007632 **KERR ADDISON MINES LIMITED**

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To M. D. Rowswell *From* G. M. Hogg

Subject Tintina Silver Mines Ltd. *Date* August 8, 1974

The Tintina Silver property lies on a geological structure known as the Tintina Trench, a basin of middle Paleozoic sediments which extends from northern B.C. into the Yukon. The axis of the basin follows the Pelly River in the Yukon in the vicinity of Ross River and Faro. The Vangorda and Anvil deposits lie in this same basin structure.

Along the axis of the trench there appears to be substantial faulting of a thrust nature from the east. The Vangorda and Anvil deposits lie on the east side of the fault system (i.e. on the east side of the Pelly River), and the Tintina Silver property is located on the west side.

There is lead-zinc-silver mineralization present on both sides of the Pelly River fault system. However, the character of the deposits is quite different. This is probably related to tectonic characteristics and related intrusive activity. On the east side of the fault system, large replacement sulphide deposits such as Vangorda occur in what appear to be monoclinal folds in the overthrust. On the west side, mineralization appears restricted to fracture fillings or veins, and extensive replacement activity is essentially absent. The Tintina Silver situation is characteristic of the west side type.

Kerr has carried on exploration projects on the west of the Pelly fault system, the most recent being the Glenlyon project. The Lyn group claims remain in good standing at this time, covering an area of strong geochemical activity which drill testing indicated to emanate from zones of fractures carrying lead, zinc, and silver. Gravity anomalies in this vicinity were tested, and proved to be of lithologic or topographic origin. Evidence of significant replacement deposits was totally lacking.

The Tintina Silver prospects are of the vein and fracture zone type. Though grades are excellent, especially in silver, tonnage potential is very limited. It is likely that in the general sense, depth potential is good, but individual vein and/or fracture systems themselves could not be expected to show good continuity.

G. M. Hogg

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