

CORPORATION FALCONBRIDGE COPPER

MEMORANDUM

*File
Tofino XTS*

DATE: April 7, 1986
 TO: D. H. Watkins
 COPIES TO: M. J. Knuckey
 DE FROM: A. J. Davidson
 SUJET SUBJECT: Bedingfield Property

Art Freeze of Cominco approached us in early 1986 regarding a possible joint venture of Cominco's Bedingfield Property on the west coast of Vancouver Island. A. J. Davidson and D. H. Watkins visited the property on April 1, 1986.

Target Volcanogenic massive sulphides hosted by Myra Fm. Sicker Group rocks.

Location The property is located at the extreme western end of the Bedingfield range on the west coast of Vancouver Island immediately north of Tofino, B. C. The property is accessible by air from Tofino or by boat and then 4WD from a logging camp adjacent to the property. The property has been partially logged off.

Claims The property consists of 15 claims totalling 284 units. Cominco optioned the core CYPRE 1 claim from four prospectors, then staked the surrounding 14 Bedingfield claims and included them in the deal.

In order to maintain their option Cominco must make the following payments.

<u>On or before</u>	<u>Payment</u>
January 31, 1987	\$30,000
January 31, 1988	\$36,000
January 31, 1989	\$48,000
January 31, 1990	\$54,000
January 31, 1991	\$500,000

Cominco would thus earn a 100% interest in the property subject to a 12% NPPR to the Vendors after recoupment.

History

No known exploration has taken place on the property previous to Cominco. Cominco acquired the property to cover a previously unknown 13km long belt of steeply dipping dacite-rhyolite pyroclastic and flow rocks on the Sicker Group.

Cominco carried out reconnaissance mapping and sampling during 1985. They discovered "two small stockwork style" polymetallic (Zn, Ag, Pb, Cu, Au) showings near extreme ends of the property (57,600 ppm Zn, 39 ppm Ag, 4120 ppm Pb, 269 ppm Cu, 100 ppb Au). Lithogeochemical sampling by Cominco turned up spotty but possibly significant Na depletion and K enrichment zones. Also spotty were the Cu and Zn highs.

Geology

Cominco has mapped the property as a series of steeply dipping rhyolite and dacite pyroclastics beneath essentially flatlying Karmutsen mafic volcanics and Buttle Lake limestone.

A. J. Davidson and D. H. Watkins carried out two reconnaissance traverses in different parts of the property. In the southeastern or main part of the property a large massive to flowbanded rhyolite dome was identified. Coarse, rhyolitic monomictic carapace or talus breccias were also found adjacent to the dome. Other rocks found in the section were silicified sheared zone of rhyolitic tuffs and black argillites containing up to 5% pyrite. A pyritic stockwork zone was also found developed in a more mafic flow that also contained "dalmatianite" type spotting.

Rocks noted in the northwestern part of the property consisted mainly of bedded and roughly sorted debris flows containing rhyolite, andesite and cherty clasts. Massive quartz eye rhyolite flows and ash tuffs also occur. Another large outcrop of dalmatianite occurs

on this part of the property and appears to be associated with some of the massive rhyolite. A flat lying thin unit (exhalative) containing disseminated pyrite occurs with the dalmatianite.

Another silicified zone containing thin stringers (or fracture controlled) of pyrite was found in blasted float near the south end of this part of the property.

Conclusions

From our traverses it is obvious that the property consists of a rhyolite dome complex flanked by carapace or talus breccias which grade outward to lapilli and ash tuffs. Interbeds of pyritic argillite may mark exhalative horizons and two stockwork pyrite zones and two associated dalmatianite alteration zones increase the potential for VMS deposits.

Potential exists on and flanking the dome(s) as well as in or around the recognizable exhalative horizons, in the vicinity of the pyritic stockwork and dalmatianite zones.

As no previous work has been done on the property excellent potential remains for the discovery of a VMS deposit similar to those occurring in the upper part of the Sicker Group at Buttle Lake. However it must be remembered that R. Walker indicated that no ore has yet been found on the uppermost rhyolite at Buttle Lake.

Discussion and Recommendations

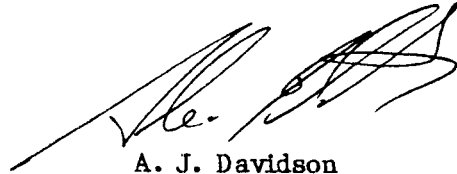
Cominco is proposing a deal whereby the incoming partner would match their previous expenditures (\$200,000) in order to earn a 50% interest in the property. Although this in itself is not bad the payments in the underlying deal are quite stiff.

BP SELCO already have a proposal on the table (they saw the property two years ago) and it is close to being accepted by Cominco.

I mentioned to Art Freeze (Cominco) that we were interested in the property and asked him to contact us if the BP Selco deal falls through.

I believe the property has good potential and that drill targets can be developed and tested before the heavier payments become due.

We should remain in contact with Cominco on this property and monitor its progress carefully.

A handwritten signature in black ink, appearing to read 'A. J. Davidson', with a large, stylized flourish extending to the right.

A. J. Davidson

Bedingfield Samples

- BD 1-4 Felsic (sericitic schist?) shear zones in felsic tuffs with 1-5% pyrite disseminated throughout
- BD 5 Pyritic argillite with 1-5% pyrite on fractures near the western margin of a dioritic intrusive
- BD 6 Sulphide samples from quartz pyrite stockwork in felsic to mafic volcanics with some chert
- BD 7 Massive rhyolite with quartz eyes and vitric fragments + 1% pyrite. Unit 1E
- BD 8 Flow banded rhyolite (1E) with 1% pyrite (burn)
- BD 9 Rhyolite breccia with sulphide rich clasts, poorly sorted, near monomictic, blocks up to .3m. Carapace/talus breccia from flow-banded rhyolite dome?

North Side Bedington

- BD 10 Quartz eye feldspar phyrlic rhyolite, unaltered
- BD 11 Quartz eye rhyolite with 1-2% sulphide (pyrite) slightly sericitic beside unaltered rhyolite.
- BD 12 Dalmatianite (andesitic?) large outcrop with mafic dyke.
- BD 13 Stratigraphic? horizon with disseminated pyrite on E side of stream in dalmatianite outcrop.
- BD 14 & 15 Sulphide rich (pyrite stringers < 1cm wide) along fractures in strongly silicified (quartz veinlets + stringers) quartz eye cherty rhyolite at the west end of the debris flow sequence. Forming new dome? No visible sphalerite, galena, chalcopyrite

except for oxidized pyrite which might be sphalerite. All in blasted (from road) float.

50' west of this rhyolite is more mix of black graphitic cherty argillite and white fragmental carapace/talus debris flow breccia.



LEGEND

- 4 JURASSIC Intrusions
- 3 Nanaimo Sediments
- 2 KARMUTSEN & BONANZA Volcanics
- 1 Sicker Volcanics & Sediments

VANCOUVER ISLAND

GEOLOGY

SCALE: 1:2,000,000