

## Gus Property, Nelson M.D. Summary Report 2016

The Gus Property, which is located approximately 15 kilometres south of Salmo within an area of past mining and recent exploration, is contiguous on its north edge with Sultan Mineral's claims containing the historic Jersey Zn-Pb and the Emerald Tungsten mines. The district is tightly staked, but the 6.35 square kilometers Gus ground contains the only old mines south of the Jersey, and would be adequate for operational purposes. The property's potential is for very high grade gold-silver ore bodies accompanied by base metals, and broader zones of possible bulk tonnage ore.

The physiography of the area is characterized by a central, plus .5 kilometre wide, NE trending valley separating north and south upland areas. The valley is covered by deep glacial overburden, while the uplands are covered by alluvium of variable depth with sparse outcrop areas.

The property is located within the Kootenay Arc where it bends northeasterly from its predominant north trend. Paleozoic sediments, predominantly silty limestones and argillites, are found along the overturned west limb of the extensive, northerly trending southerly plunging Sheep Creek anticline. The anticline has resulted in steep northerly trending folding. It has been traversed by two northeasterly striking, southerly dipping thrust faults, which have resulted in northeasterly trending, overturned folding superimposed on the older folding. And the thrusts are cut by steep dipping, northerly trending transverse faults as well as by northwesterly striking faults and fracture zones. The thrust faults appear to be imbricate, so that the formations below and above their recognized surface traces are likely to be cut by related fault zones. Just south of the property is a small Tertiary Coryell alkaline stock, and within the south upland, dikes and sills of highly sheared monzonite and other intrusive rocks are seen.

The Gus's old mines and showings, all located in the southern upland area, have produced small amounts of very high grade gold-silver

ores characterized by fine grained, difficult to see metal sulfides. The Lone Silver Mine, one of the three old producers on the property, has a recorded production of 236 tons averaging .55 opt Au, 126.8 opt Ag, 3.7% Pb, 2.5% Zn and 2.5% Cu, while the Lucky Strike Mine, situated approximately 1.2 kilometres east of the Lone Silver, has produced 61 tons grading 1.29 opt Au and 34 opt Ag. Between the Lone Silver and Lucky Strike mines is the Davne Mine, which produced four tons of 2.75 opt Au and 43 opt Ag, and what we call the East Gold Anomaly where pockets of anomalous gold have been found over an extensive area.

Although production from the mines (almost all pre World War II) has been minor, there are reasons to believe that larger deposits might be found on the property. The Lone Silver Mine is located on the surface trace of the northeasterly striking, southerly dipping Black Bluff thrust fault, which marks the unconformable contact between the overlying, Middle Cambrian Nelway formation and the underlying, Middle Ordovician Active formation. Upper plate, fine grained tetrahedrite/galena ore occurs in shoots within an extensive geochemically anomalous dolomite breccia, which itself contains zones of bulk tonnage grade silver. As well, graphitic zones have been found to contain anomalous silver values. Both the breccia and graphitic zones appear to be alteration features controlled by faulting. Lower plate mineralization is associated with quartz veins in argillite. The Black Bluff fault trace is almost totally buried by deep overburden, its only exposure on the whole property being a very small area at the Lone Silver Mine. Only one hole has ever been drilled along the fault trace, which extends for several kilometres on the property, and it was lost before reaching bedrock. Moreover, the Lone Silver workings are shallow, and the fault remains to be tested down dip. Particular attention should be paid to intersections of northerly trending transverse faults with the Black Bluff fault.

In regard to the Lucky Strike mine; it is controlled by a narrow shear zone roughly following Lower Cambrian Laib formation phyllites. It

was mined by hand tooled trenches in 1938 over a length of about 30 metres to a total depth of six metres, and has never been tested deeper.

In regard to the East Gold anomaly; because of the fine grained nature of the mineralization, it is almost invisible, and would not have been noticed but for a soils geochemical line that crossed it. It has been tested by one drill hole, which intersected four separate weakly to strongly anomalous gold zones, three of them from 3.5 to +5 metres thick. The best assay was 2.1 ppm Au over one metre. The anomalous zones appear to be in highly sheared Nelway silty limestone cut by dikes and sills of monzonite(?).

A few hundred metres West of the Lone Silver workings is an extensive area which we call the West Geochemical Anomaly. It contains anomalous lead, silver and zinc zones, with sporadic gold values. The lead-silver-zinc is of interest because the anomaly borders the central valley under which the Black Bluff fault trace is buried by deep overburden.

Recently, we have carried out geochemical soils sampling in the northern upland area. This work has delineated extensive zinc-silver anomalies, which might indicate underlying Active formation sediments enriched in these elements.

The extensive, overburden-covered central valley remains to be tested by any effective method. With the mines and anomalies along the southern upland, and some extensive Zn-Ag soils anomalies in the northern upland, it is interesting to speculate whether there might be mineralized areas under the probably structural-controlled valley.

The Gus is an ongoing project.

The claims are owned outright by M, A. Kaufman 80% and Michael Cathro 20%.

## Contacts

M. A. Kaufman  
10805 East 23<sup>rd</sup> Ave.  
Spokane Valley, WA 99206-5677

509 924 7710  
[dv10@comcast.net](mailto:dv10@comcast.net)

Mike Cathro  
Cathro Resources Corp.  
2560 Telford Place  
Kamloops, BC V1S 0A3  
e-mail [mcathro@shaw.ca](mailto:mcathro@shaw.ca)