# ASSESSMENT REPORTS

**MAP No.** 105-D-3  **TYPE OF WORK:** Geology

<table>
<thead>
<tr>
<th>REPORT FILED UNDER</th>
<th>Yukon Antimony Corp. Ltd. (NPL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE PERFORMED</td>
<td>July 1967</td>
</tr>
<tr>
<td>DATE FILED</td>
<td>July 31, 1967</td>
</tr>
<tr>
<td>LOCATION - LAT.</td>
<td>60° 11' N</td>
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<tr>
<td>LOCATION - LONG.</td>
<td>135° 14' W</td>
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<td>CLAIM Nos.</td>
<td>JOY Gp</td>
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<td></td>
<td>PHIL Gp</td>
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<tr>
<td>WORK DONE BY</td>
<td>A.P. Fawley</td>
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<tr>
<td>WORK DONE FOR</td>
<td>Yukon Antimony Corp. Ltd. (NPL)</td>
</tr>
<tr>
<td>REMARKS</td>
<td>Claims underlain by metamorphosed volcanic, sedimentary, and granitic rocks with some disseminated chalcopyrite. Samples assayed from 0.05 to 1.12% Cu with average of 0.42% Cu.</td>
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</tbody>
</table>
SKUKUM CREEK COPPER DEPOSIT

of

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

by

Allan P. Fawley

Property Examination July 13 & 14th, 1967
Report Written July 1967
SKUKUM CREEK COPPER DEPOSIT
YUKON ANTIMONY CORPORATION LTD. (N.P.L.)

INTRODUCTION

The Skukum Creek copper deposit was discovered in 1966 on part of the large claim holdings of Yukon Antimony Corporation in the Wheaton River area, Yukon Territory. Work that was completed before freeze up last year, consisted mainly of road building, geological mapping and surface sampling, indicated the possibility of a large copper deposit, and an induced polarization geophysical survey that is presently underway over the deposit has already given very encouraging results in that it has outlined a large, strong anomaly. Drilling is now necessary to test the anomaly for its copper content.

Information for this report is based on a report by M.P. Stadnyk (1966); preliminary induced polarization graphs by McPhar Geophysics Ltd.; and on a personal examination of the property on July 13 & 14, 1967. For greater details as to the history, climate, topography, geology, and mineral deposits see the report written by the writer of September 30, 1964.

LOCATION AND ACCESS

The Skukum Creek copper deposit is on Chieftan Hill, 11 miles by road southeast of the main camp of Yukon Antimony Corporation. The main camp is about 35 miles south of Whitehorse, Yukon Territory and

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can be reached by fairly good gravel roads. A road has been constructed from the main camp to the top of Chieta Hill that is passable by 4-wheel drive vehicles.

GEOLOGY AND ORE POSSIBILITIES

In the Skukum Creek area altered volcanic, sedimentary and granitic rocks with some disseminated chalcopyrite and patches of copper staining occur along a cliff face for a width of about 1,200 feet and through a difference of elevation of more than 500 feet. Most of the remaining area is covered by overburden. Samples, by M.P. Stadnyk, taken along the cliff at intervals of approximately 100 feet assayed from 0.05 to 1.12 percent copper with an average of 0.42 percent.

An induced polarization survey being carried out by McPhar Geophysics Ltd. has already indicated a large, strong anomaly with a maximum east-west width of 2,400 feet and a north-south length of more than 4,000 feet with the south end of the anomaly still open, and the anomaly, in general, becomes stronger with depth.

The tonnage potential of this anomaly is indicated by the fact that a block 4,000 feet long, by 1,000 feet wide, and 100 feet deep would contain about 33,000,000 tons.
RECOMMENDATIONS

A preliminary diamond-drilling program should be undertaken to determine if the anomaly outlines a possible economic copper deposit. Considering the large size of the anomaly about 3,000 feet of deep drilling (Bx or Bq size) and about 1,000 feet of shallow drilling (Ex size) will be required for the preliminary program. If results from this drilling are encouraging a large scale diamond drilling and/or percussion drilling program along with trenching should then be undertaken.

The deeper holes should be drilled with Bx or Bq wire-line equipment to obtain as complete core recovery as possible, and sludge should be carefully collected. The shorter holes should be drilled with a lightweight "x-ray" drill in places along the cliff where it would be difficult or impossible to place a large diamond drill.

Trenching and prospecting should be continued on the remaining large holdings of Yukon Antimony Corporation and the "x-ray" drill should be used for testing favourable discoveries.

ESTIMATED EXPLORATION EXPENSES

The preliminary program of 3,000 feet of deep drilling (Bx or Bq size) and 1,000 feet of shallow drilling (Ex size) will cost about $35,000.00 for the deep drilling and about $8,000.00 for the shallow drilling. This cost of $43,000.00 should cover the basic drilling costs plus mobilization, assaying, engineering, etc. A further $15,000.00 will be needed to

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maintain the main camp and crew of Yukon Antimony Corporation until the end of October 1967. This crew will be used to support the drilling program with transportation and by preparing roads and drill sites, also the crew will be used for further exploration work and trenching. (A D6 and a D8 bulldozer, road grader, Land Rovers, repair depot, etc. are maintained at the main camp of Yukon Antimony Corporation.)

Hence $58,000.00 should be available for the recommended preliminary diamond drilling and exploration program, and if encouraging drilling results are obtained then a much more comprehensive exploration and development program will have to be undertaken which may cost several hundred thousand dollars.

Respectfully submitted,

Allen P. Fawley
Vancouver, B. C.
July 31, 1967

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