

MAP NO.:	ASSESSMENT REPORT	DOCUMENT NO:	092545
105 D 3	PROSPECTUS	MINING DISTRICT:	WHITEHORSE
	CONFIDENTIAL	TYPE OF WORK:	GEOLOGICAL EVALUATION
	OPEN FILE		

REPORT FILED UNDER:	Yukon Antimony Corporation		
DATE PERFORMED:	July 13 - 14, 1967	DATE FILED:	August 17, 1967
LOCATION:	LAT.: 60 <sup>0</sup> 10'N	AREA:	Skukum Creek
	LONG.: 135 <sup>0</sup> 24'W	VALUE \$:	

CLAIM NAME & NO.:

WORK DONE BY:	A.P. Fawley
WORK DONE FOR:	Yukon Antimony Corporation

DATE TO GOOD STANDING:	REMARKS: #22 RACA
	Disseminated chalcopyrite was found exposed in a cliff face over a width of 365.8 m. Assays values averaged 0.42% Cu. An IP survey indicated a 734 x 1219 m anomaly open to the south and increasing in strength downwards

**ALLAN P. FAWLEY, PH.D., P.ENG.**  
**CONSULTING MINING AND GEOLOGICAL ENGINEER**

1947 WEST KING EDWARD AVENUE  
VANCOUVER 9, BRITISH COLUMBIA

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

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SKUKUM CREEK COPPER DEPOSIT  
YUKON ANTIMONY CORPORATION LTD. (N.P.L.)

INTRODUCTION

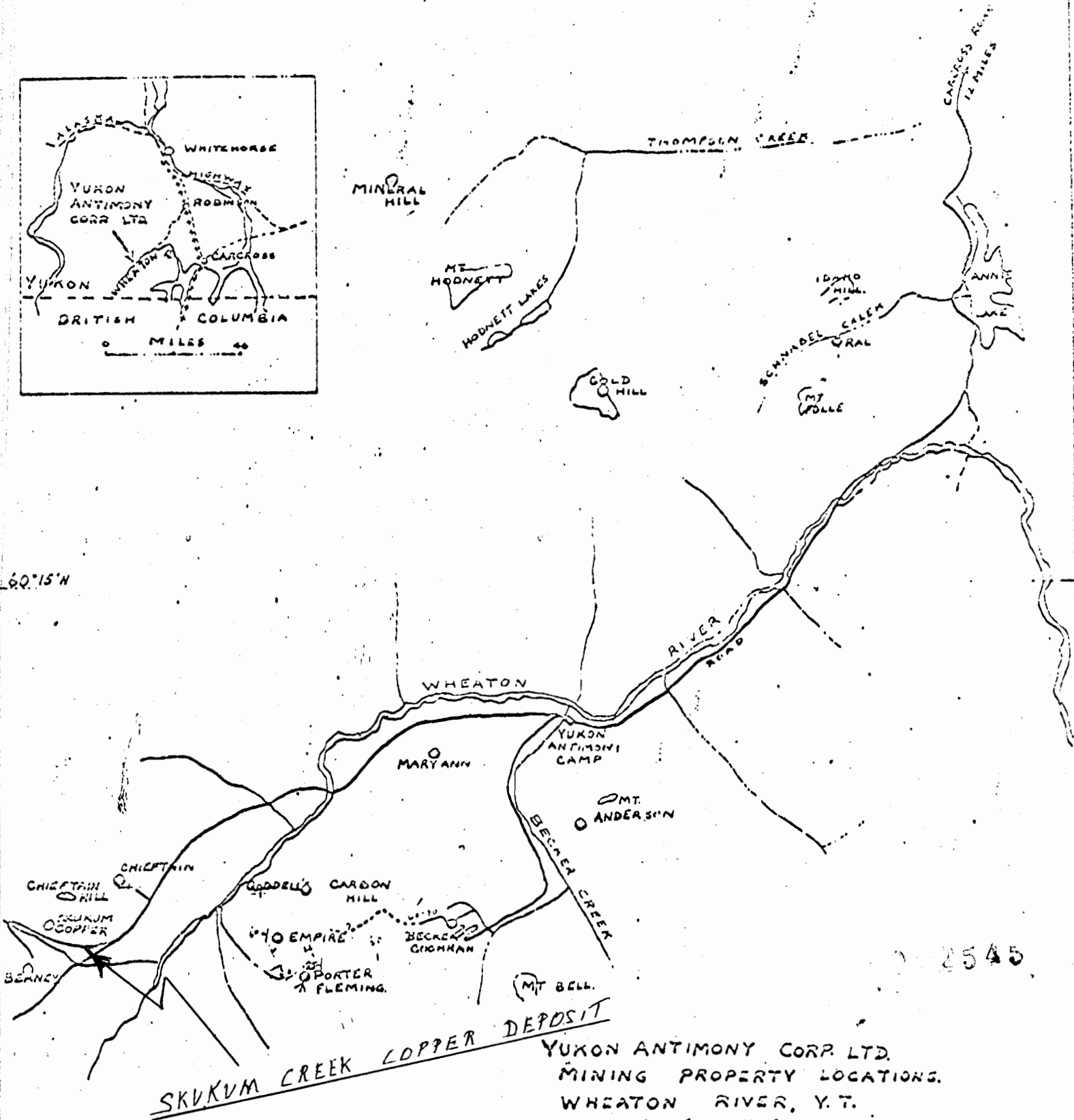
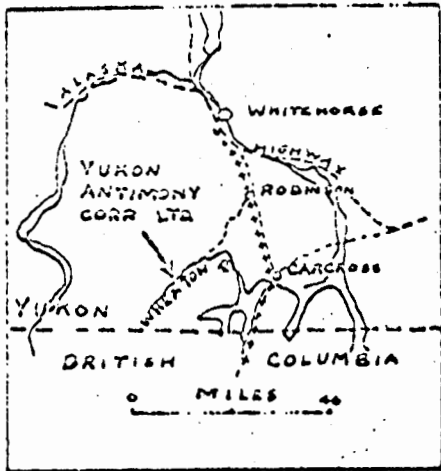
The Skukum Creek copper deposit was discovered in 1966 on part of the large claim holdings of Yukon Antimony Corporation in the Wheaton River area, Yukon Territory. Work that was completed before freeze up last year, consisted mainly of road building, geological mapping and surface sampling, indicated 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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OCT. 66  
To accompany report by A. P. Fawley, P. Eng.  
July 1967

135°15'

135°00'

can be reached by fairly good gravel roads. A road has been constructed from the main camp to the top of Chieftain 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 light-weight "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.

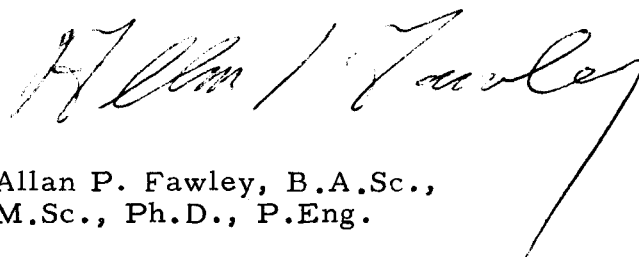
### ESTIMATED EXPLORATION EXPENSES

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

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,



Allan P. Fawley, B.A.Sc.,  
M.Sc., Ph.D., P.Eng.

Vancouver, B. C.

July 31, 1967

Consulting Mining and Geological  
Engineer

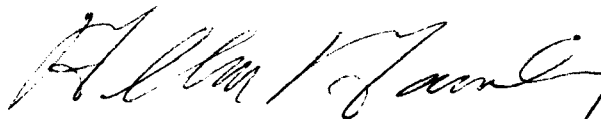
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CERTIFICATE

I, ALLAN PRIEST FAWLEY, of the City of Vancouver, in the Province of British Columbia, HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer and Geologist, and my address is 1947 West King Edward Avenue, Vancouver 9, B. C.
2. THAT I am a graduate of the University of British Columbia with the degree of B.A.Sc. (1937) in Mining Engineering, of Queen's University with the degree of M.Sc. (1946) in Geology, and of the University of California with the degree of Ph.D. (1948) in Geology.
3. THAT I am a registered Professional Engineer in the Province of British Columbia and in the Yukon Territory, and also a member of the Society of Economic Geologists, of the Canadian Institute of Mining and Metallurgy, and of the Geochemical Society.
4. THAT I have practised my profession as a geologist for more than twenty years.
5. THAT I have no direct interest or indirect interest, nor do I expect to have any interest in the Skukum Creek copper deposit or in the Yukon Antimony Corporation Ltd. (N.P.L.).
6. THAT I have no direct or indirect interest in any company acquiring control or intending to acquire control of the Skukum Creek copper deposit or in the Yukon Antimony Corporation Ltd. (N.P.L.).
7. THAT this report on the Skukum Creek copper deposit of Yukon Antimony Corporation Ltd. (N.P.L.) is based on my personal examination of the property on July 13 and 14, 1967.
8. THAT I have examined the staking of the Skukum Creek copper deposit of Yukon Antimony Corporation Ltd. and found it to be in accordance with the staking requirements of the Yukon Territory.

DATED this 31st day of July 1967

  
 Allan P. Fawley, Ph.D., P.Eng.  
 Consulting Mining and Geological  
 Engineer

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

Telephone 684-9632

*Yukon*

EXPLORATION & DEVELOPMENT

515 STOCK EXCHANGE BLDG., VANCOUVER 1, B.C.

Mine and Field Office: BOX 2057, WHITEHORSE, Y.T.

August 17, 1967.

Mr. Chris. Findlay,  
P.O. Box 2703,  
Whitehorse,  
Yukon Territory.

Dear Mr. Findlay,

Mr. Mackenzie our General Manager requested we send you a copy of the preliminary report the Company received from Dr. Allan P. Fawley.

In accordance with this request, we enclose herewith a photocopy of the report, together with a copy of the report issued to our shareholders last week.

Yours very truly,

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

*Jeanne E. Kendall*

(Mrs.) Jeanne E. Kendall  
Assistant Secretary.

JEK/jb

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

Telephone 684-9632

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EXPLORATION & DEVELOPMENT

515 STOCK EXCHANGE BLDG., VANCOUVER 1, B.C.

Mine and Field Office: BOX 2057, WHITEHORSE, Y.T.

August 10, 1967

## TO THE SHAREHOLDERS:

McPhar Geophysics Limited have completed the IP (induced polarization) survey of our Skukum Creek copper property. Dr. Allan P. Fawley, the Company's engineer and geologist, examined the property during the progress of the work and we quote from his preliminary report as follows:

"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.

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Dr. Fawley has spotted the location of the first 700 ft. diamond drill hole and a contract has been made with F & M Drilling Co. Ltd. for 3,000 feet of drilling under which the drilling will commence by August 10, 1967.

Our Skukum Creek copper property is located in what is known as the Whitehorse copper belt, the same area in which New Imperial Mines is located. While we have not received from McPhar Geophysics Limited their final evaluation and report, it would appear that the survey discloses an extensive mineralized area. We are hopeful that the preliminary drilling, as recommended by Dr. Fawley, will establish commercial mineralization and tonnage at depth.

Most recent successful mining ventures in British Columbia were made possible by the discovery and proving by drilling of millions of tons of low-grade ore in accessible locations. Our Skukum Creek copper property is very accessible and as indicated by Dr. Fawley's report, has the necessary geological features to contain a large body of ore. Our drilling program will, therefore, be of vital interest to our shareholders.

We are also happy to report that the Department of Indian Affairs and Northern Development has approved our application for assistance under the Minister's plan to provide 40% of the costs of the IP survey and preliminary drilling program estimated at \$63,000. Under this progressive program, the Federal Government shares with the Company 40% of the risk capital required for our Skukum Creek exploration. The Minister deserves a "thank you" for providing this progressive legislation.

The Company has arranged for an underwriting which will provide the Company with sufficient funds for its present requirements.

We are issuing this preliminary report in order that our shareholders may have a basis on which to enable them to evaluate the Company's potential, and we appreciate that our shareholders will be very interested in securing prompt and accurate information as the drilling proceeds. We will make progress reports available to the press, the Vancouver Stock Exchange and issue reports to the shareholders as the drilling progresses.



D. L. Cummings  
President

Box 969,  
Whitehorse, Y.T.,  
August 24, 1967.

Mr. Norman Mackenzie,  
Yukon Antimony Corporation Limited,  
P.O. Box 2057,  
Whitehorse, Y.T.

Dear Norman:

I wish to thank you very much for the report on the Skukum Creek property, which your office has forwarded. It looks as if the I.P. survey turned up some interesting results.

I plan to get down to your area again next month, and I hope I will see you then. In the meantime, best of luck with your field program.

Yours sincerely,

D.C. Findlay,  
Resident Geologist.

DCF:ep

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