

CORPORATION FALCONBRIDGE COPPER

FILE
MEMORANDUM

DATE: January 12, 1987
A TO: A. J. Davidson
COPIES A COPIES TO: D. H. Watkins
DE FROM: H. L. Gibson
SUJET SUBJECT: Proposed Spring Drill Program, Mt. Sicker Project

82715

A spring drill program totalling 1525m in 5 holes is proposed. Proposed holes test integrated geological/geochemical/geophysical targets and follow-up mineralization encountered in previous drill programs within the Mine Package on the north slope of Mt. Sicker (PF Horizon - P1), at Mona (P2) and in the Central Panel (P3). Holes P4 and P5 test stratigraphy to the Myra - Nitinat contact (H-W horizon) within the core of the Mt. Sicker anticline and along the north-south margins of a graben-like structure bounded by the Nugget Creek and Mine faults respectively. Details of individual drill holes are contained in Table 1 and their location illustrated in Figure 1.

Harold Gibson

TABLE 1

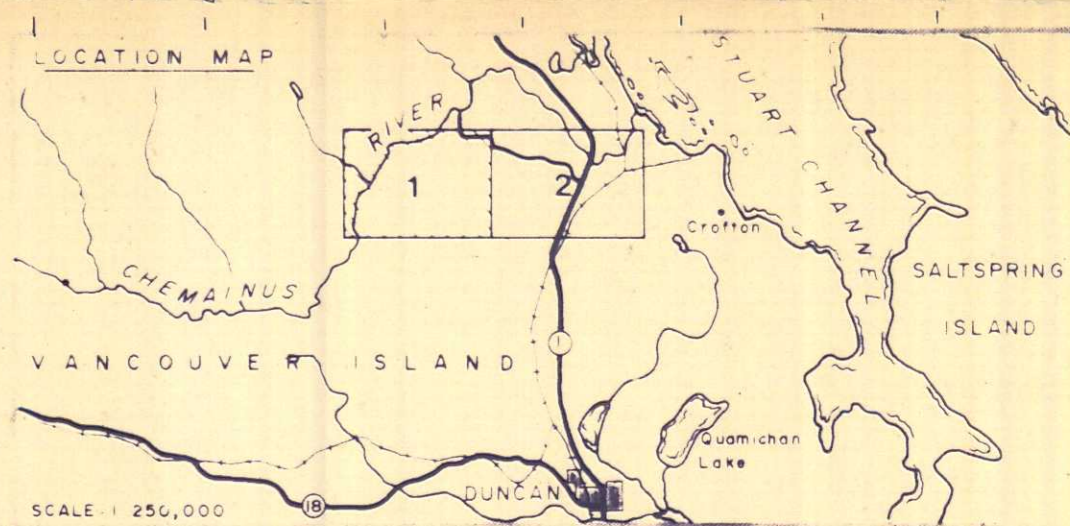
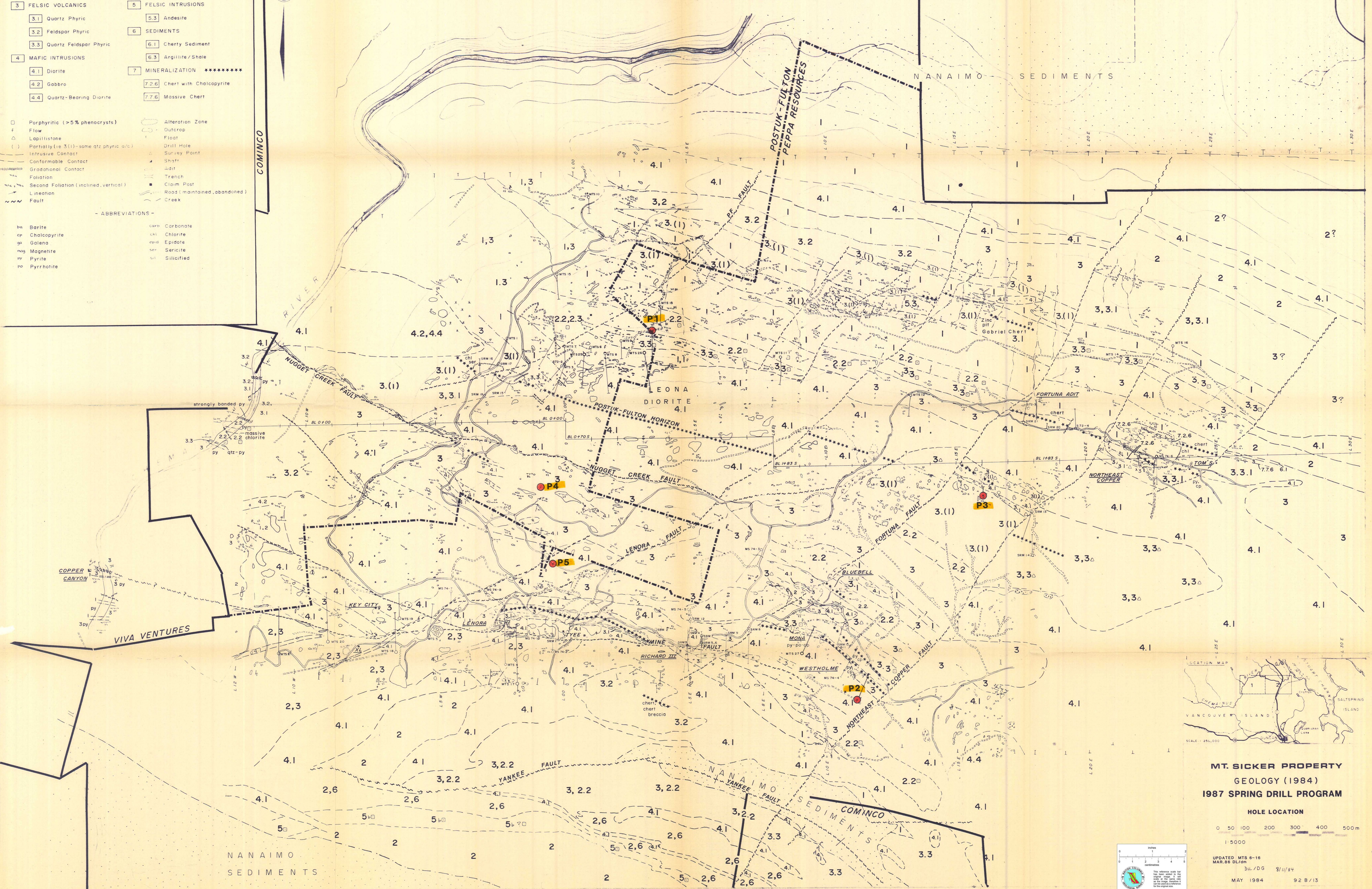
PROPOSED DIAMOND DRILL HOLES, MT. SICKER

<u>Hole No.</u>	<u>Length</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Easting</u>	<u>Northing</u>	<u>Cost (\$)*</u>	<u>PN</u>	<u>Comments</u>
17-28 P1	200m	50	180	3+50E	3+45N	18,000	304	P1 will test the projected up-dip extension of a strong (+35%) pyrite - pyrrhotite - chalcopyrite stringer zone where it intersects the base of an overlying QFP flow.
31 P2	175m	50	25	11+00E	10+85S	15,750	305	P2 will test the faulted eastern extension of the Lenora-Tyee Mine Package 1km east of the former mine and 250m southeast of MTS-27. MTS-27 intersected significant zinc mineralization (0.21% Zn/1.2m; 5.70% Zn/0.07m) within QP crystal tuffs of the Mine Package.
32 P3	150m	-75	0	16+00E	3+10S	13,500	305	P3 will test the shallow south-dipping Mine Package below a strong surface Ba anomaly between the Fortuna - Northeast Copper Faults and immediately north of the Nugget Creek fault.
-29 P4	500m	90	--	1+00W	2+50S	45,000	305	P5 will test volcanic stratigraphy to the Myra-Nitinat contact (H-W horizon) below areas of strong surface mineralization and alteration south of the Nugget Creek fault. P5, contingent upon results of P4, will test the same stratigraphic package below the former Lenora-Tyee deposits.
-30 P5	500m	90	--	0+55W	5+45S	45,000	305	
	<hr/> 1525m					<hr/> 137,250		

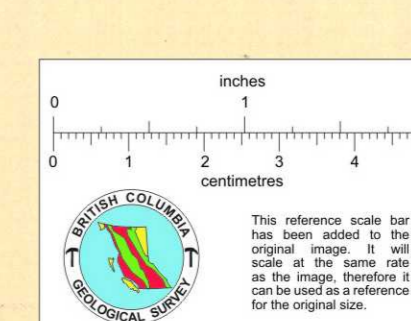
(* Cost estimate @ \$90.00/m, includes acid tests, geochem etc.)

- LEGEND -

- | | |
|----------------------------|-------------------------------|
| 1 MAFIC VOLCANICS | 5 FELSIC INTRUSIONS |
| 2 INTERMEDIATE VOLCANICS | 5.3 Andesite |
| 2.2 Feldspar Phyric | 6 SEDIMENTS |
| 3 FELSIC VOLCANICS | 6.1 Cherty Sediment |
| 3.1 Quartz Phyric | 6.3 Argillite/Shale |
| 3.2 Feldspar Phyric | 7 MINERALIZATION ***** |
| 3.3 Quartz Feldspar Phyric | 7.2.6 Chert with Chalcopyrite |
| 4 MAFIC INTRUSIONS | 7.7.6 Massive Chert |
| 4.1 Diorite | |
| 4.2 Gabbro | |
| 4.4 Quartz-Bearing Diorite | |
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- | | |
|--|--------------------------------|
| □ Porphyritic (>5% phenocrysts) | ○ Alteration Zone |
| △ Flow | ○ Outcrop |
| △ Lapillistone | ○ Float |
| () Partially (ie 3.1) - some atz phyric a/c | ○ Drill Hole |
| — Intrusive Contact | △ Survey Point |
| — Conformable Contact | — Shaft |
| — Gradational Contact | — Adit |
| — Foliation | — Trench |
| — Second Foliation (inclined, vertical) | — Claim Post |
| — Lineation | — Road (maintained, abandoned) |
| — Fault | — Creek |
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- ABBREVIATIONS -
- | | |
|-----------------|----------------|
| ba Barite | carb Carbonate |
| cp Chalcopyrite | chl Chlorite |
| ga Galena | epd Epidote |
| mag Magnetite | ser Sericite |
| py Pyrite | sil Silicified |
| pr Pyrrhotite | |



**MT. SICKER PROPERTY
GEOLOGY (1984)
1987 SPRING DRILL PROGRAM**



UPDATED MTS 6-16
MAR.88 DL/dm
DL/DG 8/1/84
MAY 1984 92 B/13