

Property Name:

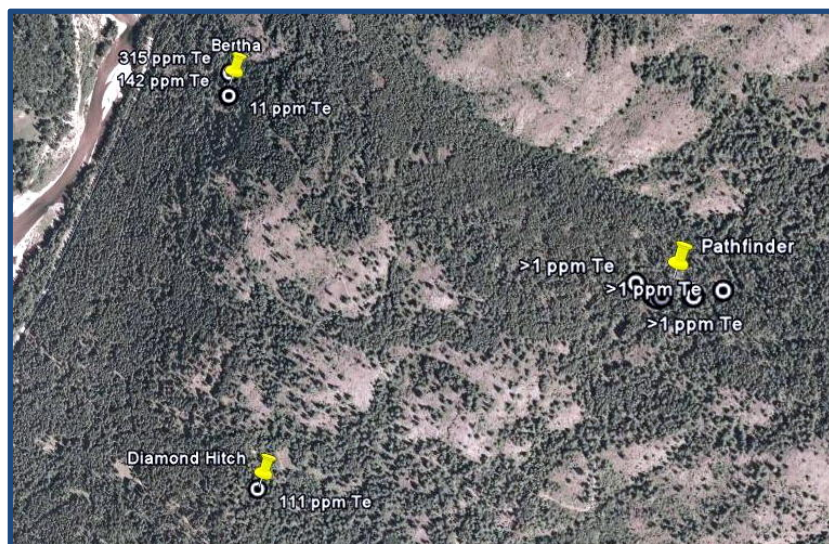
Pathfinder-Bertha-DiamondHitch

Date of latest review:

091003

Location:

Three claim groups – Pathfinder, Bertha, and Diamond Hitch – are located at latitude 49°11'28.65"N and longitude 118°25'17.22"W (UTM 397040-5449660) and 18 km north of Grand Forks, BC on the east side of the Granby River Valley. The Bertha occurrences are 0.3 km east of the Granby River, Diamond Hitch is 0.7 km east, and Pathfinder is 1.3 km east. All are accessible by logging and mining roads.

**Ownership:**

The claims are owned by John and Carole Kemp of Grand Forks, and as of October 2009 are held under option by Kingsman Resources of Vancouver.

Regional Geology:

High-grade gneisses of the Precambrian Grand Forks Group are overlain by the Paleozoic Knob Hill Group and the Triassic Brooklyn Formation, all of which are intruded by the Jura-Cretaceous Nelson-Rosslund granitics and younger Coryell Eocene subvolcanics. Regionally-compressive folds and thrust faults, and later pre-Eocene extensional faults, have deformed and tilted country rock, Jurassic intrusives and associated Au-Ag-Cu veins in the mining districts of the region, including Phoenix, Rosslund, and Pathfinder.

Deposit Geology:

The northerly-striking, near-vertical, Eocene Granby Fault juxtaposes Paleozoic Knob Hill Group and the Triassic Brooklyn Formation against Grand Forks gneisses within the subject claim group. Economically important Jurassic Nelson-Rosslund granodiorite-quartz monzonites (160 and 167 Ma) have intruded and altered the Paleozoic and Triassic country rocks. Younger, barren, Eocene Coryell intrusions are also present.

The Grand Fork gneisses and Coryell intrusions are not well altered or mineralized on the claims. By contrast, small, irregular stocks and dike-sill swarms of Jurassic Nelson intrusives are mineralized themselves or are responsible for mineralization in the adjacent country rocks; mostly in the Triassic Brooklyn Formation. Extensional tilting has altered the original orientation of Pathfinder's sulfide mineralization and the accompanying tellurides.

Three styles of intrusive-related mineralization and/or alteration are present at Pathfinder-Bertha-Diamond Hitch (Ray, 2009):

- 1) Massive pyrite-pyrrhotite veins, pods and replacements in altered country-rocks containing Cu-Au-Ag with garnet-pyroxene exoskarn and vaguely-bedded biotite hornfels. The skarns are generally overprinted by retrograde epidote, chlorite and actinolite. The Pathfinder locality is the most important example of this type. Some areas are variably silicified and quartz veined.
- 2) Vuggy quartz veins in granitics with variable pyrite-pyrrhotite-chalcopyrite-chlorite-sericite and Au-Ag-galena. The Little Bertha locality is the most important example of this type.
- 3) Massive garnet-clinopyroxene-epidote exoskarns are developed in calcareous country-rocks close to the plutonic intrusives, but lack metallic minerals.

Tellurium Mineralization:

Mineralogic character of Pathfinder's tellurium mineralization within or adjacent to the Bertha, Diamond Hitch, and Pathfinder quartz veins is unknown at this time.

Tellurium Grades:

Samples from low grade dumps, rock piles, and one erratic has produced a high value of 315 ppm Te and other values in the +100 ppm Te range. Values in excess of 1,000 ppm Te may be expected in the higher grade gold ores still resident in un-mined veins and un-mined portions of existing veins.

Previous Production/Activity:

BC Minfiles indicated 239 tonnes of ore were shipped from the Pathfinder claim from 1899 to 1916 with recovery of 746 grams of gold, 4,043 grams of silver and 2,330 kilograms of copper. Early development work to 1916 consisted of 3 shafts totaling 103 meters interconnected by some 244 metres of crosscuts and drifts.

In 1917, Pathfinder Consolidated Mining Company was formed to work both the Pathfinder and Little Bertha (082ESE074) claims: the Iron Bell and Derby claims were subsequently added to the company holdings. Intermittent work by the company was confined to the Little Bertha claim where a crosscut adit was begun in 1919; by 1932 the adit had been extended to 1,000 feet, Leasers worked the Little Bertha claim during the period 1937-39.

Reserves/Resources/Potential (Tellurium Only):

No reserves or resources yet, but potential for several hundred thousand tons of +500 ppm Te ore exists within multiple intrusive-hosted veins in the western portion of the Pathfinder-Bertha-Diamond Hitch claim group. This may be especially true for the low-lying area in and west of the Bertha-Diamond Hitch vein trend.

Recommendation For Further Evaluation:

Follow closely the ongoing 2009 surface sampling and mapping program being conducted by Kingsman Resources.

Tier Ranking

Pathfinder-Bertha-Diamond Hitch is a prospect with 50+ ppm Te sampled by WIM;

References:

Greig, C.J., S.T. Flasha and R.E. Greig, 2008 November 23, Pathfinder property - summary of previous work in the public domain, private report for Kingsman Resources, Vancouver BC, 23 pages, 13 figures.

Ray, G.E., 2009 June 22, Geology, mineralization & exploration potential of the Pathfinder Au-Ag-Cu property, Grand Forks area, southern BC, private report for Kingsman Resources, Vancouver BC, 12 pages, 7 figures.

| Sample | Prospect | ate/Prd | Lat-Long | Location | Description | Au ppb | Te ppm |
|----------|-------------|---------|-----------------------------|---------------------------------|------------------------------------|--------|--------|
| 90829.09 | Bertha-DHit | BC | 49 11 13.8 N, 118 25 29.8 W | Pile just W of filled shaft | Jss(QChl)80PyPyrr | 524 | 111 |
| 90829.10 | Bertha-DHit | BC | 49 11 43.2 N, 118 25 33.4 W | dump top | Kgd(Chl)2Py+QC | 1,400 | 11 |
| 90829.11 | Bertha-DHit | BC | 49 11 43.2 N, 118 25 33.5 W | dump face | Kgd(Chl)2Py+QC | 24,023 | 142 |
| 90829.12 | Bertha-DHit | BC | 49 11 45.0 N, 118 25 33.4 W | single rock small roadside port | QPy Gal vein | 87,179 | 315 |
| 90829.03 | Pathfinder | BC | 49 11 28.1 N, 118 24 47.6 W | Oucrop, main show | J _s (QC)20Py>70Ox | 244 | <1 |
| 90829.04 | Pathfinder | BC | 49 11 28.0 N, 118 24 48.1 W | Oucrop, main show | J _s (QC)PyPyrrGalAu | 1,028 | <1 |
| 90829.05 | Pathfinder | BC | 49 11 28.2 N, 118 24 48.5 W | Pitcrop downhill main show | J _s (Q)PyPyrr>70Ox + Qm | 2,197 | <1 |
| 90829.06 | Pathfinder | BC | 49 11 28.2 N, 118 24 44.6 W | Shaftcrop, N side | J _s (QC)10Py>50Ox + 10Q | 18,012 | <1 |
| 90829.07 | Pathfinder | BC | 49 11 28.1 N, 118 24 44.5 W | Shaftcrop, S side | J _s (QC)10Py>50Ox + 10Q | 825 | <1 |
| 90829.08 | Pathfinder | BC | 49 11 28.5 N, 118 24 41.6 W | erratics in filled shaft | J _s (QC)20Py>70Ox + 10Q | 12,605 | <1 |
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