

CORPORATION FALCONBRIDGE COPPER **FILE**

MEMORANDUM

DATE: September 12, 1986
TO: D. H. Watkins
COPIES TO: H. L. Gibson
DE FROM: A. J. Davidson
SUJET SUBJECT: Heather Project - 1986 Drill Proposal

826365

Approximately 30km of linecutting, VLF and mag, detail geologic mapping and rock sampling have been carried out this year by CFC on the Main Shear Zone portion of the Heather property. This work has been supplemented by about 15km of time domain dipole-dipole IP. These surveys have resulted in several excellent geological/geophysical/geochemical anomalies.

Two strong geologic features trend across the grid and both may relate to the Shear Zone and its associated gold mineralization. The first is a linear belt of strong quartz-pyrite veining which trends west from the Main Showing south of the baseline to Line 12 W where it crosses the baseline and begins to trend more northerly. All of the anomalous (>10 ppb) Au values are located in this zone. The second feature is a strong IP chargeability high/resistivity low which also trends west from the Main Showing but north of the baseline to Line 12 W where it merges with the quartz pyrite zone. This IP high is also coincident with a strong VLF anomaly. Drill targets thus exist in the quartz pyrite zone alone, along the IP anomaly and where the two are coincident.

Ten holes totalling 1200 metres are proposed. These holes will test the Shear over a strike length of 1350 metres and to a depth of up to 100m.

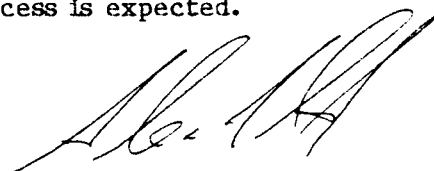
P1 (1750W, 250N grid S, -50°, 100m) will test a strong IP anomaly within the quartz pyrite zone located near an anomalous (215 ppb) Au value.

P2 and P3 (1450W, 100N, grid S, -50°, -70° 250m) will test a strong IP anomaly coincident with extremely anomalous gold (5000 ppb) and base metal (800 ppm Cu, 388 ppm Zn, 5 ppm Ag) values in the quartz-pyrite zone.

P4 and P5 (1300W, 70N, grid S, -50°, -70° 250m) will also test a strong IP anomaly coincident with anomalous gold (15 ppb) and base metal (100 ppm Cu, 380 ppm Zn, 2 ppm Ag) values within the quartz pyrite zone.

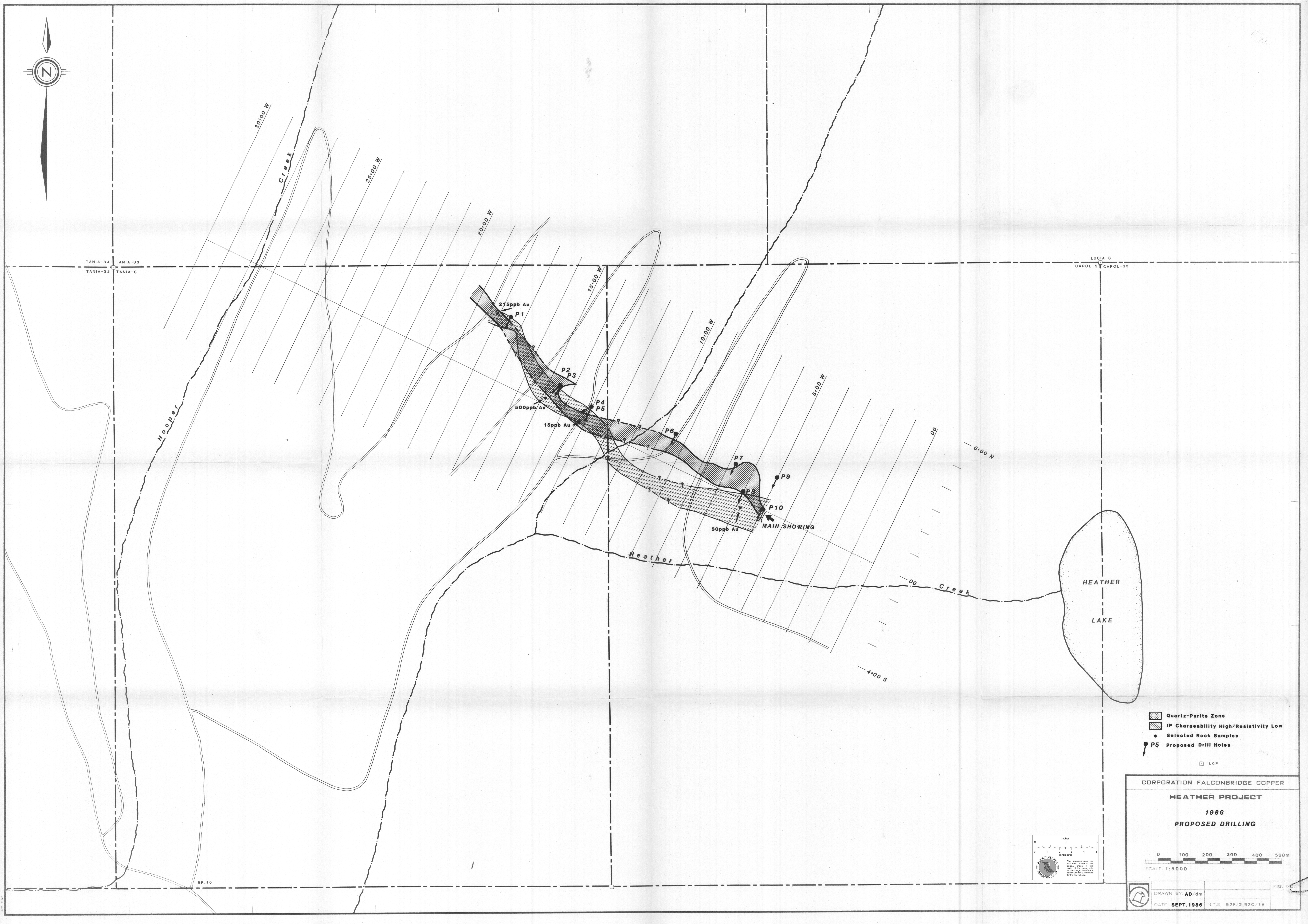
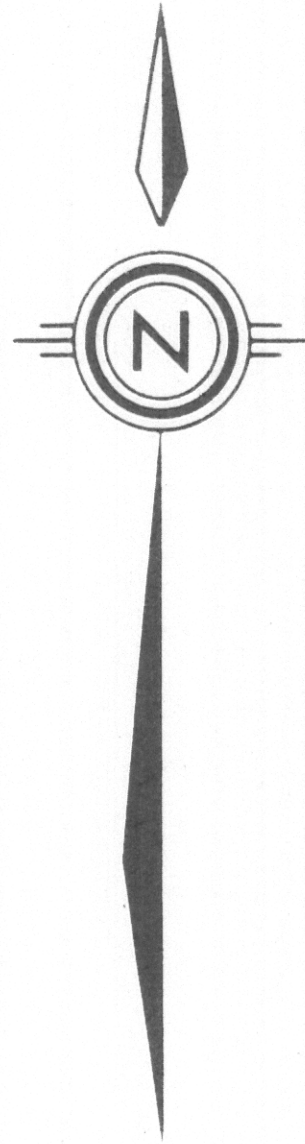
- P6 (L950W, 120N, grid S, -50° 100m) will test a strong IP-VLF anomaly outside of the quartz-pyrite zone.
- P7 (675W, 120N, grid S at -50° 100m) will test the strongest coincident IP and VLF anomaly in an area of carbonate alteration.
- P8 (600W, 020N, grid S at -50° , 100m) will test a gold (20-50 ppb) and base metal (5000 ppm Cu, 185 ppm Zn, 1.9 ppm Ag) lithogeochem anomaly in the quartz-pyrite zone.
- P9 (500W, 150N, grid S at -50° , 225m) will test both the IP anomaly and the Main Showing at depth.
- P10 (500W, BL, grid S at -50° , 75m) will test the downdip extent of the Main Showing at a depth of less than 50m.

This program will initially test the best IP/VLF and geochemical/geophysical targets on the Shear Zone. Early success is expected.



A. J. Davidson

AJD/ik



- Quartz-Pyrite Zone
- IP Chargeability High/Resistivity Low
- Selected Rock Samples
- P5 Proposed Drill Holes

LCP

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HEATHER PROJECT

1986

PROPOSED DRILLING

0 100 200 300 400 500m

SCALE 1:5000



DRAWN BY: AD/dm

DATE: SEPT. 1986 N.T.S. 92F/2,92C/18

FIG. N