

YUKON ANTIMONY CORPORATION LTD. (N.P.L.)

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EXPLORATION & DEVELOPMENT

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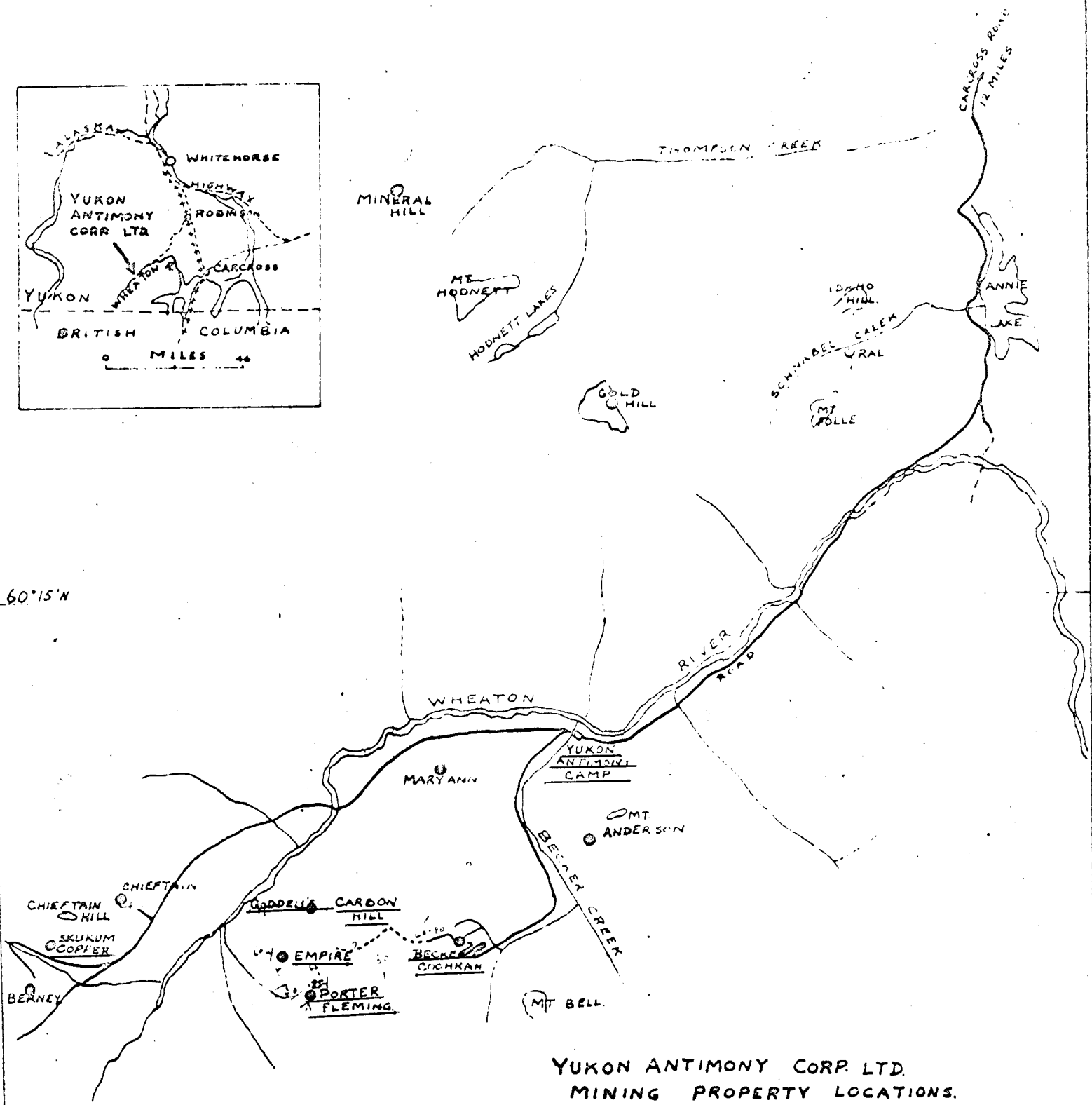
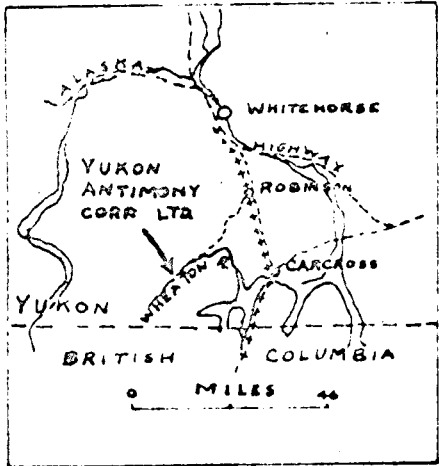
SKUKUM CREEK COPPER DEPOSIT

YUKON TERRITORY

092078

October, 1966.

M. P. Stadnyk.

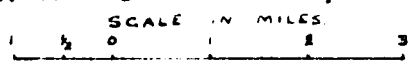


60°15'N

135°15'

135°00'

YUKON ANTIMONY CORP. LTD.
 MINING PROPERTY LOCATIONS.
 WHEATON RIVER, Y. T.



OCT. 66

M.P.S.

SKUKUM CREEK COPPER DEPOSIT

The Skukum Creek Copper Deposit was the most important discovery of the 1966 exploration program in the Wheaton District, Southern Yukon Territory.

LOCATION

This deposit is situated on the southern slopes of Chieftan Hill overlooking Skukum Creek. It is approximately ten miles south-west of the Yukon Antimony Corporation Limited camp as shown on the location map. One road has been constructed below the deposit and another road is planned over the top of Chieftan Hill.

GEOLOGY

Chalcopyrite, malachite and azurite are found disseminated throughout altered granites between elevations of 5,000 and 5,450 feet. The conglomerate rock bounds the deposit to the east, talus to the south, altered white rhyolite to the north, while a western boundary is indefinite. J.O. Wheeler, 1961, Geological Survey of Canada, Memoir 312, mentions the presence of disseminated native copper on the south-western slopes of Chieftan Hill, but this was not seen.

SAMPLING

Surface samples were taken at approximately 100 foot intervals as shown on the sample sketch map. Assays varied between 0.05% and 1.12% copper, with an average of 0.42% copper. The grade should improve with depth.

TONNAGE

Approximately three million tons at 0.5% or higher grade copper is calculated for the exposed portion of this deposit. These figures assume an improved grade with depth, a length of 1,200 feet, a width of 200 feet and a depth of 450 feet, and a mining dilution (due to dykes) of 50%. An ore tonnage factor of ten cubic feet per ton is also assumed. Field observations indicate that the deposit could continue under volcanic capping but geophysical surveys and drilling are needed to prove this.

CONCLUSIONS AND RECOMMENDATIONS

1. The Skukum Creek Copper Deposit is an extremely interesting copper prospect and warrants more work.
2. Access to the area is good but roads are needed on top of Chieftan Hill to facilitate further work.
3. Because of the ruggedness of the outcrop (steep hill slopes and cliffs) trenching was not possible. Therefore an induced polarization survey is recommended for the zone beneath the volcanic capping of Chieftan Hill.
4. If the I.P. survey reveals strong anomalies then percussion drilling is recommended since water is not available for diamond drilling.
5. Six additional mineral claims were staked around the deposit. If the I.P. survey is successful more claims should be staked.

6. A regrouping of mineral claims in the area is proposed as follows:-

- (i) KING No.1, 2, 3, 4, 5, 6, 15.
- (ii) JACKIE No.2, 4, 5, 6, 7; KING No.14, 16;
JOY FRACTION; JOY No.1, 2, 3, 4, 5.

Sufficient work has been performed to hold these claims for four years. Map of the proposed groupings is included with this report.

Report respectfully submitted,



M. P. Stadnyk.

YUKON ANTIMONY CORP. LTD.
 SKUKUM CREEK COPPER PROSPECT.
 SAMPLING SKETCH MAP.
 SCALE - APPROX. 1" : 100'
 OCT 1966 MPS.

Approximate position of
 Jackie #3, #1 Post
 Jackie #4, #2 Post.



NOTES: Random samples taken on exposed surfaces.
 Host rock granitic
 Total length, including dykes - approximately
 1200' - 1400' ft.
 Elevations using Pocket altimeter.
 Depth approximately 500 ft.

