

CORPORATION FALCONBRIDGE COPPER

FILE
MEMORANDUM

DATE: April 25, 1986
TO: A. J. Davidson
COPIES TO: H. L. Gibson
DE FROM: D. V. Lefebure
SUJET SUBJECT: 1986 Proposed Drill Programme for the Mt. Sicker Property

827148

Sixteen drill holes totalling 4,525 m. are proposed to test the best targets on the Mt. Sicker Property. The direct drilling cost for these holes is estimated at \$300,000. This drill programme targets the following areas:

- i) Northeast Copper Horizon - 3 holes, 850m;
- ii) Gabriel Horizon - 3 holes, 750m;
- iii) Mona Horizon - 2 holes, 525m;
- iv) Mine Horizon - 2 holes, 1000m;
- v) western extension of Mine Horizon (Key City)
- 2 holes, 375m;
- vi) Killer Gossan - 2 holes, 500m; and
- vii) Postuk-Fulton Horizon - 2 holes, 525m.

A complete list of all the holes is given in Table 1. The results of these holes will undoubtedly require follow-up with further drilling. Go for it guys!



David V. Lefebure

DVL/ik

Table 1. Proposed Diamond Drill Holes for Mt. Sicker Property

<u>Hole No.</u>	<u>Depth (m)</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Easting</u>	<u>Northing</u>	<u>Direct Drilling Cost</u>	<u>Comments</u>
P1	200	-50	180	24+00E	0+90S	13,200	Three holes are proposed to test the <u>Northeast Copper Horizon</u> downdip of surface showings of chert with pyrite and chalcopyrite stringers. Massive sulphide boulders from Tom's Shaft on this horizon contain up to 0.43% Cu and 1.0 g/T Au. The host lithologies are intensely altered to chlorite with strong sodium depletion (0.2%). The strongest Dighem and Deepem anomalies on Mt. Sicker correspond with the Northeast Copper Horizon.
P2	150	-50	180	19+00E	0+60N	9,900	
P3	500	-45	180	24+00E	3+85N	33,000	
P4	250	-60	180	16+00E	5+25N	16,500	Three holes are proposed to test the <u>Gabriel Horizon</u> in an area with anomalous litho-geochemical values (Zn, Ba, Au, Na ₂ O) and associated Dighem anomalies. The third hole will be located near an I.P. anomaly with a chargeability of 23.1 milli-seconds and a resistivity of 950 ohm-metres.
P5	250	-45	180	13+60E	6+00N	16,500	
P6	250	-45	180	11+00E	6+50N	16,500	

<u>Hole No.</u>	<u>Depth (m)</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Easting</u>	<u>Northing</u>	<u>Direct Drilling Cost</u>	<u>Comments</u>
P7	225	-50	0	8+50E	9+25S	14,850	Two holes are proposed to test the <u>Mona Horizon</u> . Pyrite, pyrrhotite and chalcopyrite boulders on the Mona dump come from the Mona Horizon. A surface exposure of the chert exhalative horizon with pyrite and chalcopyrite contains up to 1.64% Cu, 0.02% Zn, 19.5 g/T Ag and 1.35 g/T Au. The footwall felsic rocks are altered to sericite with associated sodium depletion.
P8	300	-50	0	10+50E	10+25S	19,800	
P9	600	-70	0	0+00E	10+50S	39,600	Two holes should be drilled to test for ore at depth down dip from the <u>Lenora-Tyee Mines</u> . These holes would provide conduits for PEM coverage. Hole P9 is located to intersect the "mineralized rock, carrying sulphate of barium and also values in copper, gold and silver" reported from the Tyee 1000', 1150' and 1250' levels.
P10	400	-75	0	2+44W (same set-up as MTS 4)	9+00S	26,400	
P11	125	-45	0	7+00W	7+50S	8,250	Two holes are proposed to test for the <u>Mine Horizon</u> near the Key City shaft. Six feet of gouge and black graphitic schist underlain by mineralized schists and green schists were identified in the underground workings. Both holes will test an I.P. anomaly with high chargeabilities (>26.5 milli-seconds) and low resistivities (<650 ohm-metres).
P12	250	-55	0	6+00W	9+50S	16,500	

<u>Hole No.</u>	<u>Depth (m)</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Easting</u>	<u>Northing</u>	<u>Direct Drilling Cost</u>	<u>Comments</u>
P13	250	-50	0	38+50E	4+25S	16,500	It is recommended that two holes be drilled in the <u>Killer Gossan</u> area to test the I.P. anomaly and the Killer Chert horizon. This is the strongest I.P. anomaly on the Mt. Sicker Property and is associated with copper soil anomalies.
P14	250	-50	0	40+00E	5+00S	16,500	
P15	225	-45	180	3+00E	2+70N	14,800	Two holes are proposed to test the <u>Postuk-Fulton Horizon</u> along strike of chert and semi-massive sulphide intersections in MTS 3 and MTS 8. The best assay from MTS 3 is 2.15% Cu, 0.05% Zn, 10.5 g/T Ag and 0.25 g/T Au over 0.5m. In MTS 8 anomalous Cu (up to 0.52% Cu over 3.5m) and Zn (up to 0.18% Zn over 2.3m) is associated with 15m of chert.
P16	300	-50	180	8+00E (same set-up as MTS 11)	2+22N	19,800	
Totals	<u>4,525</u>					<u>\$298,650</u>	