



**ARCHER, CATHRO**  
**AND ASSOCIATES LTD.**  
**CONSULTING GEOLOGICAL ENGINEERS**

WHITEHORSE, Y.T. 667-4415

1475 TWO BENTALL CENTRE, VANCOUVER, B.C. 688-2568

POST OFFICE BOX 1708  
WHITEHORSE, Y.T.

September 1, 1971

Mr. W. Sirola,  
Kerr Addison Mines Ltd.,  
405 - 1112 West Pender,  
Vancouver 1, B.C.

Dear Bill:

Re: Yukon Mineral Inventory

On May 5 we circulated a Yukon Mineral Inventory proposal to a select group of resource companies including your company. We presently have commitments by twenty participants and expect at least ten more. It is now certain that we will be proceeding with the Inventory and that the total cost to original participants will be between \$1400 and \$1750 depending on the final number. As outlined in the May 5 proposal, companies wishing to subscribe after October 1, 1971, will be charged double the initial rate, of which half will be refunded back to the original participants.

Your company has not replied to our May 5 proposal and this letter is to remind you that the deadline for subscriptions is October 1. If we do not receive a reply by that time we shall assume that your company is not interested.

Yours truly,

ARCHER, CATHRO & ASSOCIATES LTD.



A.R. Archer

ARA:sh

**RECEIVED**  
SEP 7 1971

KERR ADDISON MINES LTD.

Per.....

# ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

Box 1708, WHITEHORSE, Y.T. 667-415  
~~415~~

BENTALL CENTRE, VANCOUVER, B.C. 688-2568

1475 TWO BENTALL CENTRE  
555 BURRARD ST.  
VANCOUVER 1, B.C.

May 5, 1971

Mr. W. Sirola,  
Kerr Addison Mines Ltd.,  
405 - 1112 West Pender,  
Vancouver 1, B.C.

Dear Bill:

I am enclosing a brief description of a mineral inventory of Yukon Territory that our firm will be preparing during the coming winter, under the direct supervision of Alan Archer, Bob Cathro and Mike Phillips, who have a combined total of 30 years experience in the Territory. The number of subscriptions received by October 1, 1971, will determine the exact cost to the participants, based on the following schedule:

10-14 participants (minimum)	\$2,500.00
15-19 "	\$2,000.00
20-24 "	\$1,750.00
25-29 "	\$1,600.00
30-34 "	\$1,500.00
35 or over	\$1,400.00

We expect to receive between 20 and 30 subscriptions. Subscribers after October 1, 1971, will pay twice this rate of which half will be returned to the original participants on a pro-rata basis. A deposit of \$500.00 will be required from each participant on November 1, 1971, with the balance payable on receipt of the completed inventory in April, 1972.

The quoted price includes a single copy of the text and one sepia copy of each map. Subscribers may obtain mylar copies of each map, rather than sepia, by paying the extra printing cost (about \$150). Each participant will be expected to sign a letter of intent accepting the specifications given in the attached summary, the schedule of payments, and agreeing not to publish or distribute the data to groups or individuals outside their corporate structure. Please do not hesitate to contact us if you have questions that have not been explained in the summary.

Yours truly,

*A. R. Archer*

A.R. Archer

RECEIVED  
MAY 6 1971

KERR ADDISON MINES LTD.

ARA:sh

## Yukon Mineral Inventory - 1972

Archer, Cathro & Associates Ltd. plans to start preparation of a comprehensive mineral inventory of Yukon Territory during the fall of 1971. Drawing on unclassified material in our own extensive files, first hand knowledge of undocumented exploration conducted during the past 15 years since our involvement with the Yukon began, and a thorough gleaning of out-of-print government publications, this inventory will include at least 500 separate occurrences or properties in addition to the 183 which were shown on the only previous inventory (Lode Mining Potential of Yukon Territory, G.S.C. Paper 67-36, Figure 1, L.H. Green, 1968). The total could well reach 1000 when the study is completed in April, 1972.

Each mineral occurrence will be summarized on a single page (see attached sample) which, with the extra space provided and a supply of blank pages, will form the basis of a standard, expandable office file. Included as single occurrences will be:

(a) some claim blocks which have received substantial work without, as yet, uncovering mineralization (i.e. geophysical work in Anvil-Vangorda District).

(b) well documented groups of neighbouring, identical occurrences controlled by a single company (i.e. over 40 on the main United Keno Hill property and over 30 on the main New Imperial property).

(c) selected old claim locations (1890-1960) for which there is no known explanation but where a mineral occurrence is strongly suspected.

Accompanying the text will be a folio of unfolded sepia prints produced from NTS 1:250,000 (4-mile) topographic maps. About 30 such base maps at this scale cover Yukon and the immediately adjoining mineral belt of Mackenzie District, N.W.T., between latitudes 60°N and 65°N. Except for the geology of the Snag and Aishihik mapsheets (in progress), G.S.C. geology and aeromagnetic maps are now available for this entire area at this scale. The northern Yukon, which contains very few mineral occurrences and for which aeromagnetic coverage is not available, will be plotted at a scale of approximately 16 miles to the inch for ease in correlation with G.S.C. Map 10-1963. The individual base maps will include the following data:

- (a) mining district boundaries.
- (b) winter road routes, mining tote trails, and bush airstrips.
- (c) minor placer streams.
- (d) the position of every occurrence in the text within the map area, symbolized as follows to show the accuracy of plotting:

circle - within 1/2 mile  
square - between 1/2 mile and 2 miles  
triangle - less than 2 miles

Participants can prepare maps at their own expense and convenience from the sepias on mylar or herculene type material for overlay on geology or aeromagnetic maps. Samples of the two types of material, showing the quality which can be expected, are attached. The cost of a mylar print of each 4-mile map will be about \$3.50.

For all 4-mile map areas which contain a significant number of showings (probably 25 map areas), three sepia maps will be provided rather than one, to permit further classification by metal group and by type of deposit. The metal groupings selected are:

- (i) Cu - Mo - W - Sn
- (ii) Pb - Zn - Ag - lode Au - Sb
- (iii) Fe - Ni - Coal - Asbestos

While the position of all occurrences will appear on each map, the occurrences of the particular metal group will be indicated on the appropriate map by a larger symbol which will classify it according to the method used in the paper "Metallogeny of the Canadian Cordillera", by Sutherland Brown, Ney, Cathro and Panteleyev, C.I.M. Bulletin, May 1971 - vein, porphyry, skarn, stratiform, massive sulfide, magmatic, copper in basic lava, and uncertain. On the remaining 4-mile maps with only a few occurrences and the 16-mile map of northern Yukon, the main metal type will be shown after the number followed by the appropriate classification symbol. The few known occurrences of minor metals in Yukon - mercury, manganese, chromium, cobalt, platinum group, vanadium, cadmium, uranium/thorium, gallium, etc - will not be identified on these three metal group maps, but will be listed separately in the metal cross-index.

The individual pages for each occurrence will be bound in a hard cover 3-ring binder in numerical order, together with:

- (a) an index map showing the location of all maps in the folio.
- (b) a brief introduction giving further information on how to obtain current ownership data and claim sheets, and the less common references.
- (c) a cross-index by names (companies, prospectors, properties, or claim groups referred to in the text).
- (d) a cross-index by metal.

It is hoped that this mineral inventory will appeal to all resource companies, whether newly arrived or long established, that the format chosen will match to some degree with the style of data recording used by each and that it will be easily used by groups wishing to computerize their property records. Some of the special uses which this inventory will serve include:

(a) a simple filing method which can be easily updated and which can be added to by those companies that are aware of additional Yukon occurrences that are not included in the inventory.

(b) a quick reference for locating historical data when screening property and/or exploration submittals.

(c) a starting point for data research in regional surveys, metal inventories, or for developing exploration concepts utilizing aeromagnetic and geological data.



