

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

008696  
of Y-10  
1

To D.A. Lowrie From W.M. Sirola  
Subject BIG SALMON COAL LICENCES, BIG SALMON, Y.T. Date August 24, 1977


On August 17, Fred Chow and I examined the outcrop areas mapped by Gerry Noel. The purpose of the visit was really to determine whether or not any rocks other than the Tantalus formation were exposed in the area. We suspected that some of the rocks might belong to the underlying Laberge formation because only the Laberge contains tuffaceous horizons. I should qualify this statement by adding that, to the best of our knowledge, tuffaceous units are found only in the Laberge.

We did not see any Laberge conglomerates as such, but we did find exposures that were distinctly tuffaceous and we also found an outcrop of massive rhyolite or dacite tuff which, on the four mile Laberge sheet, occurs at the contact between the Tantalus and the Laberge. It would thus appear that both formations are represented on the coal licences instead of just Tantalus rocks as shown on the four mile sheet. The significance of having both units is that the coal at Carmacks occurs in the lower part of the Tantalus and in the upper part of the Laberge.

We did not see any evidence of folding anywhere and the rocks appear to dip uniformly and gently eastward. However, the rocks may well be isoclinally folded and it remains for us to assemble cross sections which will explain the distribution of both rock units.

Fred Chow is currently plotting the results of his EM traverses across Jump Out Creek in the north east corner of licence # 59. This work was done with the Crone JEM unit and also with the VLF unit. It would appear that the Crone unit produced much more meaningful results and it would also appear that the shaley coal horizon is distinctly anomalous and could be traced under overburden.

When we have completed the cross sections, we will be in a position to discuss the possibility of drilling in this area. Should we decide to drill, we will at least have a much better idea of where we are in the stratigraphic column.

  
W.M. Sirola