



## Amerok Geosciences Ltd.

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January 8, 1996

Ms. Danielle Heon  
Canada/Yukon Geoscience Office  
Box 2703 F-3  
Whitehorse Yukon Y1A 2C6

### Re: Evaluation of Geophysical Data - Richardson Mountains area

Dear Danielle,

Thank you for your fax of January 3 outlining your requirements for an evaluation of the government geophysical data in the Richardson Mountains area. After considering your requirements, we wish to propose an evaluation of the data described below:

**a. Study area and data set.** The study area is the quadrangle defined by vertices at 65° 50' N 135° 30' W and 67° 00' N 137° 20' W. The data set to be examined is the Geological Survey of Canada aeromagnetic and Bouguer gravity data.

**b. Evaluation specifications.** The geophysical data will be examined and modelled to evaluate the following:

1. The sparse geophysical data set prevents the resolution of geological targets with economic potential. What are these limits in terms of size, depth of burial, geometry and physical property contrast?
2. The potential exists for Mississippi Valley Type Pb-Zn mineral deposits in the area. The location of these features appears to be generally controlled by regional faults. Is there any evidence of these faults in the geophysical data set?
3. The potential exists for Sedimentary Exhalative Type deposits in the Road River and Cano Formations. Is there any geophysical evidence to suggest where such deposits might be located?
4. The Wernecke Breccias are being evaluated for their potential to host Olympic Dam type deposits. Wernecke Breccias are found in outcrop in a limited portion of the study area. Can the geophysical data be used to map the location of this rock unit in the study area?

**c. Products.** The results of the evaluation would be submitted in a formal report together with the following products:

1. An aeromagnetic map overlain on the mapped geology.
2. A Bouguer gravity map overlain on the mapped geology.

**d. Cost and terms.** Amerok Geosciences Ltd. would acquire the data, prepare the above described products and provide the evaluation described in this letter for \$2,000 (GST excluded). A report, in duplicate, would be submitted by March 31, 1996. The Geoscience Office would be invoiced upon completion of the work.

I look forward to hearing from you concerning our offer and remain,

Yours Sincerely,  
**AMEROK GEOSCIENCES LTD.**

A handwritten signature in cursive script, appearing to read 'M. A. Power'.

M. A. Power M.Sc. P. Geo.  
Geophysicist