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KERR ADDISON MINES LIMITED
(FOR INTER-OFFICE USE ONLY)

To G.M. Hogg

From W.M. Sirola

LYN. GROUP, MAGUNDY RIVER AREA, Y.T. 105K-3
Correlation between Gravity and E.M. Surveys

Date October 5, 1971.

I.H.S.	
✓ P.M.A.	✓
G.M.H.	✓
F.D.S.	
D.G.B.	
I.D.B.	
M.D.R.	
L.H.F.	
(E.C.J.)	

Subject

Because of our inability to intersect the source of the gravity anomalies which we drilled, we decided to do C.E.M. work on a number of lines to see if any light could be shed by the use of the new E.M. equipment. In so doing, we were fully aware that graphitic schists occur on the property and that the gravity anomalies could be caused by skarn, barite, sulphides or bedrock topography in any combination. Sulphides could either be conformable with the enclosing rocks or completely nonconformable.

Both the field work and the calculations were done by Ted LaRose and John Lund over the following lines: 110W, 134W, 138W, 142W, 154W, 166W and 174W. Of these lines, only line 166W did not have an E.M. conductor coincident with a gravity high.

D.D.H. L-71-1, drilled on line 138W at 57N, could have missed because the E.M. indicates one steeply south dipping conductor (or possibly two, had the line been run further north).

D.D.H. L-71-2, on line 154W at 46N, should have encountered the source of the gravity anomaly, unless there is a small highly mineralized fold very near the surface above the drill hole. This could well be the case because of the sharpness of the anomaly. Since, however, adjacent lines showed no gravity highs, this particular anomaly is probably not worth pursuing. The E.M. anomaly is easily explained by south dipping gravity bands occurring in the drill hole beginning at approximately 100' and having a thickness of perhaps 200'.
graphite

D.D.H. L-71-3, on line 166W at 28N, encountered nothing which would explain the second order gravity anomaly and we have to assume that the anomaly reflects bedrock topography or an error in elevations.

In my view, the whole anomalous belt from line 110W to line 142W remains unexplained and is particularly intriguing in view of the coincident E.M. Even the erratic looking Bouguer values on line 110W are borne out by the subsequent E.M. work. On this property the Bouguer results are much more meaningful than residual, perhaps because of the tendency of the anomalous masses to occur in bands rather than in massive bodies. The above may not have been economic, but I don't think we should passively make that assumption.

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E.M. Surveys - PAGE TWO

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Apart from the 110W-142W area, the combined results on line 174W are most interesting in view of the proximity of this line to the galena found in the adjacent creek and to a new showing turned up by the bulldozer at line 160W + 5850N.

*Should be same setup as drilled on 154W.
M.M.*

Recommendations:

Have Duncan Crone review the attached profiles, particularly with regard to the dip of the E.M. conductors. Then consider additional drilling on the 110W to 142W anomalies when the budget permits.

WMS/jm
Encl.

W.M. Sirola /jm

W.M. Sirola.

Dunc Crone added some notes on the attached Bouguer Gravity sheet. He notes that there is a possibility of a sulphide zone occurring in the L71-1 drill hole area which may have been missed by the vertical hole. However, the tonnage potential seems slim, and the absence of a strong geochemical response in this location is damaging. No further work is recommended for the present.

*I agree
P.M.K.
Oct 12/71*

*W.M. Sirola
Oct 12/71*