822902

CORPORATION FALCONBRIDGE COPPER

MEMORANDUM

DATE: August 23, 1984
À TO: D. H. Watkins
COPIES À COPIES TO: M. J. Knuckey, L. D. Pirie
DE FROM: A. J. Davidson
SUJET SUBJECT: SEPTEMBER 1984 DRILL PROPOSAL - REA GOLD OPTION

Eight drill holes totalling 1250 metres are proposed to test geological, geophysical and geochemical targets on the Rea Gold Option. Four holes (620m) are designed to test down dip of the previous drilling and known mineralization. Three holes (425m) will test a potential new chert exhalite - Rea Breccia horizon in areas of anomalous and coincident VLF and geochemical responses. One hole (200m) will attempt to intersect the Rea horizon under deep overburden along strike northwest of the Rea deposits. All holes will be lined with plastic pipe to enable PEM surveying.

Specific proposals are:

P1 (L9800 at 130N; -90° 200m.) will intersect the Rea Breccia/Hangingwall Contact (Rea Contact) (Fig. 1) on L9800 at -175m. This hole will test the RG27 offhole PEM anomaly encountered at -150m. in RG27. P1 will also test a steep northwest plunging trend defined by previous holes which intersected either massive or stockwork mineralization. PEM surveying of P1 will extend PEM coverage to the southeast.

P2 (L9600 at 065N -90° 170m.) will test downdip of RG24 and will test for the extension of the Rea horizon underneath the diorite/Lower Mafic found in outcrop on line 96 (Fig. 2). P2 will intersect the Rea Contact on L9600 at -100m. (Fig. 1). Interpolation from Sections 9650 and 9600 indicate that the horizon should continue at depth. Probing of P2 will complete PEM coverage to L9500.

Recommended
1, 3, 7, ? by phone to MJK
on Sept. 14
- approved verbally by MJK

P3 (L10100 at 180N -90^{o} 110m.) will test downdip of RG13 and will intersect the Rea Contact on L10100 at -225m. (Fig. 1). This hole will also test a steep northwest plunging trend defined by the massive sulphide outcrops on L100 and stockwork mineralization intersected in holes RG2-RG5. The same steep northwest plunging trend is also defined by the thick zones of Rea Breccia (Fig. 3). Probing of P3 will extend PEM coverage to L102.

P4 (L10300 at 180N -90^{o} 140m.) will test downdip of RG15 and intersect the Rea Contact on L10300 at -320m. (Fig. 1). RG15 showed extremely intense sericite alteration in the Sam pyroclastics and had some noise (0.16% Cu, 0.82% Zn, 0.59% Pb, 6.8 ppm Ag and 0.4 ppm Au/0.3m.) in the Rea Breccia. Probing of P4 will complete PEM coverage to L10400.

P5 (L10600 at 270N -80^{o} 200m.) will test a Dighem anomaly and a VLF anomaly 600 metres along strike to the northwest from the L100 lens (Fig. 4). Heavy overburden is present in this area and it is not known if the VLF response is from a bedrock source. Due to a complete lack of geological information northwest of L10300 two holes may be needed to establish the stratigraphy on this line.

P6 (L9400 at 400N -50^{o} 200m.) will test a strong VLF anomaly which coincides with an anomalous Cu-Ag soil anomaly in the area of a new zone of chert exhalite (Rea Breccia?) 400m. north of the Rea Contact. The hole is planned to test the VLF anomaly at a depth of -75m. (Fig. 5).

P7 (L9900 at 525N -60^{o} 125m.) will test the top of the new zone of chert exhalite (Rea Breccia) and a coincident VLF and soil geochemical anomaly 500m. north of the Rea Contact (Fig. 6).

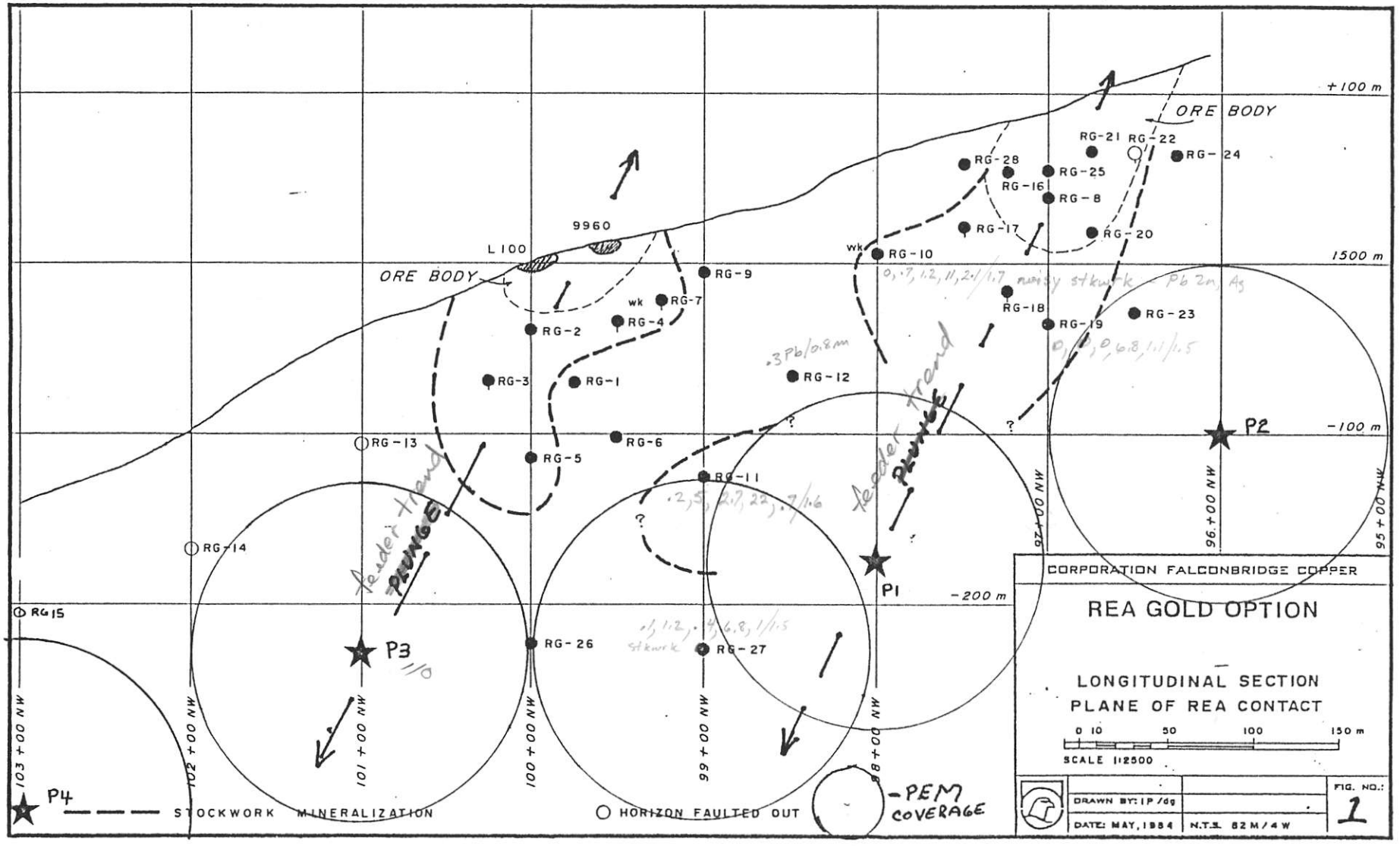
P8 (L9900 at 650N -60^{o} 100m.) will also test a VLF and soil anomaly ear the base of the new zone of chert exhalite (Rea Breccia) 500m. north of the Rea Contact (Fig. 6).

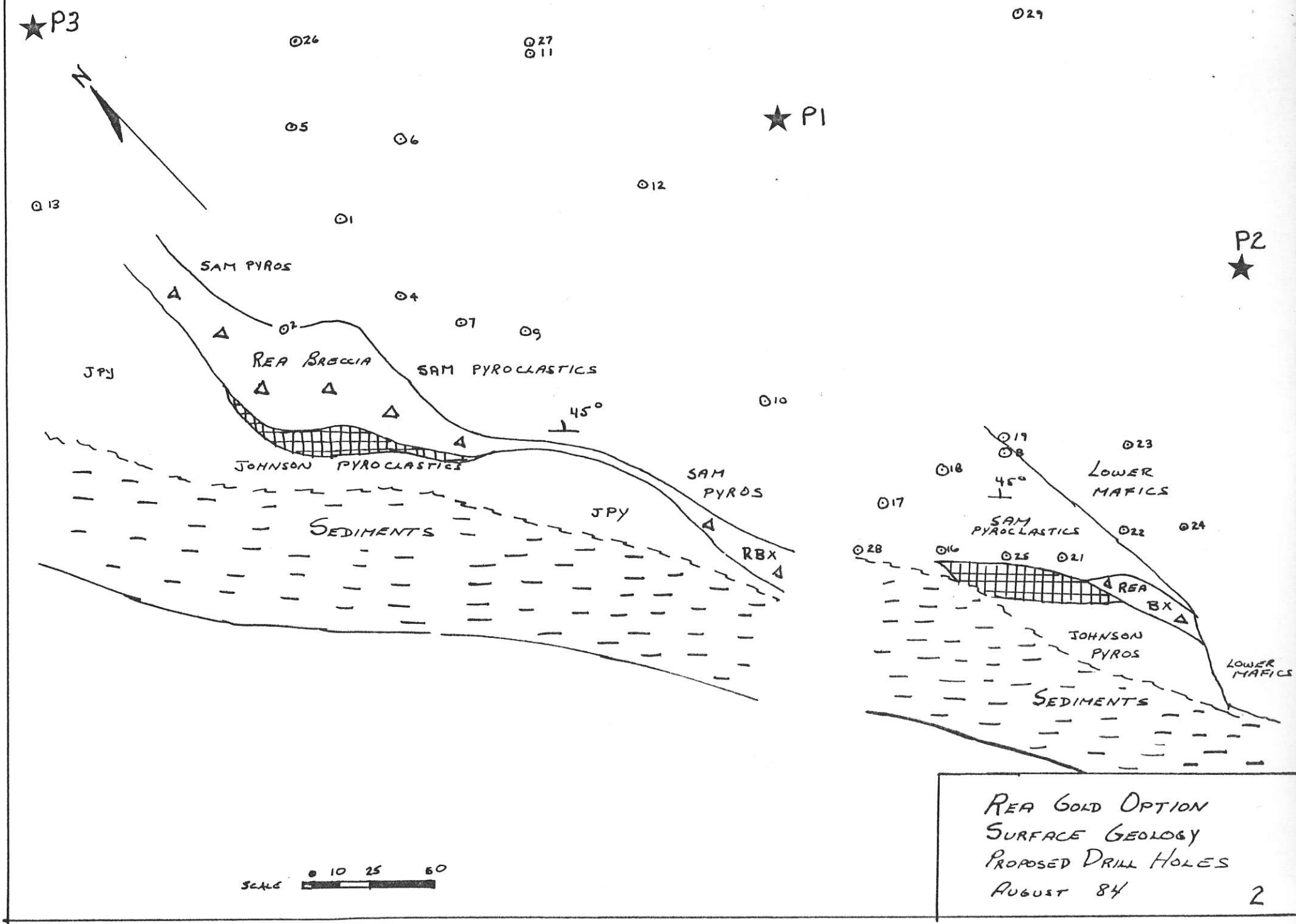
The above holes are designed to test for new lenses of massive sulphides both along strike and downdip of the presently known lenses as well as lower in the stratigraphy. The holes will also extend the presently known limits of the Rea stratigraphy and will provide PEM coverage to a depth of about 300m. over a strike length of 900m. Additional holes to test Dighem responses through to L11300 were not able to be included due to budgetary restrictions. Total contractor cost for the program will be approximately $85,000 and the total all in cost is budgeted at $85/metre or $106,250.

A. J. Davidson

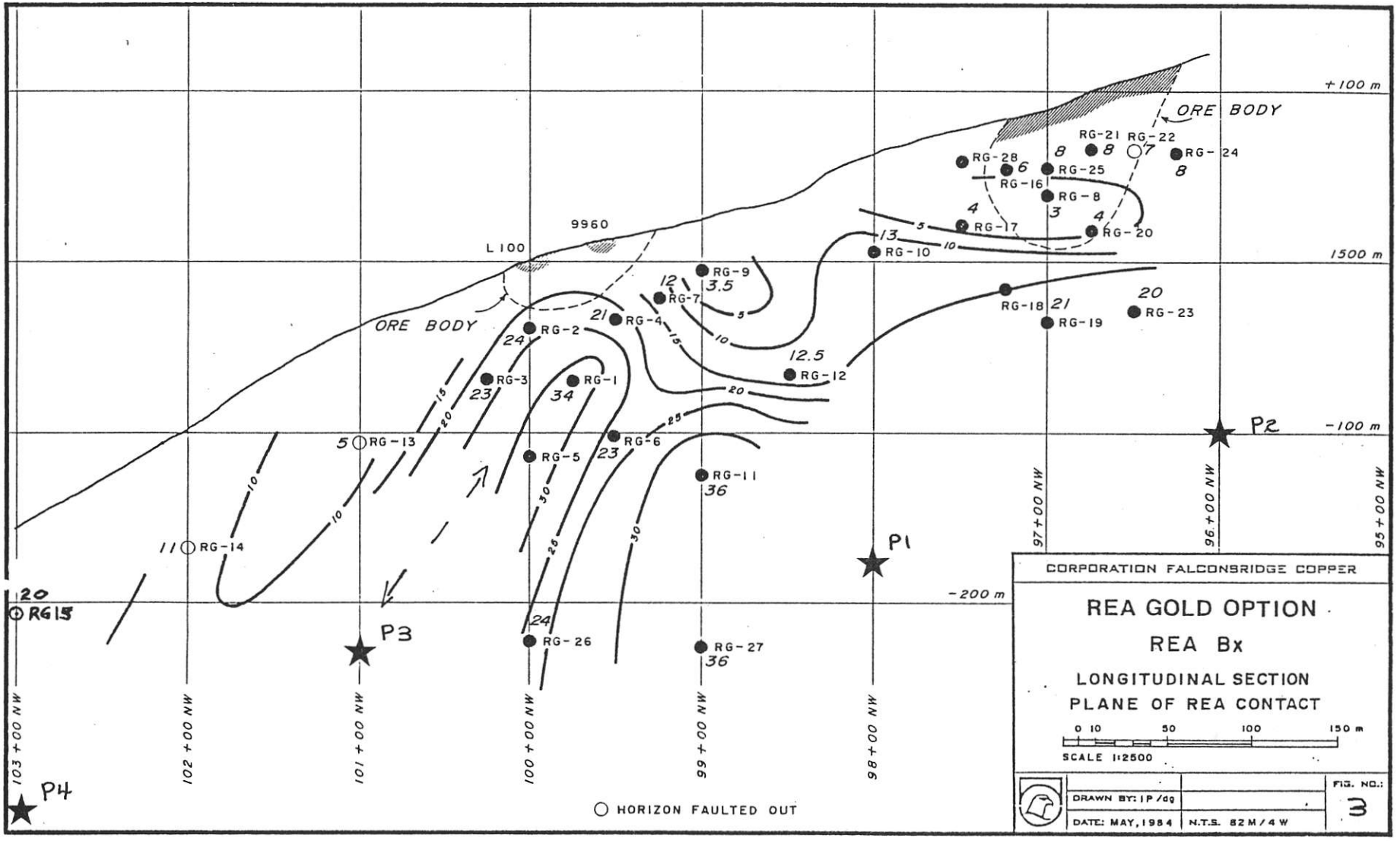
AJD/ik

Cu, Zn, Pb, Ag, Au / m.





REA GOLD OPTION
SURFACE GEOLOGY
PROPOSED DRILL HOLES
AUGUST 84


+100 m
1500 m
-100 m
-200 m
ORE BODY
ORE BODY
9960
L 100
RG-1
RG-2
RG-3
RG-4
RG-5
RG-6
RG-7
RG-8
RG-9
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RG-26
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RG-28
P1
P2
P3
P4
97+00 NW
96+00 NW
95+00 NW
103+00 NW
102+00 NW
101+00 NW
100+00 NW
99+00 NW
98+00 NW
○ HORIZON FAULTED OUT
CORPORATION FALCONBRIDGE COPPER
REA GOLD OPTION
REA Bx
LONGITUDINAL SECTION
PLANE OF REA CONTACT
0 10 50 100 150 m
SCALE 1:2500
DRAWN BY: IP/dg
DATE: MAY, 1984
N.T.S. 82M/4W
FIG. NO.: 3

S

200N

N

TB

DIGHEM

VLF

P5

L106

probable deep ob

PROJECTION OF
REA BRECCIA FROM
LINE 10300

projected
from Rea Longon

-100

-200

200 m

200
125
100

REA GOLD OPTION

DRILL HOLE P5

LINE 10600

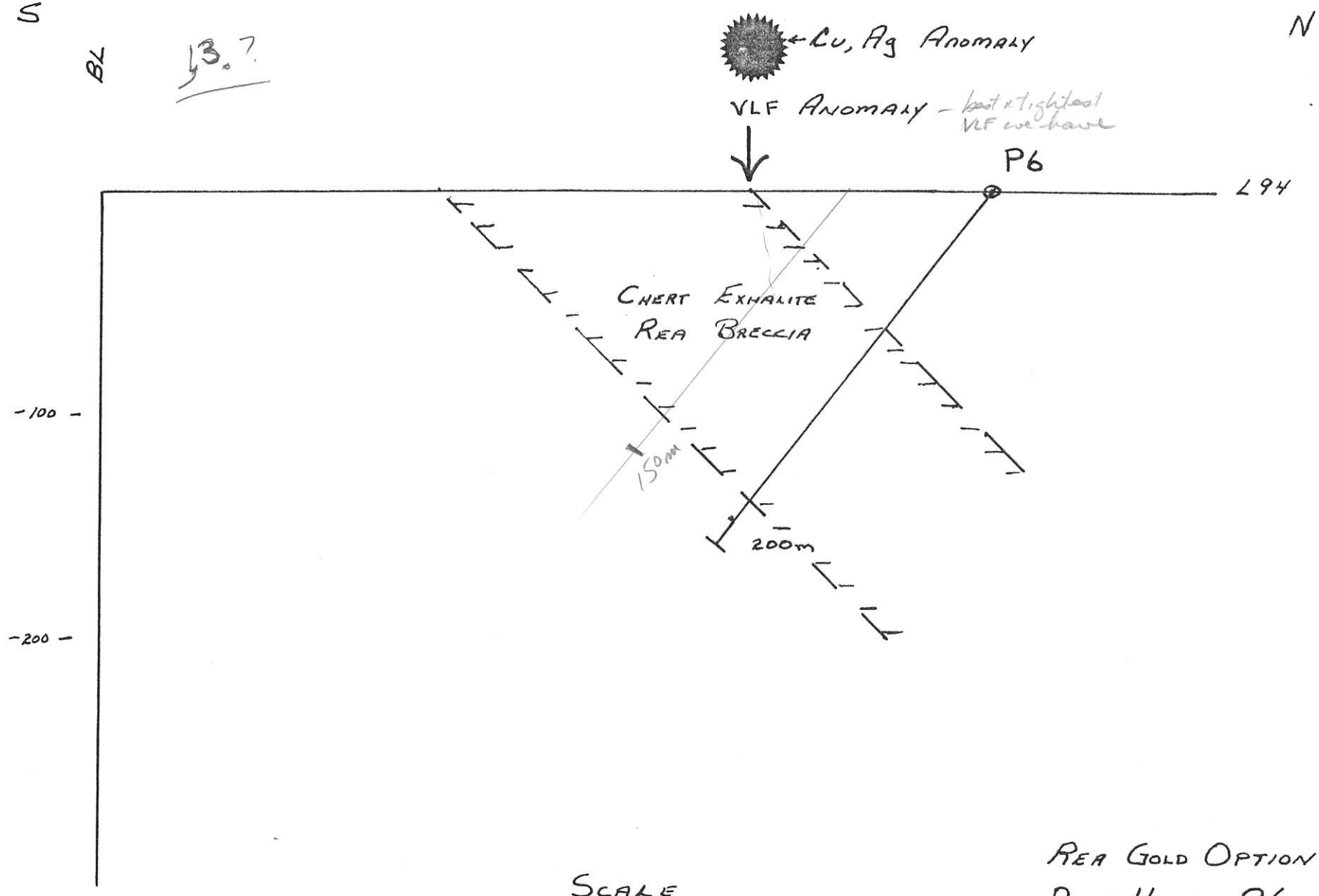
AUGUST 1984.

SCALE

0 25 50 100

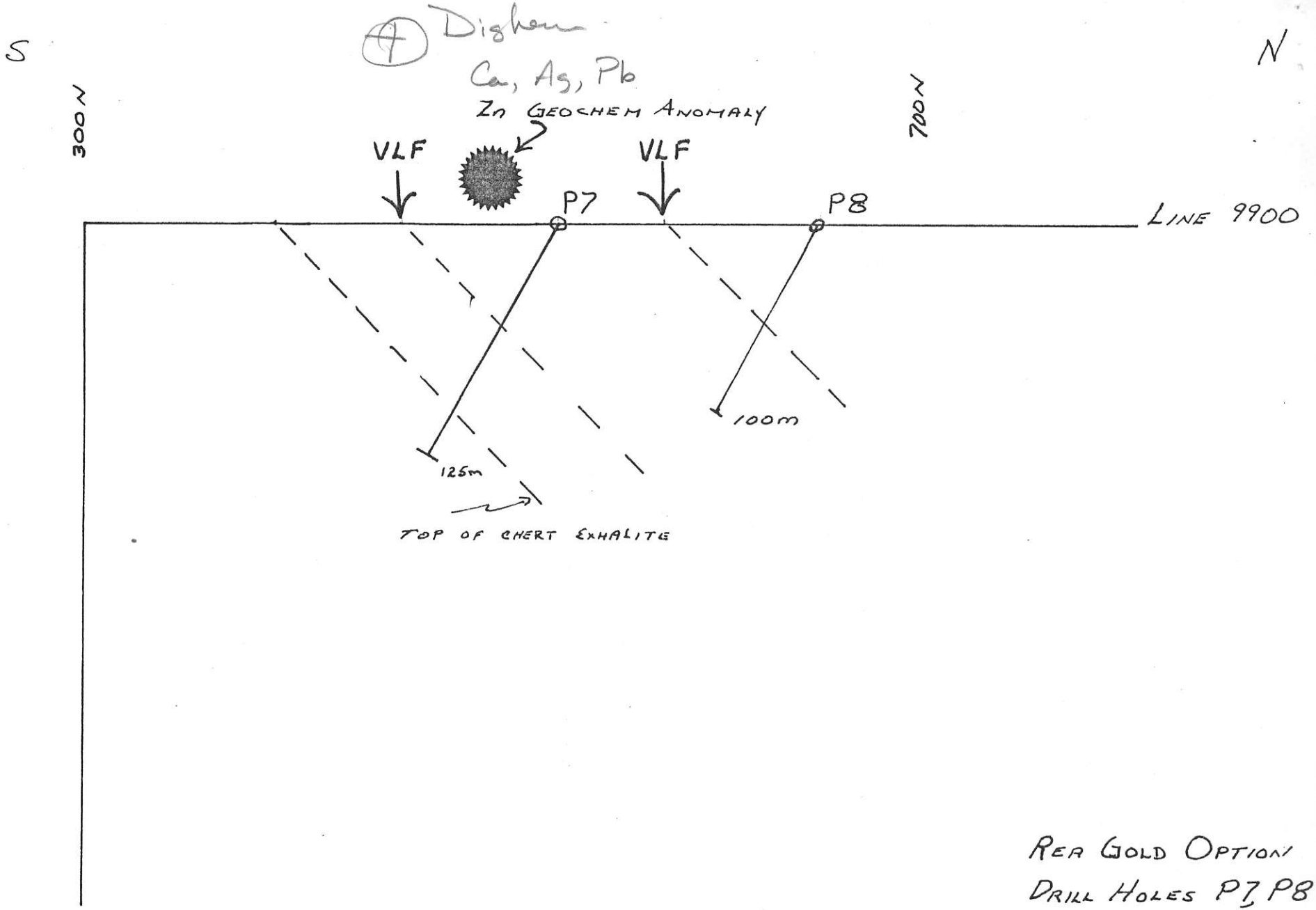
1:2500

FIG 4



Rea Gold Option
Drill Hole P6
Line 9400
August 1984

Fig 5



REA GOLD OPTION
DRILL HOLES P7, P8
LINE 9900
AUGUST 1984

FIG 6