

## CORPORATION FALCONBRIDGE COPPER

MEMORANDUM

DATE: May 21, 1985  
A  
TO: A. J. Davidson  
COPIES TO: M. J. Knuckey, D. H. Watkins  
DE FROM: L. D. Pirie  
SUBJECT: Rea Gold Drilling Summary and Proposal for Follow Up

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During February and March, 1985, five (5) more holes were drilled on the Rea Gold property. These holes, RG 33, 34, 35, 36 and 37, are located on the accompanying compilation map. Each provided it's own little surprises which may be summarized as follows:

RG-33 (L99+50, 3+90N)

- revealed the considerable thickness of what we have termed the 'Lower cherty unit'
- Max Min anomaly was graphitic argillite within the chert
- down dip extension of the Rea Horizon was present, but dead

RG-34 (L104, 1+90N)

- Rea Horizon still present, albeit somewhat further north than anticipated, but only very weakly mineralized
- Max Min anomaly was graphitic argillite in the stratigraphic hangingwall

RG-35 (L91, 5+83N)

- encountered a significantly thicker sequence of footwall pyroclastics than anticipated and failed to intersect the Rea Horizon at depth
- intersected a mineralized chert horizon higher in the hole which returned 0.39% Cu, 1.14% Pb, 5.14% Zn, 30.9 g/T Ag and 0.2 g/T Au over 15cm

RG-36 (L91, 3+50N)

- encountered the horizon discovered in RG-35 up dip, but it was only weakly mineralized

RG-37 (L106+75, 9+90N)

- encountered an identical sequence of rocks to those in the original discovery area and returned 0.38% Cu, 0.92% Pb, 1.59% Zn, 0.04% As, 168 g/T Ag and 0.3 g/T Au over 2.7m including 0.72% Cu, 2.74% Pb, 3.97% Zn, 0.05% As, 607 g/T Ag and 0.7 g/T Au over 0.5m.

Sections for 33, 35/36 and 37 are appended (Figs. 1, 2 and 3).

In addition, holes RG-33, 35, 36 and 37, along with RG-30 from the previous drill program, were PEM surveyed. Plots are appended. Results may be summarized as follows:

RG-30

3 channel in hole on all loops. Off hole response in later channels on W loop.

RG-33

Optimum response off of South loop. Strong in hole/off hole response corresponding to graphitic argillite at 157m. 4 channel off hole response at 275m. Weak off hole (3 ch) at Rea Horizon (390m)

RG-35, 36

Probably just a weak 'sheet' response corresponding to the upper horizon intersected at approx. 390m. Distinctly stronger response from the west loop on RG-35.

RG-37

Appears to be a conductive overburden effect at the top, but building up to an offhole below the hole?

Based on these results the following follow up holes are proposed:

P1 (L105, 9+20N, -70°, 100m)

This will intersect the RG-37 zone 175m along strike to the southeast. At this point the Max Min anomaly has a better conductance and in phase/quad. ratio than at 37 (see Fig. 4). Also the footwall soils are

anomalous in Pb and As and the footwall basalts show Na depletion and Zn enrichment.

P2 (L106, 75, 10+40N, -89°, 165m)

This will test down dip on the RG-37 zone which returned 0.38% Cu, 0.92% Pb, 1.59% Zn, 168 g/T Ag and 0.3 g/T Au over 2.7m.

P3 (L108, 6+30N, -60°, 125m)

This hole will test a coincident Max Min anomaly and strong Zn in soil response on the lower chert horizon. The fact that this anomaly is Zn only is probably due to the depth of overburden and Zn mobility in the surficial environment. The Max Min response is shown on Fig. 4.

P4 (L99, 3+10N, -89°, 250m)

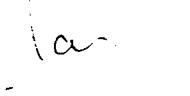
This hole will test an off hole PEM response in RG-33 with coincident highly anomalous base and precious metals at what appears to be a brand new horizon within the main mineralized area (see Figs 1 and 5). PEM responses indicate that the source of the anomaly is up dip from 33. Corroborating evidence is available from PEM data for RG-30 and RG-27 (Fig.6) (surveyed 1984), both of which give off hole responses which appear to be too low in the stratigraphy to be the Rea horizon. A check of holes which intersected this postulated new horizon near surface confirms the presence of thin cherty horizons and particularly strong sericitic alteration.

P5 (L94, 3+80N, -60°, 125m)

RG-35 intersected a mineralized horizon which returned 0.39% Cu, 1.14% Pb, 5.14% Zn, 30.9 g/T Ag and 0.2 g/T Au over 15cm. PEM responses from this hole suggest a conductive sheet most strongly mineralized to the west of the intersection. No Max Min data is available for this area, but VLF data (Fig. 7) shows the horizon quite well as a fairly weak conductor. On line 94 a single line strong VLF response (fraser filter value = 78) occurs on this trend. Down slope from this response soil anomalies in Ag, Zn and Cu are present. P5 is designed to test this anomaly.

This 765m program is the bare minimum required to test the top priority targets which have presented themselves and to achieve our aim of eliminating the most obvious targets from the Rea Gold property.

Estimated all in cost is \$61,200. Drilling is planned for mid-June.

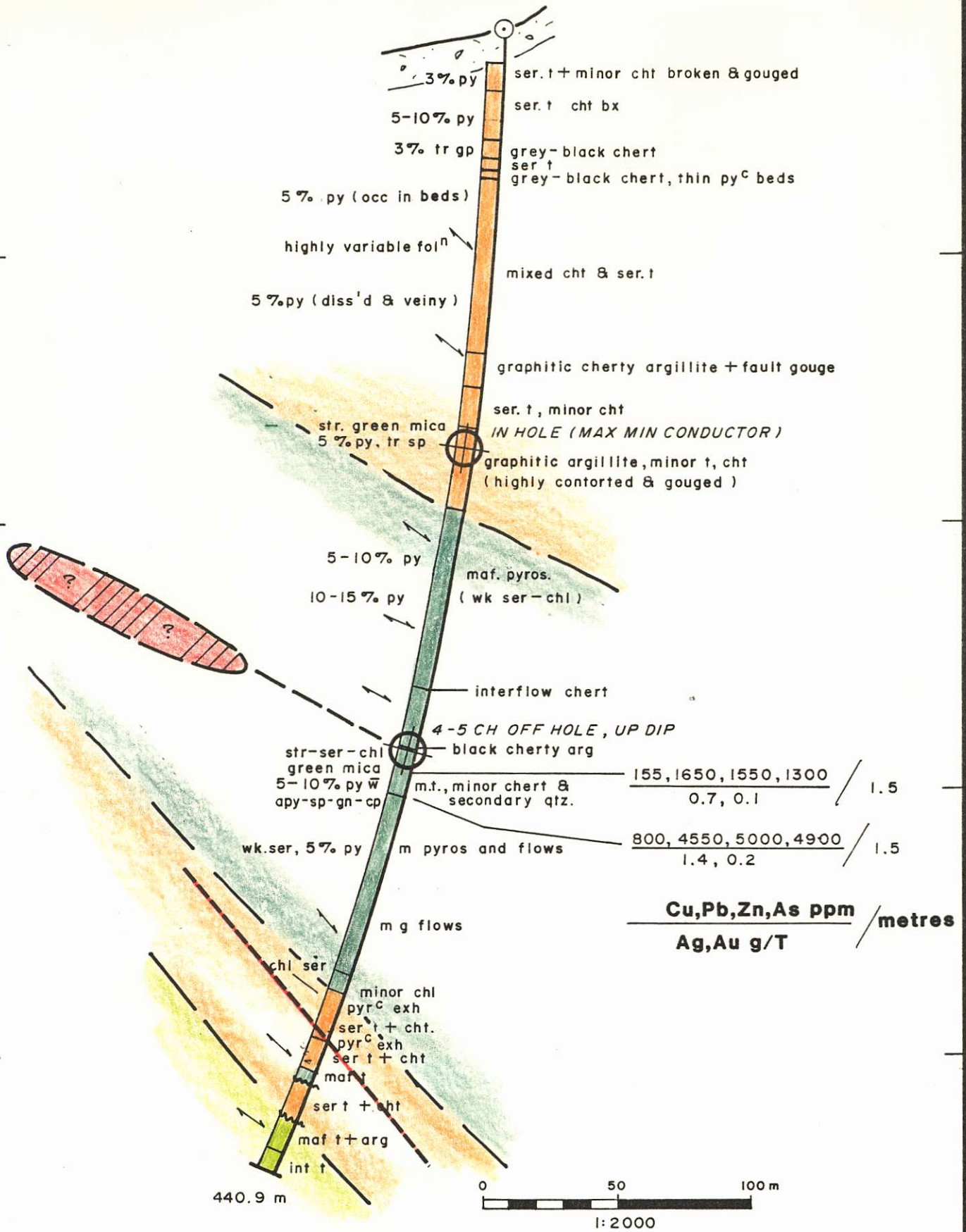


Ian D. Pirie

IDP/ik

RG33

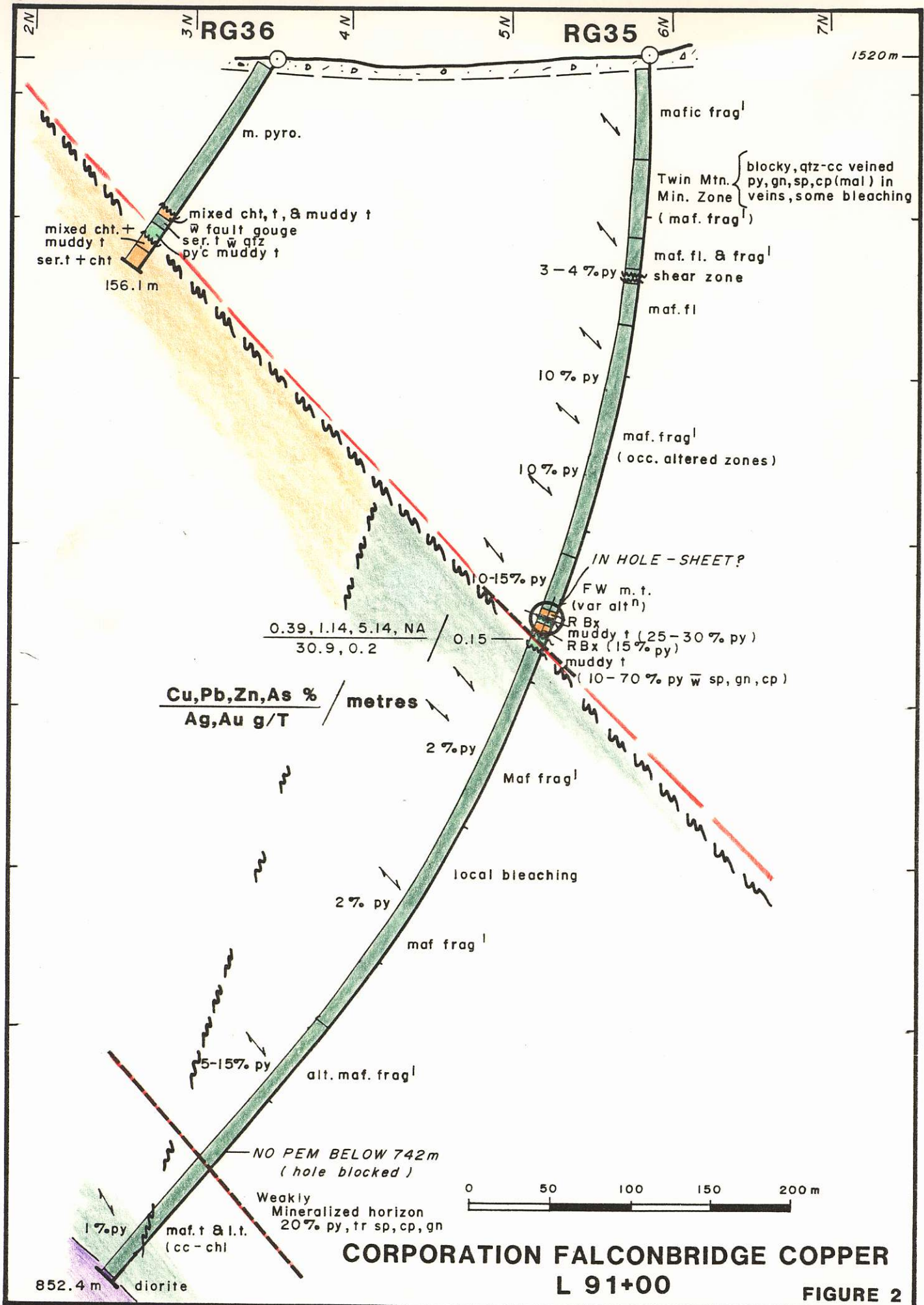
1500 m



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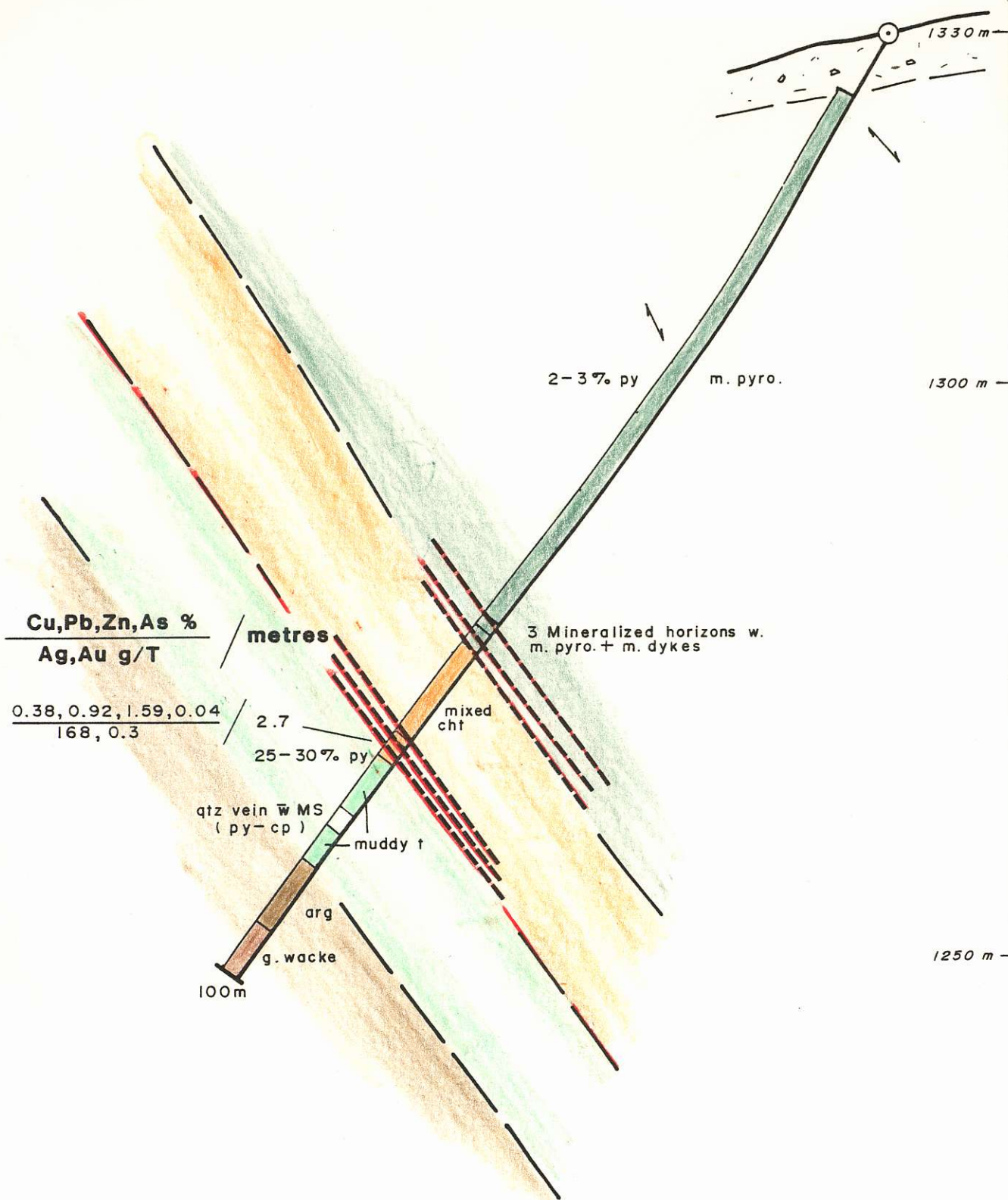
L 99+50

FIGURE 1



Cu, Pb, Zn, As %	metres
Ag, Au g/T	

RG37



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L 106+75

FIGURE 3





33

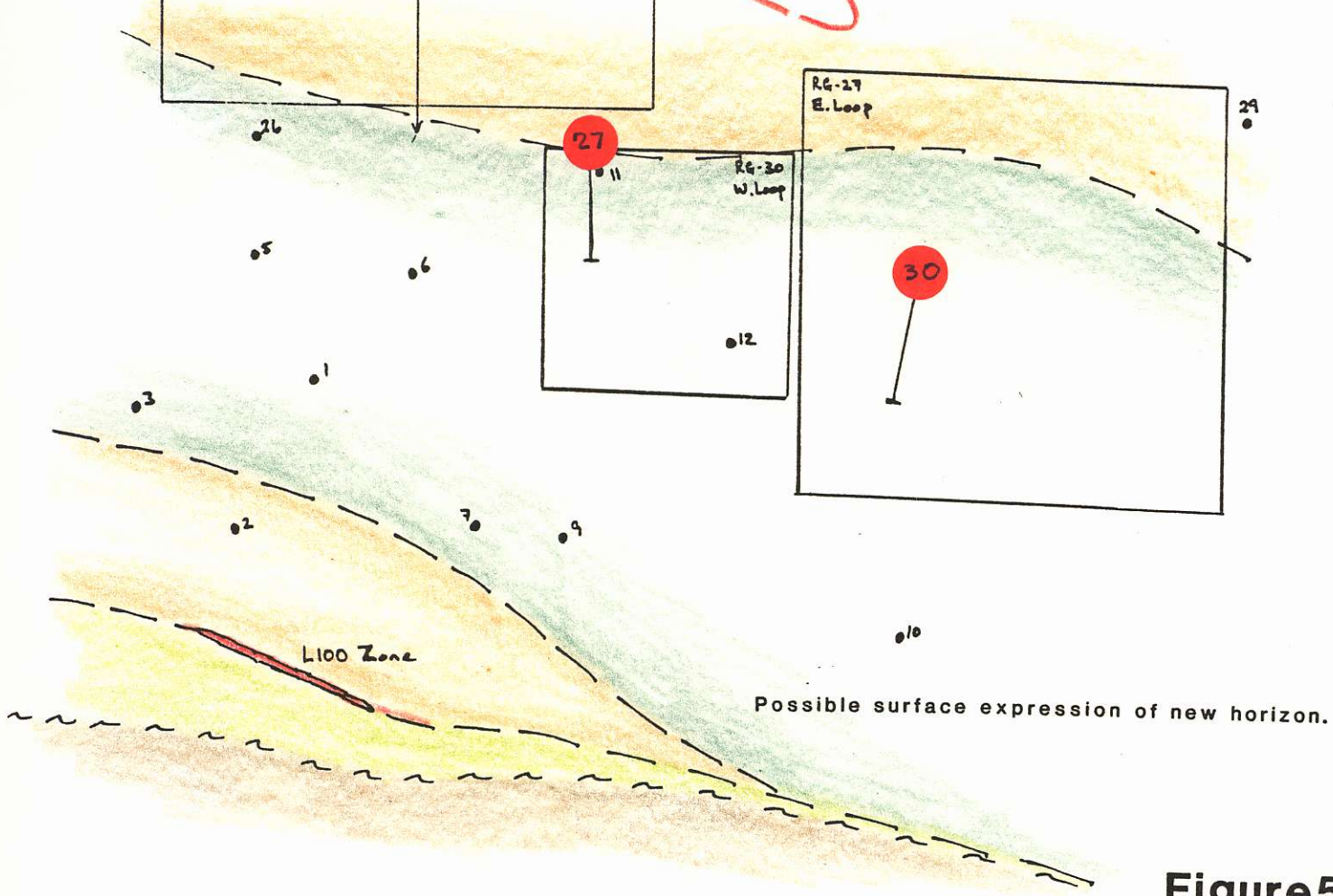
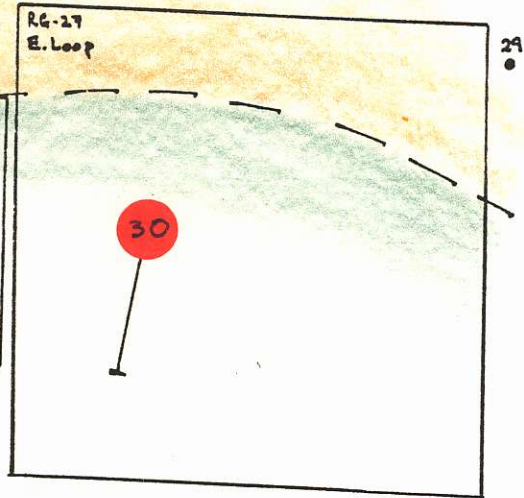
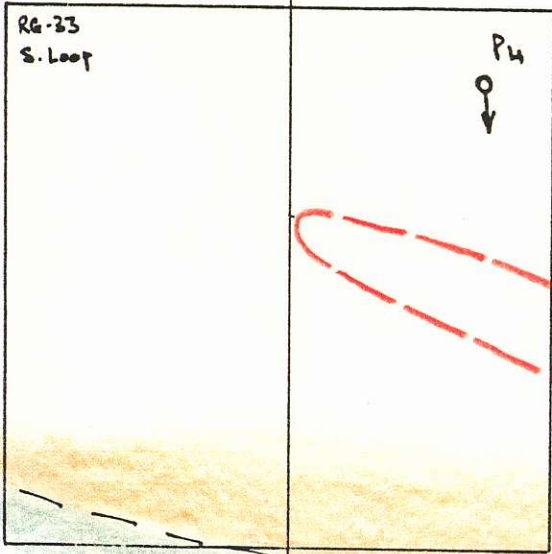
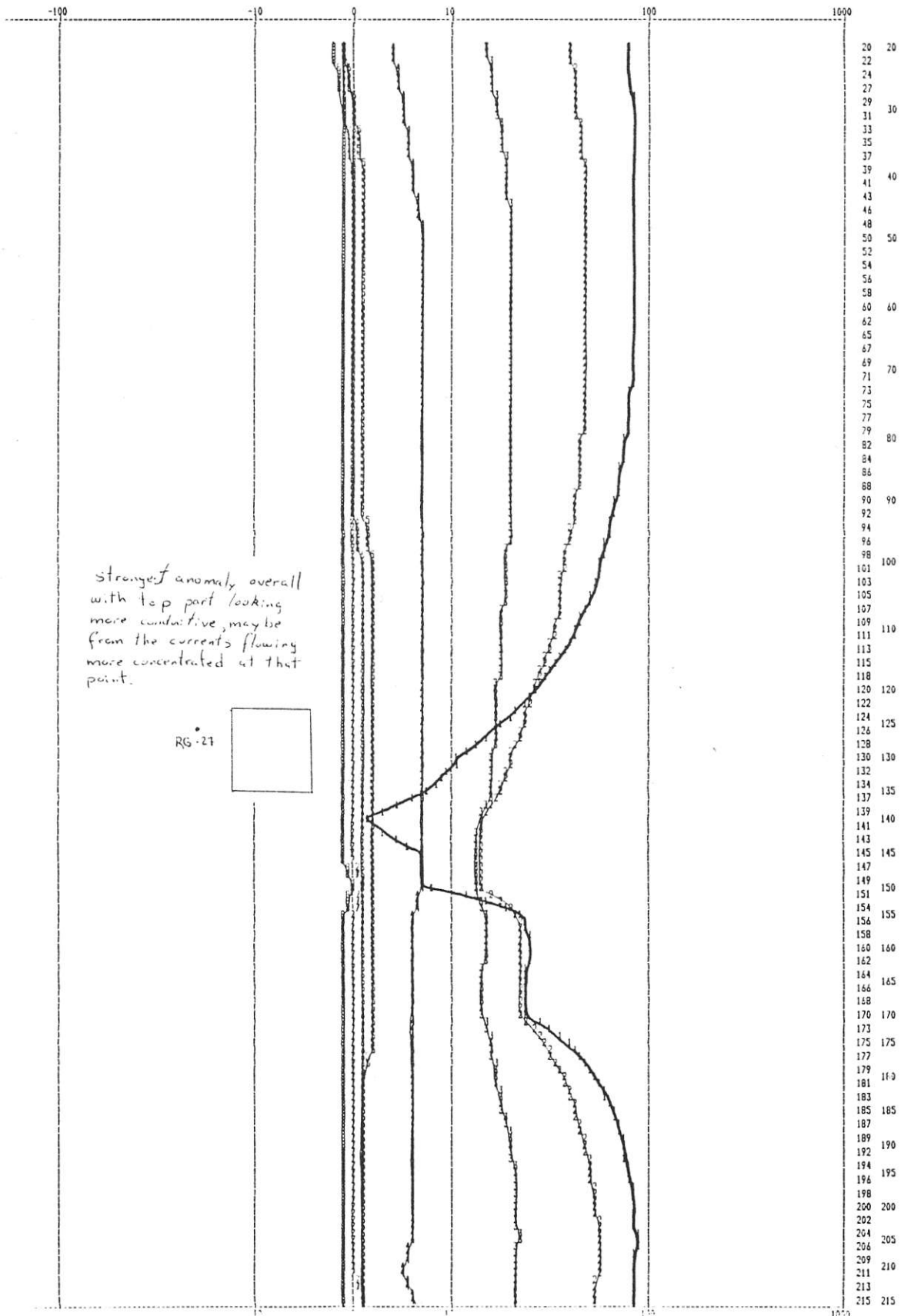


Figure 5

RG 33 (30/27) Off-hole response follow up.

Fig 6.  
(RG-27)



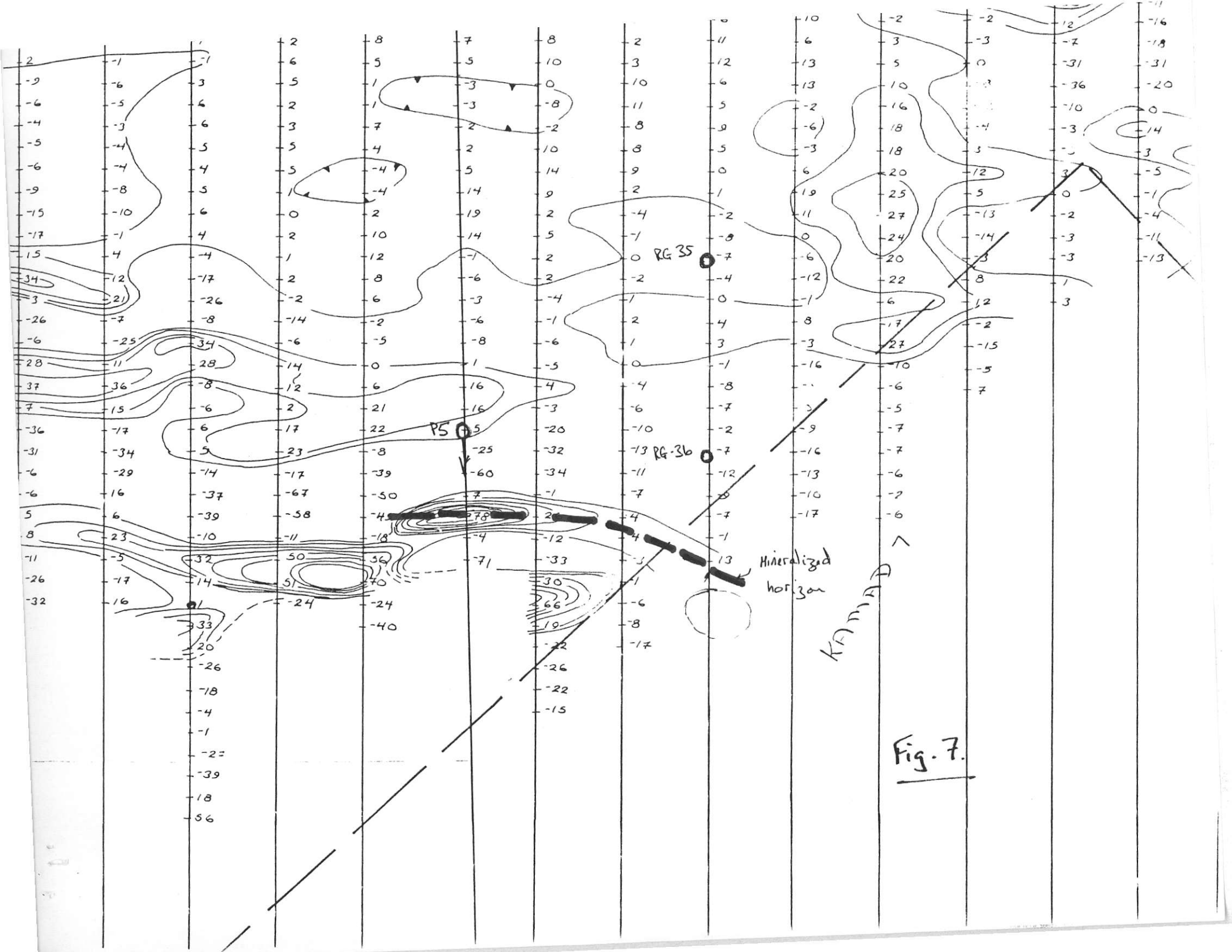


Fig. 7.