to 2.0 metres wide and contains intensely altered gouge, and lenses of quartz that range up to 0.76 metres in width. Several parallel quartz veins are present, separated by wall rock or clay gouge. Abundant, narrow quartz veins branch off the main structure.

Primary vein material consists of quartz, sphalerite, galena, covellite, chalcopyrite and pyrrhotite. Much of the vein has been reduced to rusty, crumbly and often porous material. Studies indicate the primary sulphide mineralogy is altered to malachite, marcasite, anglesite, covellite, and possibly other secondary minerals. Silver values are associated primarily with galena. The gold mineralogy is not known.

The vein has been exposed at three levels over an area of 212 metres. Samples from the Number 1 level returned assays of up to 328.50 grams per tonne gold over 24.1 centimetres and up to 462.92 grams per tonne silver over 40.6 centimetres (Bulletin 13, pages 92-93).

In 1942, 20 tonnes of ore were shipped, producing 1866 grams of gold, 3110 grams of silver, and values in lead and copper. The deposit is reported to contain 450,000 tonnes of proven reserves and a similar amount of inferred ore (Times-Colonist, December 27 1987). No grades are reported. A more conservative estimate of 25,247 tonnes of probable and possible ore, grading 17.15 grams per tonne gold is given by McDougall (1944). In 1988, the unclassified reserves are reported as 45,000 tonnes grading 51 grams per tonne gold (Map 65).

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EMPR P 1988-1, p. 81; 1987-1, p. 223
EMPR PF (Eastwood, G.E.P. (1980): Letter to E.J. Bowles, Chief Gold Commissioner, dated February 6 1980; Claim Map, 1:50,000 scale; Photograph; Gayer, R. (1944): Composite Map; McDougall, M.E., (1944): Report on the Sherwood Group of Mineral Claims)
GSC P 66-1; 68-50; 72-44; 79-30
GSC OF 9, 61, 463
GSC MEM 204
GSC MAP 17-1968; 1386A
EMR MP CORPFILE (Pioneer Gold Mines of British Columbia Limited; Cangold Mining and Exploration Company Limited; Casamiro Resource Corporation)
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Yole, R.W. (1965): A Faunal Stratigraphic Study of Upper Paleozoic Rocks of Vancouver Island, British Columbia, Ph.D. Thesis, University of British Columbia
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PERS COMM: Nick Massey, May 1990 (with respect to changes in nomenclature)