

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

019336

JUL 24 1974

of Y-9-4A

W.J.
D.M.H.
<del>C.M.H.</del>
M.D.R.
I.D.B.
R.D.S.
G.R.
T.W.B.
<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">E.C.J.</div>

To Mr. G. M. Hogg From W. M. Sirola

Subject AEX Vangorda Drilling Superimposed on Residual Gravity Contours Date July 23, 1974.

As part of our review of the Vangorda situation in 1965-66, we pieced together all of Duncan Crone's Bouger gravity maps and compiled a residual map from this information. We sent this map to Paul Kavanagh at that time, but because of its sheer bulk we did not retain a copy hereof. I requested that you return the map and it arrived this week from Ted Jacka.

I don't know what transpired after the map reached Toronto and there is nothing in our files either from Paul or Duncan Crone to indicate what they thought of this compilation. Paul did indicate by telephone, however, that it was not Kerr's intention to spend any more exploration money on either the Vangorda or Swim deposits at that time. This attitude may have stemmed in part from the somewhat imperfect metallurgy of both the Swim and Vangorda ores.

Basically, our residual map indicated two anomalies; one anomaly extended north westward from Line 20 west at the B.L. a distance of 5,000 feet, the second anomaly extended north westward from the Champ zone a distance of 3,600 feet, and obviously indicated a deeper causative mass because of the wider spacing of the contours.

Since the first anomaly had been tested by five diamond drill holes (to a maximum depth of 502 feet), the likelihood of deep mineralization was poor. In the case of the Champ anomaly, however, the zone had never been tested and mineralization had already been indicated by previous drilling by Prospectors' Airways.

# KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

To Mr. G. M. Hogg From W. M. Sirola

Subject AEX Vangorda cont'd.... Date July 23, 1974

page 2

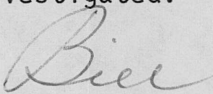
It now appears that the bulk of the mineralization in the AEX Drill Programme this year occurs beneath the Champ residual anomaly. This is shown on the accompanying tracing of the residual map.

The purpose in airing this information at this time is to try to avoid similar oversight (if that is what it was), in future work. It is also useful to know that the thicknesses we have been encountering in the current drill holes (40 feet of massive sulphides accompanied by equivalent or greater thicknesses of 15 to 50% sulphides) did show up as measureable residual anomalies in that environment despite the fact that the ore zones themselves are usually more than 400 feet deep. This is verified by the equation  $\Delta g = 12.77 \times \rho \times t$  or  $\Delta g = 12.77 \times .08 \times .04 = 0.42$ .  $\Delta g$  max on our residual map was 0.4 milligals.

As a guide to our current drilling programme, I think it would be quite safe to drill anywhere within the 0.1 milligal contour and in some instances beyond this contour. The contour is not perfect and a refinement of this work might indicate that such drill holes as A-9 would fall within the anomalous zone, but this exercise would be rather academic at this time.

## Conclusions

Gravity anomalies extending outward from known mineralized zones should be investigated.

  
W. M. Sirola.

