Ministry of
Energy, Mines and
Petroleum Resources
GEOLOGICAL SURVEY BRANCH

001048

MINFILE

NEW ☐ REVISION ☐ MODIFIED ☒

IDENTIFICATION

MINFILE NO. 082ESE171 NAT'L MINERAL INV. NO.

CANMINDEX NO.

NAME(S) 1. Boundary Falls (L.889) 5. Glory Hole
2. Tunnell (L.888)
3. M 431 (L.2374)
4. Tunnel

STATUS: ☐ SHOWing ☒ PROSpect ☐ DEveloped PRospect ☐ O ☐ U PRODucer ☐ O ☐ U PAst PRoducer

LOCATION:

NTS MAP: 082E02E

BC MAP:

MINING DIVISION: GRWD Greenwood

UTM ZONE: 11 NORTHING: 5434300 EASTING: 375350

LATITUDE: ° ' " LONGITUDE: ° ' "

ELEVATION: 876 (metres)

LOCATION CERTAINTY: 1 ☒ within 500 m ☐ 2 within 1 km ☐ 3 within 5 km

Comment on Identity: Glory Hole Adit, 1 kilometre west from Boundary Falls, 5 kilometres south-southwest from the town of Greenwood. EMPR ASS RPT 6067

MINERAL OCCURRENCE

COMMODITIES: AU AG PB ZN CU

MINERALOGY:

SIGNIFICANT Minerals: PYRT GLEN TRDR ~~CCCP~~ SPLR CLCP

Comment:

ASSOCIATED Minerals: QRTZ CLCT

Comment:

ALTERATION Minerals: ~~CHLR~~ LMON

Comment:

ALTERATION Type: ~~CRBN~~ OXID SILI

DEPOSIT CHARACTER

- ☒ 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
- (2) ☒ 06 Epigenetic
- (1) ☒ 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 04 D 24 REVISED BY GO ☐ YES ☒ NO

MINFILE NO. 082ESE171

HB-936

HOST ROCK

DOMINANT HOST ROCK: [1] Sedimentary [3] Volcanic [5] Metaplutonic [7] Metamorphic [2] Plutonic [4] Metasedimentary [6] Metavolcanic

FORMAL HOST:

1. Group: 229 Knob Hill — Formation: ~~1004~~ ** Unknown
   Strat-Age: 319 Permo-Carboniferous — Isotopic Age: _____
   Dating Method: _____ — 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 Tertiary — Isotopic Age: _____
   Dating Method: _____ — Material Dated: _____
2. Igneous/Metamorphic/Other: — Name: 390 Unknown
   Strat-Age: 210 Cretaceous — Isotopic Age: _____
   Dating Method: _____ — Material Dated: _____

Comment on Host Rock: _____

ROCK TYPE/LITHOLOGY:

MODIFIER CODE(S)			ROCK CODE	ROCK NAME
		MICA	SCST	mica schist
		~~AMPH~~	~~SCST~~	~~amphibolitic schist~~
			~~GNSS~~	~~gneiss~~
			DORT	diorite
			MZDR	monzodiorite
			MRBL	~~marble~~ marble
		AMPH	SCST	amphibolitic schist
			GNSS	gneiss

GEOLOGICAL SETTING

TECTONIC BELT: [IN] INsular [CC] Coast Crystalline [IM] InterMontane [OM] OMineca [EA] EAstern

TERRANE: 1. QN Quesnellia — 2. _____

PHYSIOGRAPHIC AREA: OKHL Okanagan Highland

METAMORPHISM:

TYPE: [1] Contact [2] Regional

RELATIONSHIP: [1] Pre-Mineralization [2] Syn-Mineralization [3] Post-Mineralization

GRADE:

[ZL] Zeolite [GS] Greenschist [AM] Amphibolite [HF] Hornfels [GL] Granulite

[BS] Blueschist [EC] Eclogite [AN] Anthracite [SA] Semi-Anthracite [LV] Low Vol. Bituminous

[MV] Med. Vol. Bituminous [HV] Hi Vol. Bituminous [SB] Sub Bituminous [LI] Lignite

Geological Setting Comment: _____

The area is underlain by a wide ranging section of Tertiary, Mesozoic and Upper Paleozoic rocks which have undergone several episodes of deformation and are intruded by diorite-monzodiorite and granodiorite.

The Boundary Falls property is underlain by Permo-Carboniferous basement complex Knob Hill Group mica schist, marble, amphibolitic schist and gneiss. Several intrusions are evident and consist of a predominant Tertiary diorite-monzodiorite and Cretaceous granodiorite. The units are metamorphosed and sheared in a northwest direction. A quartz vein system labelled the Glory Hole strikes northwest and dips 75 degrees southwest and appears to be hosted in a shear zone in Permo-Carboniferous Knob Hill Group mica schist close to the contact with a Tertiary diorite-monzodiorite intrusion. The vein is highly shattered and ranges from a few centimetres to 1.5 metres in width. Some stringer veins disperse into the wallrock. Limonite occurs as an oxidation product along fracture planes within the quartz vein. The vein is offset along strike by subparallel fault movements.

Approximately two hundred and seventy metres south-southeast a massive quartz vein 0.6 metres wide, labelled the No. 1 Vein, strikes northeast and dips steeply northwest.

Mineralization consists of pyrite, galena, tetrahedrite, sphalerite and chalcopyrite in a gangue of mainly quartz and occasional calcite and also occurs in local silicified zones. Gold and silver values are associated with the sulphide mineralization.

Past development consisted of adits.

cg on UAX
bl

WORK HISTORY

YEAR FROM	TO	WORK TYPE	AMOUNT (m/km/ha/No.)	COMMENT (Owner/Operator/Results)
1975				see EMPR ASS RPT 5618, 6067

CAPSULE GEOLOGY

WORK HISTORY

YEAR FROM	TO	WORK TYPE	AMOUNT (m/km/ha/No.)	COMMENT (Owner/Operator/Results)
1975				see EMPR ASS RPT 5618, 6067

RESERVES

ORE ZONE NAME: Glory Hole YEAR: 1975

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 [DRIL] Drill Core [ROCK] Rock

CALCULATION A: QUANTITY: _____ (tonnes)

Commodity	Grade	Commodity	Grade	Commodity	Grade
AU	8.22				
AG	34.62				

(Precious metals in grams, others in per cent)

Comment: _____
Reference: EMPR ASS RPT 6067

RESERVES

ORE ZONE NAME: No. 1 Vein YEAR: 1975

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

SAMPLE TYPE: [CHIP] Chip [GRAB] Grab [CHNL] Channel [BULK] Bulk [DRIL] Drill Core [ROCK] Rock

CALCULATION A: QUANTITY: _____ (tonnes)

Commodity	Grade	Commodity	Grade	Commodity	Grade
AU	10.55				
AG	325.66				

(Precious metals in grams, others in per cent)

Comment: EMPR ASS RPT 6067
Reference: _____

BIBLIOGRAPHY

(place * before significant references)

EMPR AR 1896-582; * 1897-582,587; 1898-1125, 1195, 1196;
GSC MEM 38, Part III, Map B3A
GSC MAP 82B; 6-1957; 10-1967
GSC OF 1969
EMPR MAP * 59
EMPR ASS RPT 5618, * 6067
EMPR EXPL * 1975-E13, E14; 1976-E19, E20; * 1978-E17, E18
EMPR PF (OB2ESE171)