

CANEX AERIAL EXPLORATION LTD.

DIVISION OF CANADIAN EXPLORATION LIMITED

700 BARRARD BUILDING

VANCOUVER 5, B. C. CANADA

GEOCHEMICAL REPORT

MARCH CLAIM GROUP

GRANITE MOUNTAIN, Y. T.

Lat.: 62° 19' Long.: 137° 8'

B. Ainsworth

L. Adie, P. Eng.

18 March 1966

File: 11-2-47

NTS 115-I-7

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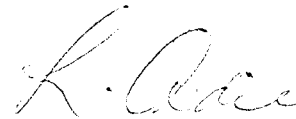
Geochemical Analyses

STATEMENT OF QUALIFICATIONS

The following report covers field work carried out on the Granite Mountain project by Mr. Ben Ainsworth who was working under my direction and under Mr. Richard Cribbs, Chief Geochemist of Canadian Exploration Limited.

Mr. Ainsworth holds a B.A. degree in Geology from Pembroke College, Oxford University, Oxford, England, graduating in 1962. Between November 1963 and February 1965 Mr. Ainsworth was employed by the Ghana Geological Survey, in which capacity he carried out detailed geological and geochemical surveys. Since joining the staff of Canex Aerial Exploration Ltd. June 22, 1965, he has been working chiefly on geochemical exploration under the direction of Richard E. Cribbs.

With Mr. Ainsworth's background of technical training and field experience we feel that the work contained in this report is of a standard acceptable for the purpose of recording as assessment work.



L. ADIE, P. Eng.

/ja

Geochemical Report, March Claim Group
Granite Mountain, Yukon Territory

GENERAL STATEMENT

The mineral claims group, March, is underlain by hornblende-biotite granite which is intruded by minor quartz-porphyrines and felsites. The granite is medium grained to coarse grained and shows copper and molybdenum mineralization.

PROPERTY

The mineral claims which are the subject of this report lie 25 miles N 54 W from Carmacks, Y. T.

The claims records are as follows:

March Group

<u>Claim Name</u>	<u>Record Numbers</u>
March 1- 8	91829-36
March 9-16	91859-66
March 17-24	91845-52
March 25-32	91837-44
March 33-36	91867-70
March 37-44	91871-78

TOPOGRAPHY

Relief is gentle to rolling; slopes have a vertical elevation of about 500 feet per mile. The area is unglaciated.

SURVEY CONTROL

A base line was established by use of Brunton and chain. Horizontal distance was calculated. Control of geochemical sampling lines was by hand-held compass.

GEOCHEMICAL PROSPECTING

Sampling

Geochemical lines were run on a north bearing. Lines were placed 1,000 feet apart. Some fill-in sampling was done on lines 250 feet apart. A sample interval of 100 feet was maintained.

An ash layer lies below the humus. The ash varies in thickness from a few inches to two feet. Soil samples were taken below the ash layer. Permafrost is present and talus is extensive; sampling is difficult. No soil profile is developed.

Analysis

Copper - Copper content was determined in 611 samples. Analysis was done on the minus 80 portion of the soil after fusion with potassium pyrosulfate. Copper was determined by the 2,2¹ biquinoline method.

Molybdenum - Molybdenum content was determined in 364 samples. Analysis was done on the minus 80 portion of the soil after fusion with potassium pyrosulfate. Molybdenum was determined by the thiocyanate-stannous chloride method.

Results

Copper - A marked anomalous area, 4,000 feet long by 2,000 feet wide was delineated by soil sampling (see Plate). The closure of this area is indicated on all sides except the south.

Within this main anomalous area, two strongly anomalous zones occurred:

1. A zone, averaging 900 ppm Cu, trends northwest through an area of earlier trenching on lines 0, 2 + 50E, 5 + 00E and 7 + 50E. This

zone is 1,600 feet long by 300 to 400 feet wide and indicates probable persistence of mineralization exposed in the trenches.

2. A narrow north-northeast trending zone occurs on lines 17 + 50W, 20 + 00W, and 22 + 50W over a distance of approximately 1,600 feet. No surface expression of mineralization has been noted in this area but it would be expected that an anomalous zone as marked as this would be a reflection of copper mineralization in bedrock.

Molybdenum - No strong molybdenum anomalies occurred but samples that gave the highest copper values in general gave high (16-40 ppm Mo) molybdenum values. This would indicate that molybdenum mineralization is associated with the copper mineralization.

CONCLUSION

The area sampled is one in which there is a rapid run-off of meteoric water. Considerable leaching of the oxidized residual soil would therefore be expected and this would result in metal values being lower than usual for soils derived from bedrock of a given ore grade.

Trenching and/or drilling is necessary to determine the grade of mineralization in bedrock.

STATEMENT OF EXPENSES

Geochemical sampling was supervised by B. Ainsworth and was conducted by those shown below. Kwaniski was employed as camp cook.

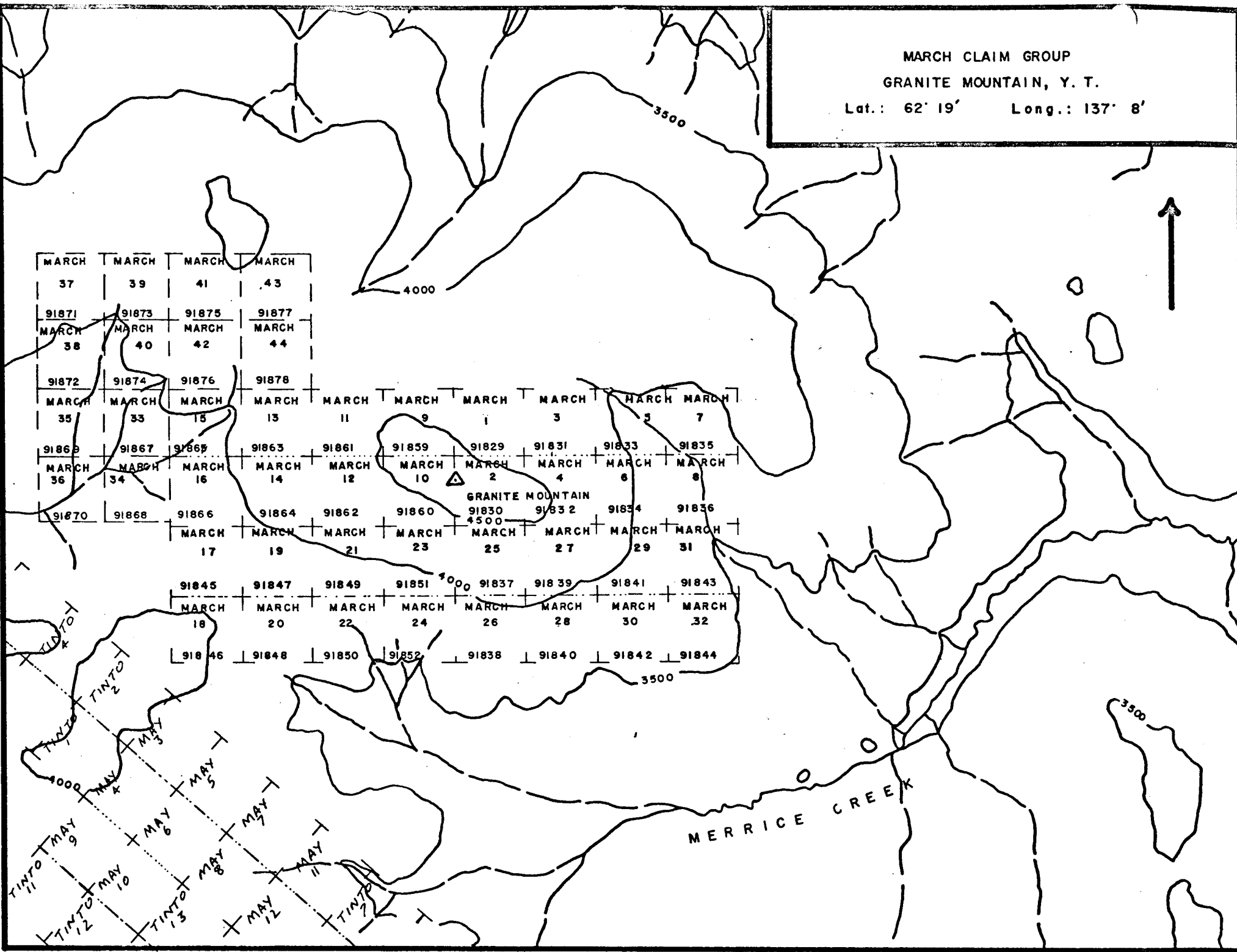
<u>Name</u>	<u>Dates Employed</u>	<u>Expenditures</u>
B. Ainsworth	July 15 - 21, 1965	\$ 166.00
B. Ainsworth	August 5 - September 5, 1965	427.00
B. Ainsworth	October 4, 5, 1965	25.00
B. Ainsworth	November 1, 2, 1965	25.00
J. Knox	July 21 - August 5, 1965	339.00
J. Knox	December 2, 1965	15.00
R. McKamey	June 1 - 15, 1965	166.66
R. McKamey	September 1 - 15, 1965	167.00
B. Charlie	August 26 - September 5, 1965	140.00
S. Charlie	August 26 - September 5, 1965	140.00
E. Charlie	September 1 - 3, 1965	40.00
B. Kwaniski	August 1 - 31, 1965	<u>702.50</u>
	TOTAL	\$ 2,351.16
Compensation and benefits @ 15%		\$ 353.00
Camp Operation		846.00
Geochemical analyses - 611 Cu determinations, Canex laboratory @ \$1.00/determination		<u>611.00</u>
		1,810.00
Head Office supervision and overhead @ 20% field salaries		<u>\$ 470.23</u>
	TOTAL	<u><u>\$ 4,631.39</u></u>

B. Ainsworth

B. AINSWORTH

BA:ja

MARCH CLAIM GROUP
 GRANITE MOUNTAIN, Y. T.
 Lat.: 62° 19' Long.: 137° 8'



MARCH 37	MARCH 39	MARCH 41	MARCH 43							
91871	91873	91875	91877							
MARCH 38	MARCH 40	MARCH 42	MARCH 44							
91872	91874	91876	91878							
MARCH 35	MARCH 33	MARCH 15	MARCH 13	MARCH 11	MARCH 9	MARCH 1	MARCH 3	MARCH 5	MARCH 7	
91869	91867	91865	91863	91861	91859	91829	91831	91833	91835	
MARCH 36	MARCH 34	MARCH 16	MARCH 14	MARCH 12	MARCH 10	MARCH 2	MARCH 4	MARCH 6	MARCH 8	
91870	91868	91866	91864	91862	91860	91830	91832	91834	91836	
	MARCH 17	MARCH 19	MARCH 21	MARCH 23	MARCH 25	MARCH 27	MARCH 29	MARCH 31		
	91845	91847	91849	91851	91837	91839	91841	91843		
	MARCH 18	MARCH 20	MARCH 22	MARCH 24	MARCH 26	MARCH 28	MARCH 30	MARCH 32		
	91846	91848	91850	91852	91838	91840	91842	91844		

TINTO 1
 TINTO 2
 TINTO 3
 TINTO 4
 TINTO 5
 TINTO 6
 TINTO 7
 TINTO 8
 TINTO 9
 TINTO 10
 TINTO 11
 TINTO 12
 TINTO 13
 TINTO 14
 TINTO 15

MERRICE CREEK

CANEX AERIAL EXPLORATION LTD.

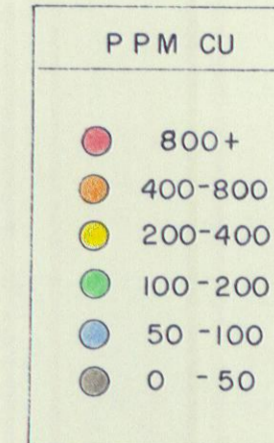
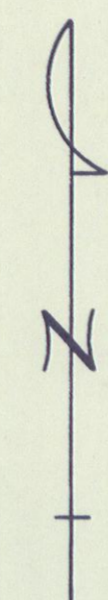
GEOCHEMICAL SOIL SURVEY

MARCH CLAIMS - GRANITE MOUNTAIN

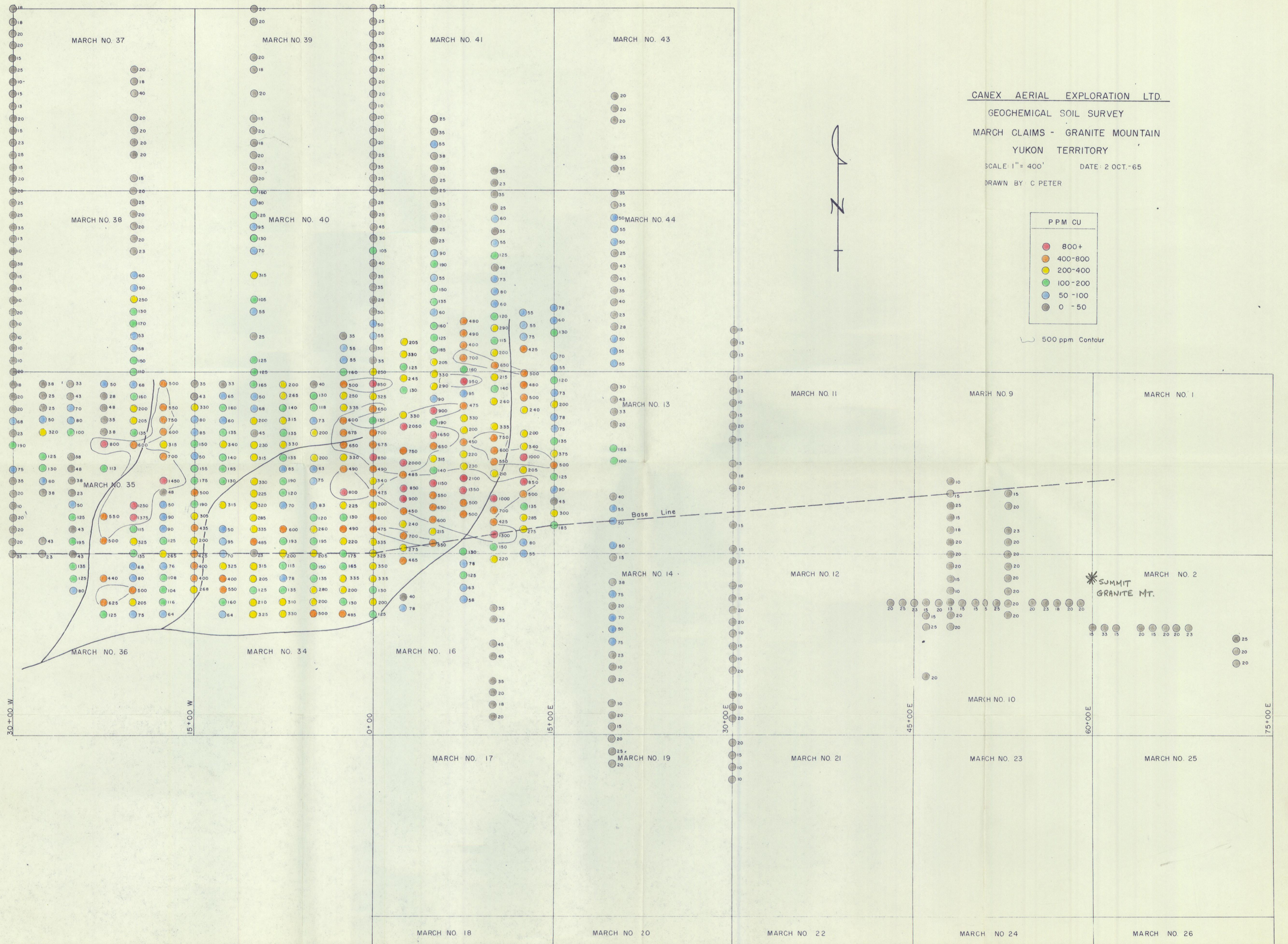
YUKON TERRITORY

SCALE: 1" = 400' DATE: 2 OCT. 65

DRAWN BY: C. PETER



500 ppm Contour



CANEX AERIAL EXPLORATION LTD.

Area GRANITE Mt.

Analyst _____

VENTURE 79

Date SEPTEMBER, 1965

Page No. 1

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
27150W 5S						
4S						
3S						
2S						
1S						
0		23				
1N		43				
2N						NO SAMPLE
3N						NO SAMPLE
4N						NO SAMPLE
5N		38				
6N		60				
7N		130				
8N		125				
9N						NO SAMPLE
10N		320				
11N		50				
12N		25				
13N		25				
14N		38				
25 W 5S						NO SAMPLE
4S						NO SAMPLE
3S		80				
2S		125				
1S		135				
0		43				
1N		195				
2N		43				
3N		125				
4N		50				
5N		23				
6N		38				
7N		48				
8N		38				
9N						NO SAMPLE
10N		100				
11N		80				
12N		70				
13N		43				
14N		33				
22150W 5S		125				
4S		625				
3S						NO SAMPLE
2S		440				
1S						NO SAMPLE

CANEX AERIAL EXPLORATION LTD.

Area GRANITE MT.

Analyst _____

VENTURE 79

Date SEPTEMBER, 1965

Page No. 2

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
22150W 0						No SAMPLE
1N		500				
2N						No SAMPLE
3N		550				
4N						No SAMPLE
5N						No SAMPLE
6N						No SAMPLE
7N		113				
8N						No SAMPLE
9N		800				
10N		38				
11N		35				
12N		48				
13N		28				
14N		50				
20W 5S		75				
4S		205				
3S		500				
2S		80				
1S		68				
17+50W 5S		64				
4S		116				
3S		104				
2S		108				
1S		76				
0		265				
1N		125				
2N		90				
3N		90				
4N		50				
5N		48				
6N		1450				
7N						No SAMPLE
8N		700				
9N		315				
10N		600				
11N		750				
12N		550				
13N						No SAMPLE
14N		500				
15W 5S						No SAMPLE
4S						No SAMPLE
3S		268				
2S		400				
1S		400				

CANEX AERIAL EXPLORATION LTD.

Area GRANITE Mts.

Analyst _____

VENTURE 79

Date SEPTEMBER, 1965

Page No. 3

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
15W 0		425				
1N		200				
2N		435				
3N		305				
4N		190				
5N		500				
6N		175				
7N		155				
8N		50				
9N		150				
10N		85				
11N		80				
12N		330				
13N		43				
14N		35				
12150W 5S		64				
4S		160				
3S		550				
2S		400				
1S		325				
0		70				
1N		95				
2N		50				
3N						NO SAMPLE
4N		315				
5N						NO SAMPLE
6N		130				
7N		185				
8N		140				
9N		340				
10N		135				
11N		60				
12N		160				
13N		65				
14N		33				
10W 5S		325				
4S		210				
3S		125				
2S		205				
1S		315				
7150W 5S		330				
4S		310				
3S		135				
2S		78				
1S		115				

CANEX AERIAL EXPLORATION LTD.

Area GRANITE MT.

Analyst _____

VENTURE 79Date SEPTEMBER, 1965Page No. 4

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
7150W 0		200				
1N		193				
2N		600				
3N						No SAMPLE
4N		70				
5N		120				
6N		190				
7N		85				
8N		135				
9N		330				
10N		135				
11N		315				
12N		140				
13N		265				
14N		200				
5W 5S		500				
4S		200				
3S		280				
2S		135				
1S		150				
0		205				
1N		195				
2N		260				
3N		120				
4N		83				
5N						No SAMPLE
6N		75				
7N		63				
8N		200				
9N						No SAMPLE
10N		200				
11N		73				
12N		118				
13N		130				
14N		40				
2150W 5S		485				
4S		130				
3S		200				
2S		335				
1S		165				
0		175				
1N		220				
2N		490				
3N		130				
4N		225				

CANEX AERIAL EXPLORATION LTD.

Area GRANITE MT

Analyst _____

VENTURE 79

Date SEPTEMBER, 1965

Page No. 5

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
2750W 5N		800				
6N						No SAMPLE
7N		490				
8N		330				
9N		650				
10N		675				
11N		600				
12N		335				
13N		250				
14N		500				
15N		160				
16N		55				
17N		55				
18N		35				
00 5S		125				
4S		200				
3S		130				
2S		335				
1S		350				
2750E 5S		78				
4S		40				
3S						No SAMPLE
2S						No SAMPLE
1S		465				
0		275				
1N		700				
2N		240				
3N		450				
4N		900				
5N		850				
6N		485				
7N		2000				
8N		750				
9N						No SAMPLE
10N		2050				
11N		330				
12N						No SAMPLE
13N		130				
14N		245				
15N		125				
16N		330				
17N		205				
18N						No SAMPLE
7750E 5S		58				
4S		63				

CANEX AERIAL EXPLORATION LTD.

Area GRANITE MT.

Analyst _____

VENTURE 79Date SEPTEMBER, 1965Page No. 6

Sample No.	ppm in soil or sediment					Remarks
	Mo	Cu	Zn	Pb		
7150E 3S		125				
2S		78				
1S		130				
0						NO SAMPLE
1N						NO SAMPLE
2N		500				
3N		500				
4N		1350				
5N		2100				
6N		230				
7N		220				
8N		450				
9N		200				
10N		330				
11N		475				
12N		95				
13N		950				
14N		160				
15N		700				
16N		400				
17N		490				
18N		480				
12150E 5S						NO SAMPLE
4S						NO SAMPLE
3S						NO SAMPLE
2S		55				
1S		80				
0		275				
1N		285				
2N		135				
3N		500				
4N		850				
5N		205				
6N		1000				
7N		340				
8N		200				
9N						NO SAMPLE
10N		240				
11N		500				
12N		480				
13N		500				
14N						NO SAMPLE
15N		425				
16N		75				
17N		55				

