

# ARCHER, CATHRO

AND ASSOCIATES LTD.

CONSULTING GEOLOGICAL ENGINEERS

WHITEHORSE, Y.T. 667-4418

1475 TWO BENTALL CENTRE, VANCOUVER, B.C. 698-2568

POST OFFICE BOX 1708  
WHITEHORSE, Y.T.


REPORT ON  
TK 1-8 MINERAL CLAIMS  
115-I-7



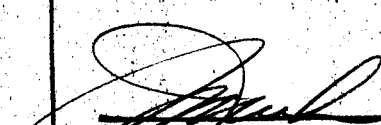
for

MITSUBISHI METAL MINING CO. LTD.

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$1025.00

  
Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 53 (4) Yukon Quartz Mining Act.

  
Commissioner of Yukon Territory  
Archer, Cathro & Assoc. Ltd.

R.J. Cathro, P.Eng.

## PROPERTY

The property comprises eight contiguous unpatented mineral claims which are registered in Whitehorse as follows:

<u>Claim Name</u>	<u>Grant No</u>	<u>Expiry Date</u>
TK 1-2	Y31559-Y35160	June 12, 1973
TK 3-8	Y35161-Y35162	June 12, 1972

## LOCATION AND ACCESS (Figure 1)

The TK claim group is located approximately 25 air miles northwest of Carmacks at the headwaters of the north fork of Williams Cr  ek.

Access to the property is by a 9-mile bush road suitable for four wheel drive vehicles, which leaves the Carmacks-Mt. Freegold Road at Mile Post 22.

## HISTORY

The TK claims were staked on a magnetic low. The Boy claim group which surrounds the TK claims were staked at a later date in a staking rush stimulated by the discovery by Casino of a low grade, high tonnage, copper moly deposit.

In August 1970 the Dawson Range Joint Venture (DRJV) optioned the Boy claim group and during the property examination found a copper showing some 1/2 mile southwest of the TK claims. DRJV traced the showing by trenching to within 800 ft of the TK claims. A trench 400 ft from the TK claim boundary cut about 12 ft of glacial material and did not intersect bedrock.

GEOCHEMICAL SURVEY  
(Figure 2)

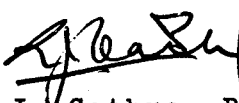
A geochem survey with sampling at 250 ft intervals on lines 500 ft apart was carried out over the claim group between June 1 - 7, 1971. Samples were taken at an average depth of two feet below surface in the mixed 'B + C' soil horizon with a mattock grubhoe. At some locations a sample of volcanic ash was taken as the mixed 'B + C' horizon could not be reached.

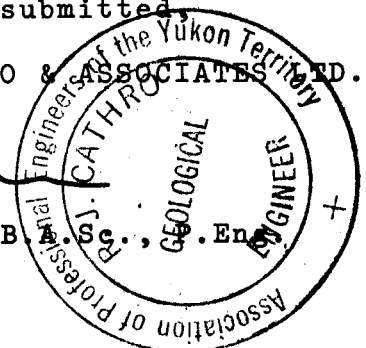
The samples were analyzed for copper by atomic absorption spectrometry of a nitric-perchloric extraction at Chemex Labs Ltd., North Vancouver, B.C.

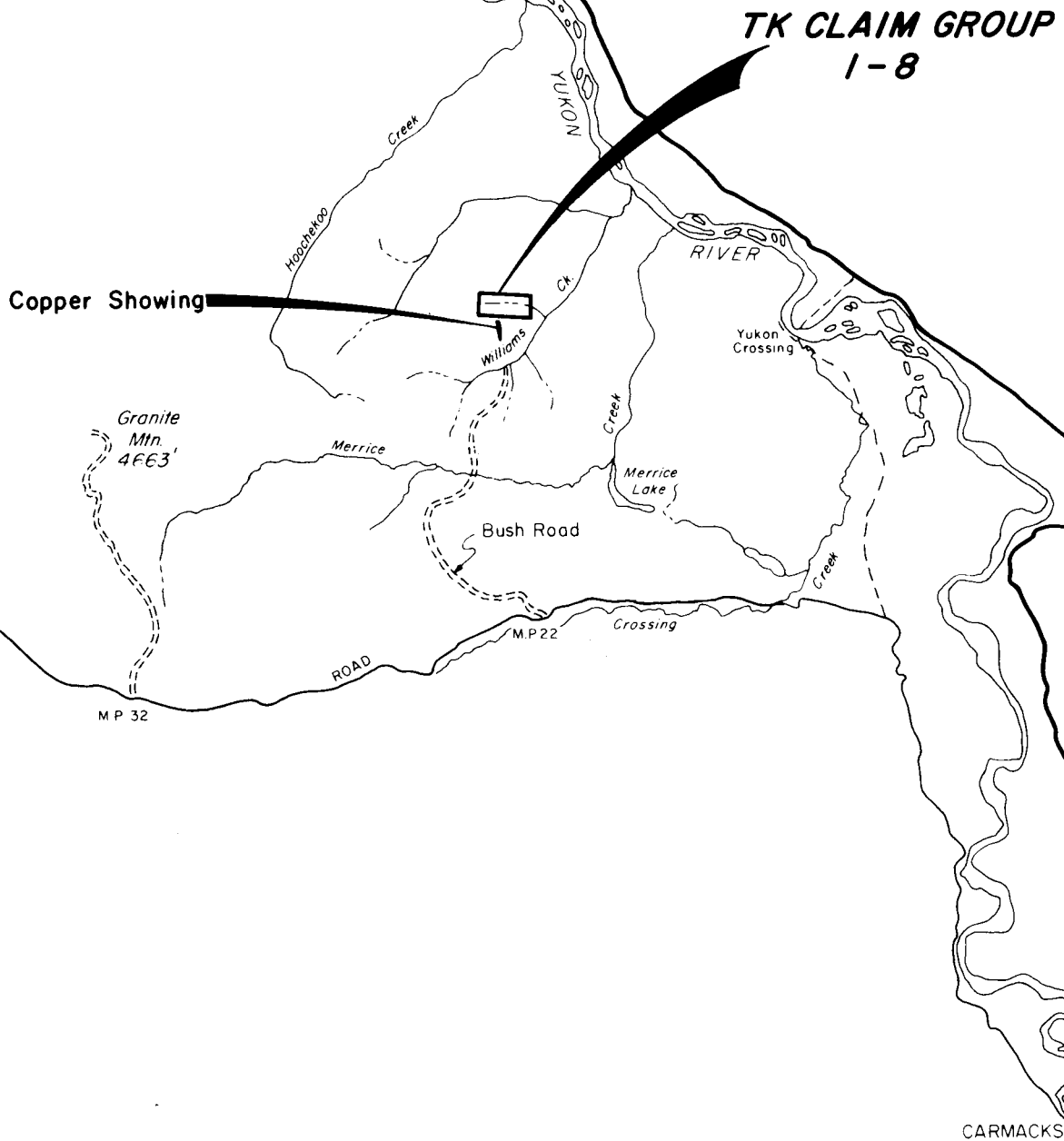
Geochemical surveys by the DRJV in the area has shown that copper background is 15-20 ppm with values exceeding 35 ppm weakly anomalous and values greater than 50 ppm strongly anomalous.

The strongly anomalous values on the south boundary of the TK #2 mineral claim, which lies along strike of the trenched copper zone on the Boy claims, indicate the zone could extend into the TK claims. The isolated weak to strongly anomalous copper values in the TK 4, 6 and 8 claims probably represent downhill dispersion of the copper zone.

Respectfully submitted,  
ARCHER, CATHRO & ASSOCIATES LTD.

  
R.J. Cathro, B.Sc., .Eng.





**TK CLAIM GROUP  
1-8**

**Copper Showing**

Granite  
Mtn.  
4663'

Hoochekoo  
Creek

YUKON  
RIVER

Williams  
Creek

Yukon  
Crossing

Merrice  
Creek

Merrice  
Lake

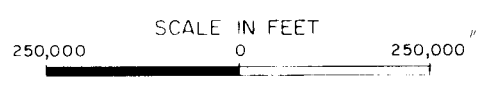
Bush Road

M.P. 22  
Crossing

M.P. 32

CARMACKS

FIG 1  
ARCHER CATHRO & ASSOCIATES LTD.  
**LOCATION PLAN**  
**TK CLAIM GROUP**  
WILLIAMS CREEK PROPERTY  
DAWSON RANGE JOINT VENTURE



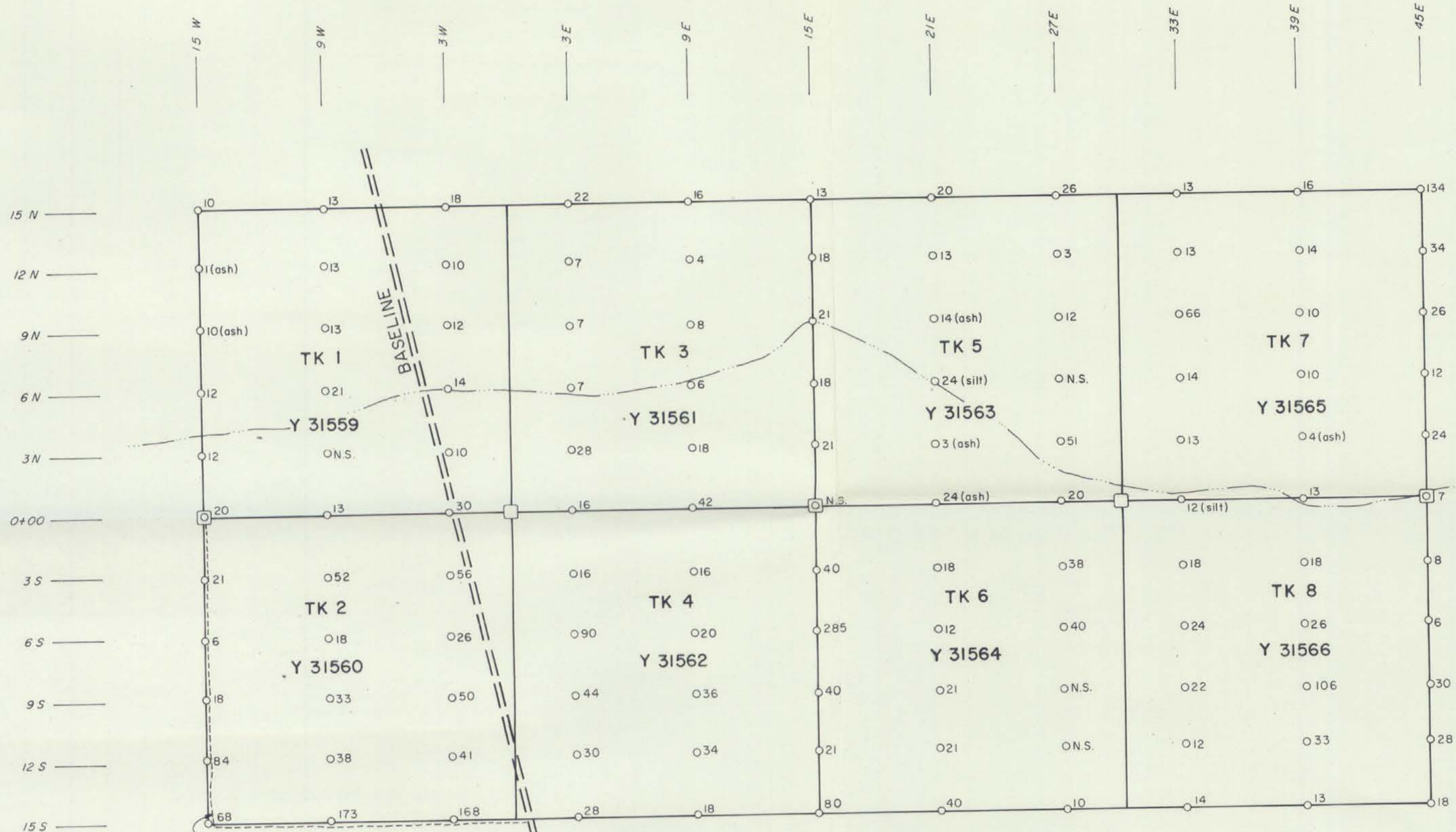
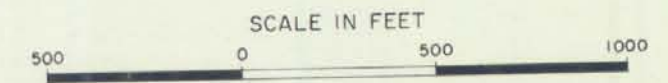


FIG. 2

ARCHER CATHRO & ASSOCIATES LTD.  
**COPPER GEOCHEMISTRY-TK CLAIM OPTION**  
 WILLIAMS CREEK PROPERTY  
 DAWSON RANGE JOINT VENTURE

- LEGEND**
- 75 Soil sample point, copper assay in ppm
  - Claim posts



Geochemical analyses by nitric-perchloric extraction, Chemex Labs.