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From: Faulkner:
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APPENDIX: Cirque Deposit

Here are some additional notes on the Cirque Deposit including some new information, taken from a talk by Wayne Roberts, at the Annual Meeting, Northern B.C. Branch C.I.M. on 29th May.

- Cyprus Anvil is for sale - estimated price \$200 million.
- 50% interest in the Cirque Deposit is for sale "as a last resort" for an estimated \$20 million down and \$20 million input.
- Published reserves = 40 million tonnes averaging 2.2% lead, 8% zinc and 47g/Tonne silver in a pod-shaped mass open to the south.
- Reserves include a massive sulphide portion containing 14 million Tonnes of over 14% combined metals and 100g/T silver which would be mined first.
- Mineralogy is simple: pyrite, sphalerite, galena and barite in a black shale host.
- Silver occurs in all three sulphides and would have to be leached.
- Processing would be simple with good base metal recoveries indicated.
- Tailings would be almost pure barite of high S.G.
- Production would be of the order of 2 million T/yr. of which about 1.5 to 1.6 million tonnes would be barite (Note: current world production of barite is about half this).

Marketing of barite is not included in preliminary economic study.

- Mining proposed from a fly-in camp by adits from the Paul River valley using trackless equipment and modified vertical crater retreat.
- Mill would be in the upper Paul River valley, with concentrates trucked to the lakehead and barged to Mackenzie.
- Estimated costs in 1982 dollars:
 - total capital cost to production: \$400 million
 - mining costs: approx. \$35/T
 - transportation costs: approx. \$70/T
- Cash flow generation between \$1-2 billion in 15 year life span of presently known deposit.
- Project now delayed at least one year: revised schedule as follows:
 - underground exploration and drilling: 1983-85
 - production decision 1985
 - plant completed 1987
 - production 1988