

CORPORATION FALCONBRIDGE COPPER  
EXPLORATION

Memorandum

82/147

Date: November 13, 1985

To: A.J. Davidson

Copies To: file

From: D. Lefebure

Subject: Changes to Sept., 85 Drill Hole Proposal, Mt Sicker Project

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The location and orientation of some of the Mt Sicker drill holes proposed in my memo dated September 23, 1985 have been changed:

- (i) to ensure that CFC holds the base metal rights;
- (ii) to minimize the destruction of timber (MNC owned);
- (iii) to avoid the GD diorite; or
- (iv) to facilitate setting up the drill.

The new hole locations are listed in Table 1. Only holes P8 and P11 have been moved any substantial distance from their original proposed locations. The results from drilling the initial holes could require modifying the dip of holes P2, P3 and P6 and possibly result in an alternate set-up for P6. All drill holes will intersect the target horizon on claims owned by Peppa. Postuk-Fulton of Fording Coal (Table 2). You have seen all the set-ups for holes P1 to P7.

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Table 1 Proposed Diamond Drilling Holes for Mt. Sicker Project

<u>Hole No.</u>	<u>Depth(m)</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Grid Coordinates</u>	<u>Direct Drilling Costs</u>	<u>Comments</u>
P1	<b>300</b>	<b>-85</b>	180	21+00E <b>2+12N</b>		Three holes are proposed to test the Northeast Copper Horizon 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	300	-60?	180	19+ <b>88E</b> <b>3+33N</b>		
P3	<b>270</b>	<b>-90?</b>		23+00E <b>2+00N?</b>		
P4	400	<b>-75</b>	180	<b>8+00E 2+22N</b>		Two holes are proposed to test the eastern extension of the Postuk-Fulton Horizon between the two showings beneath the diorite. These holes will be 500m from the nearest hole. Both holes will intersect the horizon downdip of footwall sodium depletion and weak geophysical anomalies.
P5	300	<b>-70</b>	180	<b>13+00E 0+70N</b>		
P6	500	-80	180	<b>1+63E 4+08N</b>		Two holes are proposed to test the Postuk-Fulton Horizon downdip 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. These holes will also be testing a broad off-hole EM 37 anomaly found in MTS 8.
P7	<b>600</b>	<b>-90</b>		<b>3+50E 4+12N</b>		
P8	250	-60	0	<b>7+50E 9+10S</b>		Two holes are proposed to test the Mona Horizon. 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.
P9	250	-60	0	10+50E 10+25S		
P10	250	-60	<b>180</b>	13+60E 6+00N		Two holes are proposed to test the Gabriel Horizon in an area with anomalous lithochemical values (Zn, Ba, Au, H <sub>2</sub> O) and associated Dighem anomalies.
P11	250	-60	<b>180</b>	<b>16+00E 15+25N</b>		
Totals	<b>3,670</b>				<b>\$234,000</b>	<b>P6 alternate 500 -90 3+50E 5+25N</b>

Table 2.

Ownership of Claims to be Drilled on Mt. Sicker, Fall 1985

<u>Hole</u>	<u>Claim</u>	<u>P.M. Rights*</u>	<u>B.M. Rights*</u>	<u>Surface Rights‡</u>	<u>Comments</u>
P1	Rocky 5	Peppa	<del>A.N.C.</del> F.C.	<del>F.C.</del> M.N.C.	- base metal boundary (bmb) is R2, 4
P2	CF Group 18 OR Rocky 5	Peppa	F.C.	M.N.C.	- bmb R2, 4
P3	Rocky 5	Peppa	Peppa	M.N.C.	- bmb R3, 4
P4	CF Group 3 OR CF Group 2	Peppa	F.C.	M.N.C.	- bmb R1, 4
P5	CF Group 5	Peppa	F.C.	M.N.C.	- bmb R2, 4
P6	Queen Bee	Postuk-Fulton	<del>Gov't</del> Gov't	Postuk-Fulton	- bmb Queen Bee
P7	CF Group 2	Peppa	F.C.	M.N.C.	- bmb Nome
P8	Richard III	Peppa	C.I.P.	Peppa	- bmb Richard III
P9	Westholme	Peppa	C.I.P.	Peppa	- bmb Westholme
P10	CF Group 16	Peppa	F.C.	M.N.C.	- bmb York
P11	CF Group 16	Peppa	F.C.	M.N.C.	- bmb R2, 4

P.M. = precious metal

B.M. = base metal

F.C. = Fording Coal

~~C.I.P.~~ C.I.P. = CIP Forest Products Ltd

~~bmb~~ bmb = base metal boundary

\* - at target location

‡ - at collar location

David Lefebvre  
Oct. 22, 1985