

823880  
82m/15w

**MINNOVA INC.**

DATE: October 1, 1989  
TO: Ian Pirie  
COPIES TO: Alex Davidson, Dave Heberlein  
FROM: Chris Wild  
SUBJECT: ENARGITE PROPERTY EXAMINATION

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I conducted a property examination of the Enargite showing on September 21, 1989 with part-owner Larry Ovington and again for sampling on October 1, 1989.

Location and Access

The Enargite claims are located 18km northeast of Barriere on the upper reaches of Birk Creek, a tributary of the North Barriere River. Access is by the paved Barriere Lakes Road and the North Barriere and Birk Creek logging roads. Subsidiary logging roads and skid trails provide excellent access to most of the claim block.

Topography and Climate

Most of the Enargite claim group lies on the south side of Birk Creek on a moderate north facing slope ranging from 1300m to 1700m in elevation. Vegetation consists of thick second growth with some dense spruce, balsam, and cedar stands. Climate is moderate with temperatures ranging from -25deg. C to + 35deg. C and moderate rainfall. Snow can be expected from November to May.

Claims

The latest claim information should be investigated. The claims were recently restaked by Larry Ovington and agents for Golden Bee (?) Resources who jointly own the claims. Representatives of the company were at the property on October 1 and expressed their intention of tracking down posts from the old two post claims to see what fractions are currently open. The totally imprecise location of the old claims on previous claim maps and assessment reports leaves the possibility for large gaps between Minnova claims to the west on the current Enargite claims.

## Property History

Work on the Enargite showing has been carried out intermittently since 1916. In 1972, 4.5 tonnes of ore containing 39.8 gpt Au, 707.9 gpt Ag, 27.4% Pb, 13.3% Zn, and .25% Cu was shipped to Cominco Ltd. Recent work has consisted of very poorly organized drilling and sampling programs. Little sense can be made of this work. The latest owners, Kam Creed Mines Ltd., apparently allowed the claims to lapse.

## Geology

The Enargite claims sit on the fault contact between argillaceous phyllites of unit EBP and cherty sediments and diorites of the Lower Fennell Formation. The exact location of this contact is uncertain, but is assumed to be the western extent of argillites and phyllites. The showing consists of quartz veins cutting highly contorted and folded argillites and cherty argillites. These quartz veins cut the primary foliation. Subsequent tectonic activity has folded and sheared these quartz veins. It is speculated that this secondary folding is the result of thrusting against the Fennell contact. Rigid intrusive sills and plugs appear to the immediate west of these argillites and include diorite and granodiorite likely related to the Baldy Batholith and felsic domes presumed to be part of Lower Fennell stratigraphy.

## Mineralization

The Enargite showing is a 30 to 50 cm thick white quartz vein hosting coarse grained galena and sphalerite with minor pyrite and chalcopyrite. Mineralization in the vein is very discontinuous and poddy. Metal values in these pods are likely to reach values reported from the 4.5 tonnes of ore shipped to Cominco (see above). Some of the barren quartz veins near the main showing are reported to run significant gold values. A showing is also reported on the north side of Birk Creek but was not visited. Apparently, it consists of several caved trenches with little to be seen now.

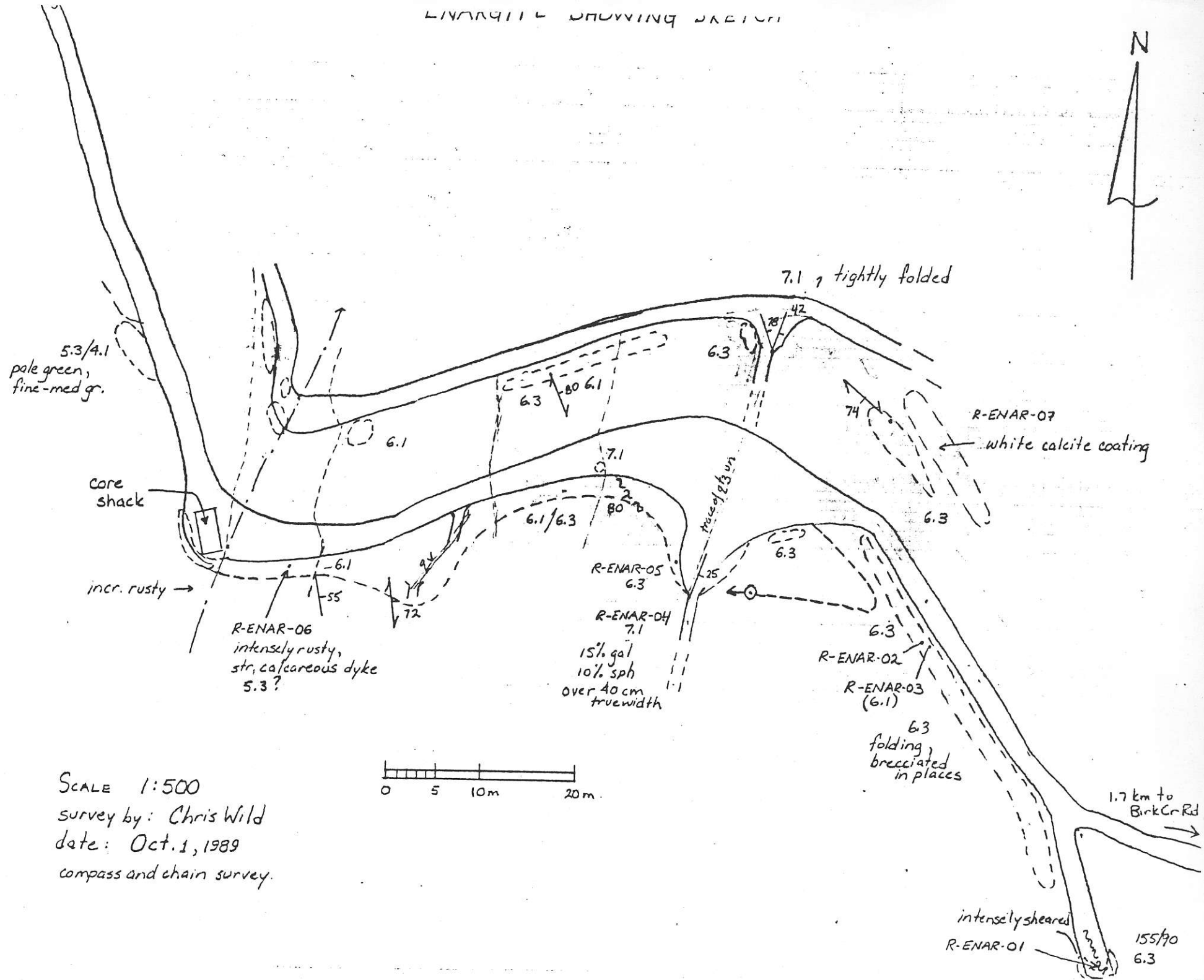
## Conclusion and Recommendations

The Enargite property occupies an area that is geologically poorly understood. However, the only target likely to be found on the claims is quartz veining, very variably mineralized. Unless gold values continue well into the wallrock a bulk tonnage mining situation is extremely unlikely. It should be emphasized however that previous work, especially recent work has been of extremely low quality and therefore the property has not yet been properly assessed. In conclusion, the potential for a significant deposit beyond sporadically mineralized quartz veins is remote. Therefore no further follow up can be recommended.

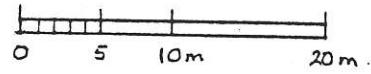
ROCK SAMPLES - ENARGITE SHOWING

- R-ENAR-01      argillite; dark grey, phyllitic, yellow-reddish weathering, highly contorted, beside crosscutting graphitic shear.  
-run for trace elements only.
- R-ENAR-02      argillite; black, tectonically brecciated, with white clay along microfractures; yellow-reddish weathering. Intensely folded, fractured, slickensided; hangingwall to main quartz vein.  
-run for trace elements only.
- R-ENAR-03      argillite; pale grey, intensely bleached to clays plus quartz; cut by very fine black stringer stockwork, possibly tourmaline. Orange limonite and carbonate weathering. 5% coarse cubic pyrite occurs as a rod structure in argillite.  
-run for standard litho package.
- R-ENAR-04      quartz vein; white rusty quartz hosting 15-20% galena, 5-10% sphalerite, 1% pyrite, very coarse grained.  
-assay for Pb, Zn, Ag, Au, Cu.
- R-ENAR-05      argillite; black to dark grey, intensely fractured, sheared, rusty; taken from immediate vein footwall.  
-run for trace elements only.
- R-ENAR-06      felsic dyke; intensely weathered, quartz carbonate altered medium grained dyke; 2-3% cubic pyrite, strong carbonate on rusty weathered surface; pale green Cr-mica mafics.  
-run for standard litho package.
- R-ENAR-07      argillite; black to dark grey, phyllitic, weak rusty weathering, highly contorted, cut by fine quartz stockwork and quartz veinlets, rusty carbonate pockets.  
-run for trace elements only.

ENARGITE SHOWING SKETCH



SCALE 1:500  
 survey by: Chris Wild  
 date: Oct. 1, 1989  
 compass and chain survey.



intensely sheared  
 R-ENAR-01 155/70  
 6.3