

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

To..... G. M. Hogg *bc-14* From..... W. M. Sirola *bc-14*
 DEWAR CREEK PROJECT - 1972
 Subject..... 82F & 82K - KIMBERLEY AREA, B.C. Date..... March 21, 1973

J.H.S. ✓
 M.K.V. ✓
 G.M. ✓
 P.D.
 B.C.
 I.D.
 M.D.
 H.F.
 ✓ B.N.
 (E.O.J.)

The 1972 exploration programme for the Dewar Creek area involved the checking of silt sample anomalies by a combined programme of mapping, magnetic and electromagnetic surveys and soil sampling. This work was done by four men during the period June 29th to August 31st.

The geophysical work outlined four coincident Mag. - E.M. anomalies but these anomalies were not coincident with geochemical highs. In an attempt to determine their cause, Fred Chow had some of the soil samples in the vicinity of two of the coincident geophysical anomalies, analyzed for tungsten. As a result of this preliminary testing which revealed high tungsten values, more samples were sent to the geochemical laboratory for testing, and it was found that we now have a 'T' shaped area on the Nine Lake mineral claims which measures 5000 feet in a northwesterly direction by 3000 feet in a northeasterly direction with tungsten values in the 'C' horizon soils varying from 200 ppm to a maximum of 800 ppm. These anomalies occur on the 61, 62, 64, 66, 71 and 72 mineral claims.

It is difficult at this stage to draw any sound conclusions about the meaning of these high tungsten values, but we do know that they result from very fine scheelite mineralization in calcareous quartzites. It is possible that this anomalous area is underlain by a portion of the White Creek Batholith but this remains to be seen. It is also possible that the sandy soils in which the tungsten was found are so close to the outcrop that the geochemical values approach the true grade of the tungsten in the underlying rocks. This is possible because at an elevation of 8000 feet there is no proper soil development and the only overburden is that derived by the attrition of the rocks themselves. However, the values are distinctly anomalous even for rock geochemistry and we have no choice except to determine the cause of the anomalies by doing some form of physical work.

In addition to the rather impressive tungsten anomalies there occurs on the Doc group (Map D4A-B-C) a lead geochemical anomaly in which the 1000 ppm contour has a length of 4200 feet and a width of 700 - 1000 feet. The 2000 ppm Pb contour occupies over 50% of the 1000 contour area. This anomaly has a NE-SW trend and covers almost the entire area of claims 2, 4 and 6.

Again in attempting to interpret the meaning of this lead anomaly we must appreciate the fact that the anomalous values in the sandy soils may indeed represent the true grade of the mineralization in the rocks. Galena was found in quartz veins paralleling the beds in the Upper Aldridge argillites and was also found in crosscutting veins. Again we will investigate this area by limited I.P. work and possibly some form of physical work. This mineralization occupies an area roughly 800 feet x 600 feet in extent. The

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Page 2

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attached report and maps do not contain what I would consider an adequate description of the tungsten geochemistry and in consequence a short additional supplement and map will follow within the next few days.

WMS/ah

Bill
W. M. Sirola

I should look forward to seeing the data on the tungsten distribution, and will be discussing follow-up work with Bill Sirola at a later date.

WMS. March 28/73.