

Property name *NH* Author *R. V. Kirkham*

Mining division *Omineca*

Coordinates *54° 127° N.W.*

Geographic location *The showings are located between elevations of 3500 and 5500 feet ^{on a ridge} about 5 miles due south of the junction of Sandstone Creek and the Zymoetz River.*

Claims *76 recorded claims*

Access *23 miles by helicopter ^{west of Smithers} or about 3 miles hike from the end of the McDonald Lake road.*

Owners *L. B. Warren, A. S. Cope, and L. Gardiner*

Operator *Dome Babine Mines Ltd. (N.P.L.), 200-535 Thurlow Street, Vancouver 5*

Metals *Copper, silver*

Work done *Four trenches with a total length of 115 feet and 2 pits were drilled and blasted, and 4 diamond-drill holes totalling 1056 feet were completed. Induced polarization, geochemical, and geological surveys were also carried out. A crew ^{of an} average of 8 men under the supervision of M. J. Beley worked on the property for 2 months.*

References

Description

The area covered by the claims is underlain by relatively unmetamorphosed flows and tuffs of the Hazelton Group. In the vicinity of the showings the rocks strike about north 30 degrees east and dip about 30 degrees southeast. The flows are mainly green, grey, and purple, porphyritic, amygdaloidal andesites. Medium grained andesine and lesser clinopyroxene occur as phenocrysts, and calcite, chlorite, potash feldspar, epidote, and zeolites fill the amygdulae. Most flows are from 20 to 100 feet thick.

The tuffs are mostly various shades of red, purple, or grey and occur in both massive and well-bedded units. There are some welded tuffs scattered throughout the section. Most tuff beds are less than 100 feet thick. A 70 to 80 foot welded lapilli tuff horizon has been preferentially mineralized in the vicinity of the main showings.

Figure is a sketch of the showings. These showings have been designated the A, B, C, and D zones. At these occurrences there apparently has been both structural and stratigraphic controls ^{have been important} in the localization of the mineralization.

The A zone consists of bornite, chalcocite, and digenite (?) in fractures and calcite veinlets in the welded tuff unit adjacent to a fault. The ^{welded} tuff unit has been mineralized for over 100 feet northeast of the fault but the mineralization is most abundant in the fault zone and immediately adjacent to it. Trace amounts of chalcocite and galena ~~was~~ ^{are present} in a quartz carbonate veinlet near the fringe of the bornite and chalcocite mineralization. A chip sample taken across eight feet of the most highly mineralized portion of the fault zone assayed: Gold, trace; silver 6.0 ounces per ton; copper 3.51 percent. The results of assays ^{taken} across the entire A zone from the fault to the northeast are as follows:

	Gold (ounce per ton)	Silver (ounce per ton)	Copper (percent)
1. first 25 feet*	trace	2.6	2.47
2. middle 40 feet	trace	0.7	0.81
3. outer 32 feet	trace	1.2	0.78

* includes higher grade zone at the fault

The B zone consists of a brecciated portion of the favourable tuff horizon adjacent on the uplifted side of a small fault. The exposed area of the breccia is approximately 50 feet by 50 feet. Coarse grained calcite, ^{with very small amounts of disseminated chalcocite} forms the matrix of the breccia. ~~and~~ A grab sample from the breccia assayed: Gold, trace; silver, 0.3 ounce per ton; copper 0.53 per cent. Small amounts of fine grained chalcocite, bornite, and chalcocite are present in the tuff for about 100 feet southwest of the breccia zone.

In order to test the copper content of the host tuff horizon away from obvious mineralized zones, a chip sample of unaltered maroon tuff was collected about 170 feet southwest of the B zone breccia.

The sample ~~is~~ assayed: Gold, nil; silver, trace; copper, 0.07

per cent. Although ~~the~~

The C zone consists of one main steeply dipping one to eight inch high-grade chalcocite, bornite, digenite (?) vein and a few scattered associated veinlets. These veinlets are exposed near the top of the welded tuff horizon and seem to be restricted to it. Some chunks from the high grade vein assayed: Gold, 0.05 ounce per ton; silver 81.2 ounces per ton; copper 60.71 per cent. A semi-quantitative spectrochemical analysis indicated that the sample also contained a few ^{per cent} ~~small percentages~~ of arsenic and zinc and minor amounts of cobalt and cadmium.

At the D zone bornite and chalcocite occur disseminated and in small fractures, ^{and calcite veins} in altered lapilli tuff. Some small grains of native copper also occur at this locality but they may be secondary in origin. ^{Some} Quartz and potash alteration is apparent at this locality. A grab sample assayed: Gold, trace; silver, 0.3 ounce per ton; copper, 0.88 per cent.

Property Report (R.V.K.)

Recorder -

Date - July 5, 1970

Property or Mine Name - N. H. Group

Owner and Operator -

Metals -

Reserves (Published grades and tonnages) -

Location -

1. Prov. or Terr. - B.C.
2. Mining Division, Township, County, District, etc. -
3. N.T.S. - 93 L/13 Lat. - $54^{\circ}45'$ Long. - $127^{\circ}45'$

Access -

History -

1. Exploration (dates, trenching, drilling, underground, geochem, geophys, geol., etc)
2. Production (dates)
3. Present status

References -

Geology

1. General Deposit Type (vein, stockwork, breccia pipe, fault zone, stratiform, massive replacement, etc - strike and dip)
2. Mineralogy - (zoned, crustiform layering, etc. - actual or relative %'s)
 - primary
 - secondary
3. Host Rocks (age, lithology, structure, metamorphism, alteration - % ore in contact with various rock units - fault and bedding strikes and dips, etc.)
4. Regional Tectonic Setting
5. Age of Host Rocks, nearby Rocks, Ore & Metamorphism (palaeontological and radiometric) -

6. Assay Data - (i.e., precise chemical information) -

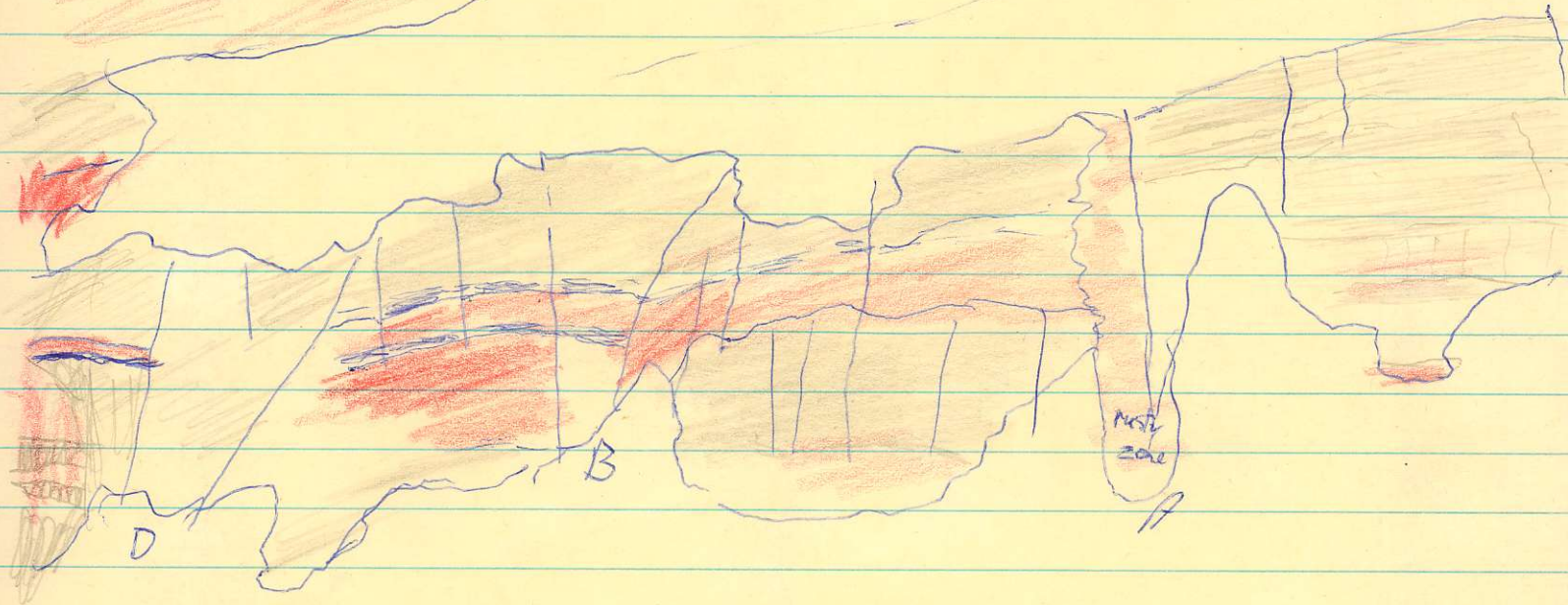
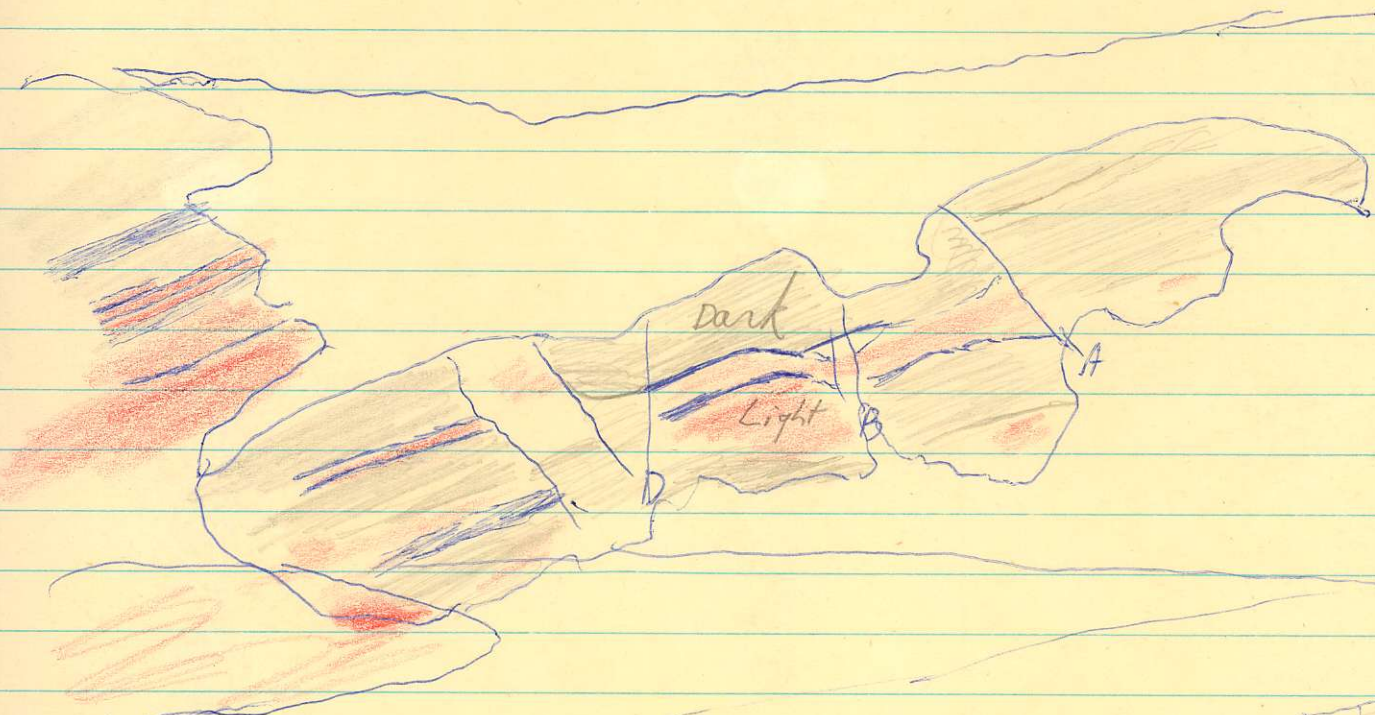
7. Trace Element Data -

8. Silicate Analyses -

9. Isotope Data -

10. Miscellaneous -

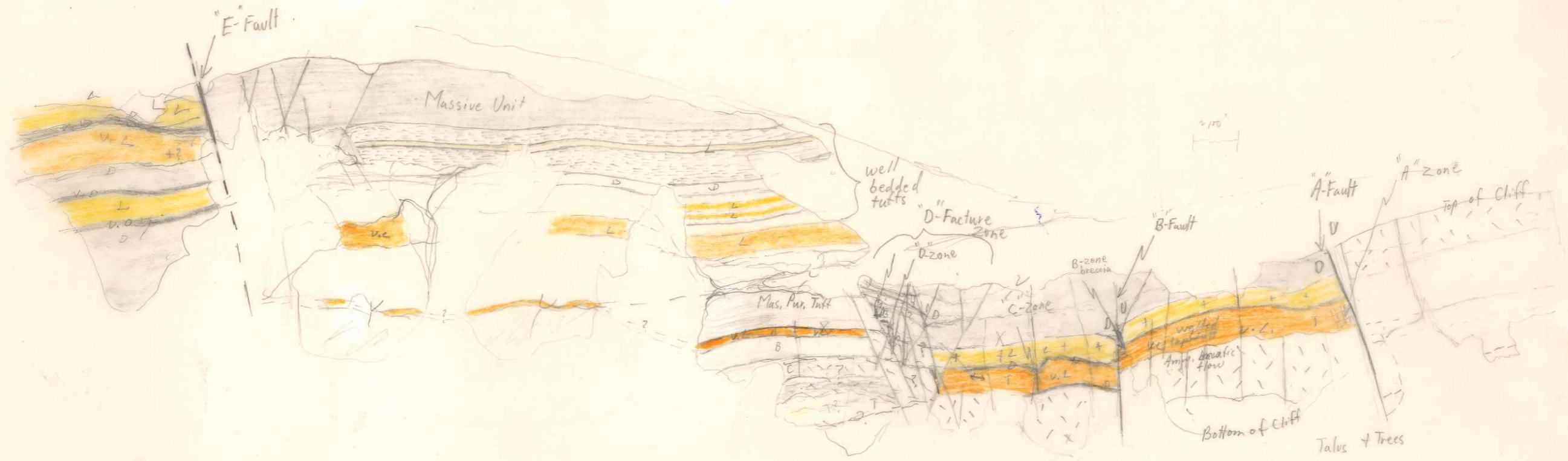
Tracing From Photos of NH Showings



$$100 \times 50 \times 1000 = 5,000,000 \text{ cubic feet}$$

500,000





Sketch of NH Group Showings

Looking SE

Sketch of Cliff Face on NH Property