

MINERALIZATION

Four areas of mineralization are shown in Figure 2. In all of these pyrrhotite is by far the dominant sulphide. Subordinate amounts of chalcopyrite, sphalerite, pyrite and minor galena locally produce ore grade hand specimens but it is doubtful a bulk sample of all the sulphides observed would run in excess of 1% combined Cu-Zn.

The two southernmost showings at present are less than 1' wide and neither is traceable over more than a few feet. The most southerly of these appears to have been exhausted by a 12' long trench outside which abundant specimens rich in Cu and Zn are present.

Within the upper adit the thickest concentration of sulphides are found. From the back of the adit 6' of low grade pyrrhotite-pyrite-chalcopyrite-sphalerite mineralization within cherty argillite quickly grades into a 6' lens of essentially massive pyrrhotite. This lens is separated from another 2' wide sulphide lens by a bed of cherty argillite. The sulphides pinch out sharply over a 20' strike length to a 6" - 1' thick sulphide horizon which strikes up the hill for over 100' (as shown in Figure 2).

At the showing in the creek two 2' beds of massive pyrrhotite-pyrite (2-3% chalcopyrite) are separated by 1 1/2' of chert. The showing is visible over 15' of strike length but disappears under stream debris at either end. Examination of outcrop further along strike limits its maximum dimension to about 50'.

ECONOMIC GEOLOGY

The showings located to date are small in size and on average low in grade. However, their position within a pause in andesite flow activity represents a classic volcanogenic-massive sulphide environment and as such should be actively pursued. Assay results for 3 of the 4 showings discussed above are listed in Appendix III. Results are considerably higher than field estimates.

PROPERTY FILE

APPENDIX III

ASSAY RESULTS

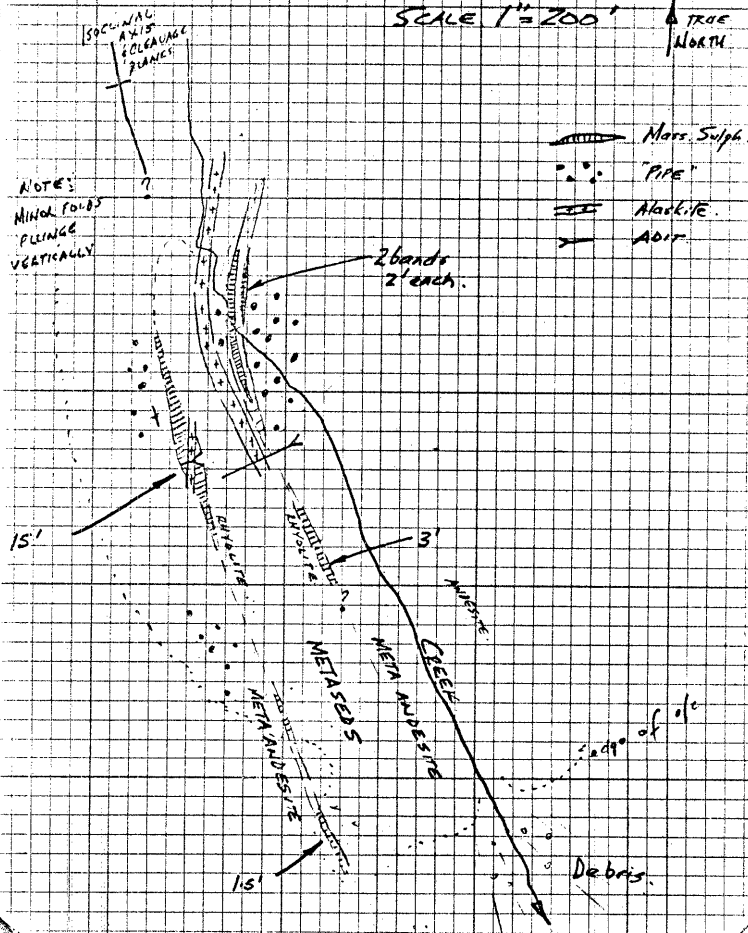
| <u>SAMPLE LOCATIONS</u> | <u>Cu</u> | <u>Pb</u> | <u>Zn</u> | <u>Ag oz/ton</u> | <u>Au oz/ton</u> |
|--------------------------------|-----------|-----------|-----------|------------------|------------------|
| 1+00W 1+44S 1' width | .175 | .14 | 2.70 | .37 | .019 |
| 1+30W 3+00S 1'-2' width | 4.650 | .23 | 5.90 | 1.78 | .016 |
| Upper Adit (8' chip sample) | 5.350 | .09 | 1.86 | 1.35 | .018 |

COPPER CLIFF PROPERTY

(Main Fork Cooper C. W. of Garden)
Otto Jenout

at 2000 dm / 2000 dm / 10,000 Jan 78 etc.
85-15 → 5% buoyant

SCALE 1" = 200' TRUE NORTH



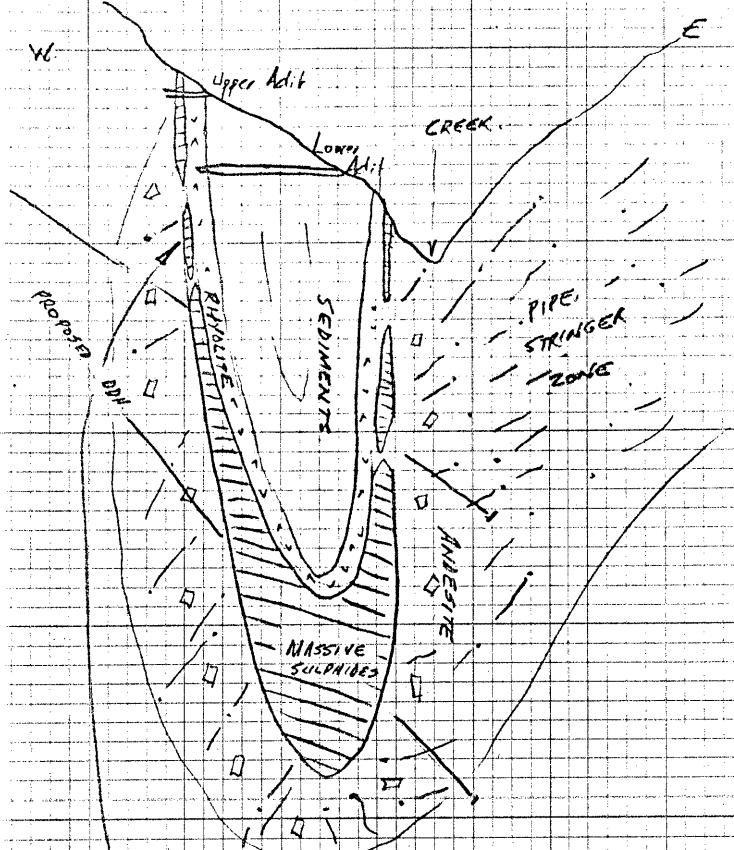
NOTE:
MINOR FOLDS
PLUNGE
VERTICALLY

STRUCTURAL
AXIS
CLEARANCE
PLUNGE

- Moss Sulph.
- "PIPE"
- Maskite
- ADIT

COPPER CLIFF.

IDEALISED X-SECTION



① STRETCHING OF LIMBS
& BOUNDAGE
DEVELOPMENT
∴ POD-LIKE NATURE
OF
SULPHIDES.

② MINERALISATION
IS MASSIVELY BANDED
P, S, Z, S.
EST GRADE:
3-4% CU
2-3% ZN
0.08% AU ± Ag.

PROPOSED WORK PROGRAM.

1. 1976 - Preparation of 1"=100' base map.
- Detailed Geology ± Map (2)
- Cost \$5000.
2. 1977 - Diamond Drilling
3 holes totalling ± 3000'
Cost ± \$60,000.

Total option pm's ± \$5000. to end of 2.

CLAIMS.

Crown grants # 8793 OCT. 9 Anniversary.
8794
Map. 82 K/3E
Main Fork of Cooper Creek.
SE of Mt Cooper