

REPORT ON
GEOCHEMICAL SURVEY

"Y" CLAIM GROUP - COPPER MOUNTAIN AREA, - B. C.

for;

COIN CANYON MINES LTD.

by;

ATLED EXPLORATION MANAGEMENT LTD.
VANCOUVER, B.C.

CLAIMS

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
"Y" 1 - 4	27703-27706	July 2, 1971
"Y" 5 - 8	29178-29181	Nov. 3, 1971
"Y" 9 -40	27711-27742	July 2, 1971
"Y" 41 -52	33317-33328	May 17, 1972

LOCATION

Approximately 15 miles south of Princeton, B.C., east of the Similkameen River.

Lat. 49° 17N - Long. 120° 29'W. 92 H / 8W

DATE: JULY 1971

BY



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3188 MAP

3188

TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION	1
2. LOCATION	1
3. ACCESS	1
4. CLAIMS	1
5. GEOLOGY	1
6. HISTORY AND DEVELOPMENT	2
7. GRID SURVEY	2
8. GEOCHEMICAL SURVEY	2
9. SURVEY RESULTS	2
Copper Analyses	2
Anomaly #1	3
Anomaly #2	3
Anomaly #3	3
Anomaly #4	3
10) CONCLUSIONS	4

1 Claim Group
2 Geochem Soil Surveys (cu)

GEOCHEMICAL SURVEY REPORT

"Y" CLAIM GROUP - COIN CANYON MINES LTD.

INTRODUCTION

Between June 7 and June 14, 1971, line cutting, surveying, and a geochemical soil sampling survey was completed by Atled Exploration Management Ltd. on behalf of Coin Canyon Mines Ltd.

LOCATION

The property is located at the headwaters of Wolfe Creek about three miles southeast of Similkameen Mines Copper Mountain Property.

ACCESS

Access to the claim group is by Highway 3 to the Copper Mountain Road turn off, 1/4 mile east of Princeton. This paved road goes south for 10 miles to Lost Horse Gulch and from this point a fair gravel road suitable for four-wheel drive vehicles goes south 4 miles to the property.

CLAIMS

The property consists of 52 mineral claims, "Y" 1 to 52 inclusive, held under option agreement between Coin Canyon Mines Ltd. and the prospectors, G. Burr and E. Mullin, of Princeton, British Columbia.

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
"Y" 1 - 4	27703-27706 incl.	July 2, 1971
"Y" 5 - 8	29178-29181 incl.	Nov. 3, 1971
"Y" 9 - 40	27711-27742 incl.	July 2, 1971
"Y" 41 - 52	33317-33328 incl.	May 17, 1972

GEOLOGY

(After J.H. Montgomery 1961, 1962 and 1963) The property appears to be underlain by Upper Triassic Nicola volcanic rocks and possible intercalated sediments, primarily augite andesites and argillites respectively, in contact with the Copper Mountain intrusives, believed to be chiefly dioritic, with felsite dikes, faults and shear zones

continued....

intruding the younger rocks. Outcrop exposure on the property is probably less than 5%, although angular float and considerable cat trenching through generally shallow glacial overburden by previous owners have greatly enhanced the geological knowledge of the property with visible amounts of sulphide, hematite and magnetite mineralization being observed at various places on the claim group.

HISTORY AND DEVELOPMENT

The property has been investigated at various times by different individuals and companies. A reconnaissance geochemical soil survey by Amax Exploration Inc. revealed a number of copper anomalies, some of which were investigated by trenching. However, to the writer's knowledge, neither geophysics nor drilling have ever been carried out on this ground to date.

GRID SURVEY

A well blazed grid cut by Amax Exploration in 1970 was resurveyed. Stations were marked every 100 feet and additional lines 110S, 115S and 5N were cut and surveyed. Lines 0, 5S, 10S, 15S and 20S were extended to the east.

A total of 149,000 feet of line was surveyed.

GEOCHEMICAL SURVEY

Since the company had access to the results of the geochemical survey completed by Amax in 1970 soil samples were collected at 250' intervals midway between the Amax sample interval of 500 feet. A total of 250 samples were collected from immediately below the surface organic soil horizon. Average sample depth would be 4 inches.

The samples were analysed for copper by Vancouver Geochemical Laboratories Ltd., 1521 Pemberton Avenue, North Vancouver, B.C.

Method of Analysis:

- Instrumental - Atomic Absorption
- Extraction by HClO₄ - HNO₃
- Detection by Techtron AA5
- Samples sifted to -80 mesh
- Mesh weight used 0.50g.
- Final Volume 10ml.
- Supervising Chemist - L. Nicol
- Checked by L. J. Nicol

SURVEY RESULTS

Copper Analyses

The frequency distribution indicates that copper background is 50 ppm., threshold 60ppm., anomalous 75 ppm., and

continued.....

very anomalous +100 ppm.

The survey has outlined four general copper anomalous areas as follows:

Anomaly #1

Line 95S and 100S, station 16E to 40E. The anomaly ranges from 70 ppm. to a high of 315 ppm. Cu. The writer examined this anomaly and found the highest reading to be coincident with swampy areas. There is practically no outcrop float in this area.

Anomaly #2

A weak linear shaped Cu anomalous zone extends south approximately 3,000 feet from Line 70S - 2W to Line 95S - 13W. The anomaly ranges from 70 ppm. Cu to 190 ppm. Cu.

The anomaly overlaps on the west for 2,000 feet an Induced Polarization chargeability anomaly.

The northern 2,000 feet of the copper anomaly is partially coincident with a depression that may represent a fault zone. This area is completely covered by glacial overburden.

On line 85S - 10W there is outcrop exposed in old bulldozer trenches. This area is underlain by a bedded andesite volcanic series composed of massive fragmentals, crystal tuffs and tuffaceous argillites. A large portion of the volcanics in the trenched area have been silicified and the mafics chloritized. From 2% to 5% finely disseminated pyrrhotite and pyrite with trace amounts of chalcopyrite is found throughout this altered zone.

Anomaly #3

This anomaly covers a large area along the base line from line 15S to Line 55S and from 8W to 14E. The anomaly ranges from 70 ppm. Cu to a high of 275 ppm. Cu.

There is good outcrop along the baseline from line 35S to 60S. This area is underlain by an altered porphyry that is probably related to the Copper Mountain Intrusive Complex. The intrusive is only weakly mineralized with less than 1% pyrite.

Anomaly #4

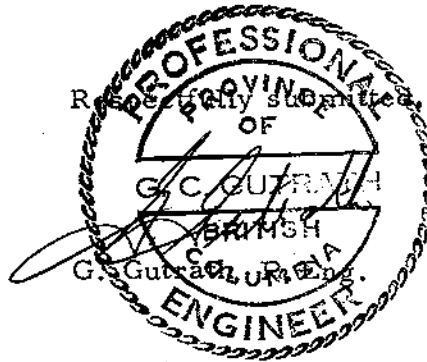
The anomaly starts at 20W on line 30S and there are three peaks between 20E and 60E. The largest anomalous zone is linear shaped, and extends from Line 25S - 42E south to Line 70S - 30E, and ranges from 70 ppm. Cu to 850 ppm Cu.

There is no outcrop in the vicinity of this anomaly. The 850 ppm. Cu anomalous soil sample comes from a dry, pine covered ridge. At 70S - 48E and 16E there are good outcrops in which trace amounts of chalcopyrite with 1 - 2% pyrite were found associated with chloritic and feldspathic alteration.

CONCLUSIONS

The geochemical soil sampling has outlined two anomalous areas of specific interest.

- a) Anomaly #2 is on the flanks of a significant I.P. chargeability anomaly and warrants more detailed investigation.
- b) Anomaly #4 is in an area where there is no outcrop and does not appear to be related to topography or ground water seepage. The area covered by this anomaly warrants geophysical investigation by induced polarization methods.



APPENDIX I

- PERSONNEL

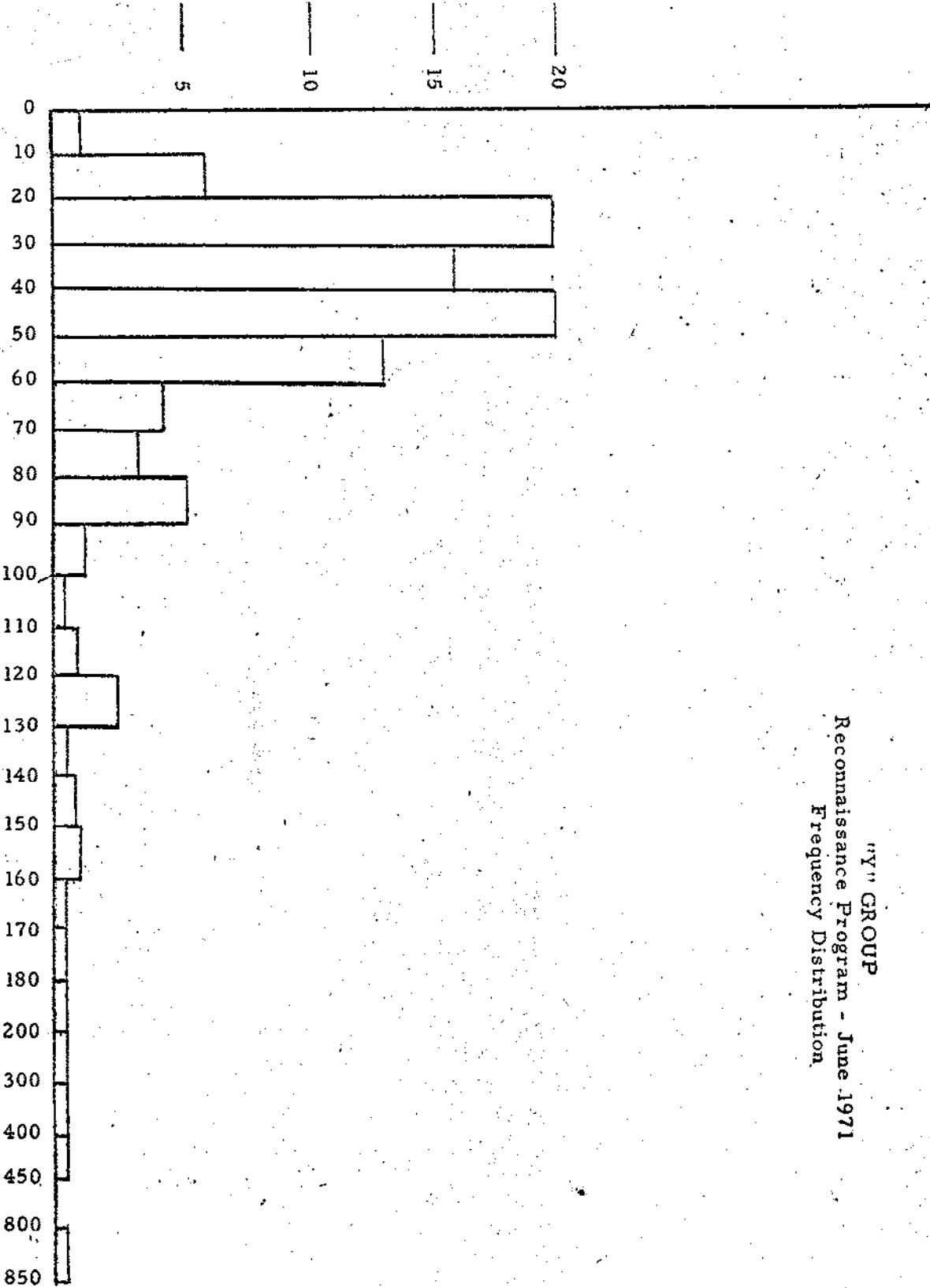
Supervisor	G.C. Gutrath, P.Eng.
Party Chief	J.R. Lerner
Line Cutters and Soil Samplers.....	K. Lerner W. Culbert

APPENDIX II

FREQUENCY DISTRIBUTION

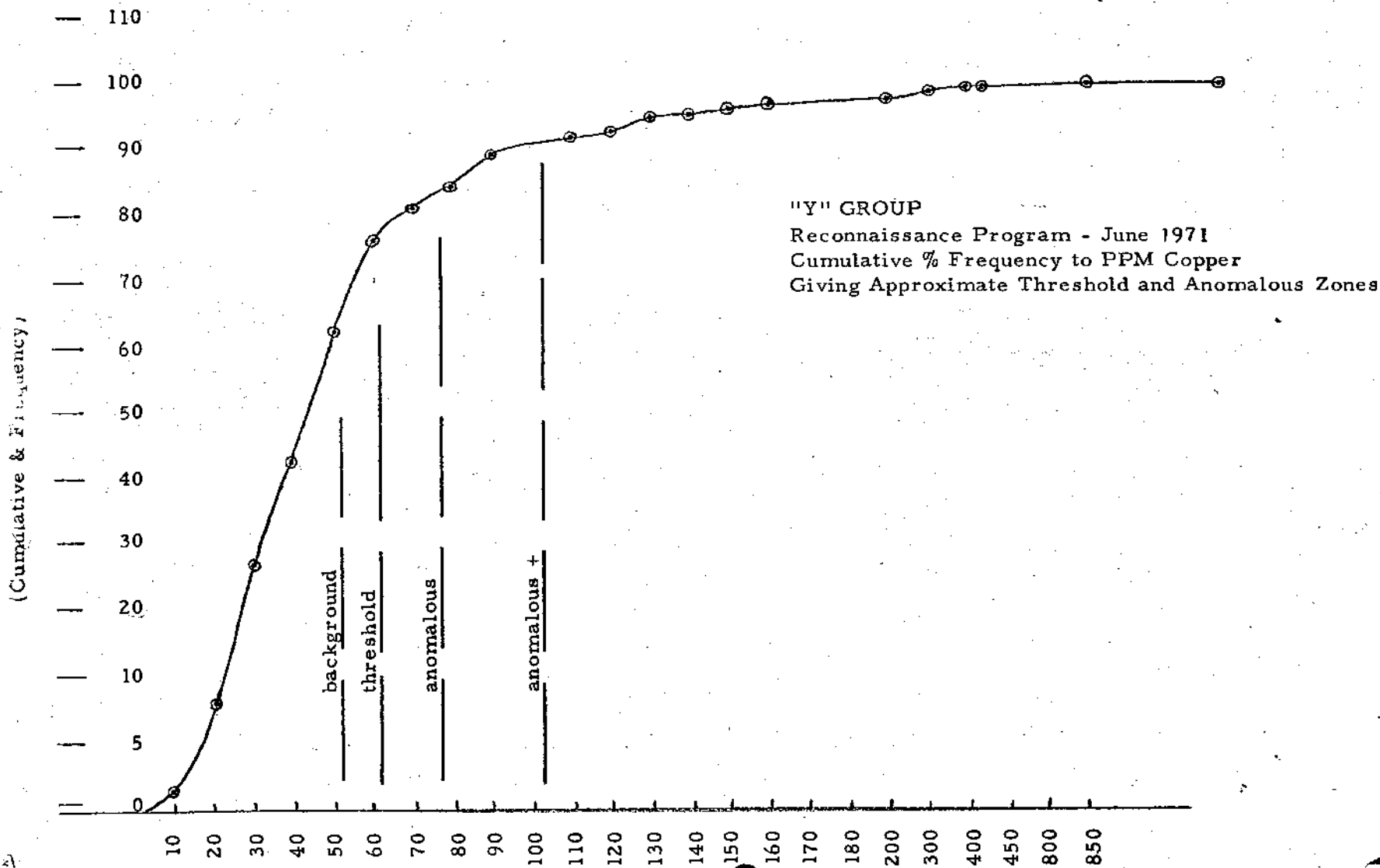
Cumulative % Frequency to PPM Copper

(% Frequency)



"Y" GROUP
Reconnaissance Program - June 1971
Frequency Distribution

PPM COPPER



APPENDIX III

GEOCHEMICAL ANALYTICAL REPORT

'Y' Group.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 71-27--002 DATE June 18, 1971

SAMPLES SUBMITTED BY Coin Canyon Mines COMPANY Coin Canyon Mines Ltd.

SHIPPED VIA Picked - up FROM

REPORT ON 250 Samples for Cu DATE SAMPLES ARRIVED June 15, 1971

* * *

COPIES OF THIS REPORT SENT TO:

TRANSMITTED BY:

(1) Vancouver Office Mail

(2)

(3)

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.50 g

FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental - Atomic Absorption

EXTRACTION: HClO₄ - HNO₃

DETECTION: Techtron AA5

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed

(b) REJECTS: discarded

* * *

ANALYST(S) W. L. TYPIST hi.

SUPERVISING CHEMIST L. Nicol CHECKED BY L.J. Nicol

COSTS:

SHIPPING CHARGE	\$-----
SAMPLE PREPARATION	\$ 50.00
ANALYSIS	\$250.00
OTHER	\$-----
TOTAL	\$300.00

SPECIALIZING IN TRACE ELEMENT ANALYSIS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

71-27-002

COMPANY Coin Canyon Mines REPORT No. _____ PAGE 1 OF 7

MARKING	Cu				MARKING	Cu			
Y - 1	51								
2	46				Y - 21	41			
3	45				22	20			
4	9				23	84	✓		
5	9				24	31			
6	150	✓			25	65			
7	50				26	35			
8	46				27	51			
9	57				28	40			
10	44				29	37			
11	51				30	15			
12	85	✓			31	73			
13	315	✓			32	35			
14	39				33	41			
15	33				34	40			
16	35				35	26			
17	83				36	75			
18	35				37	49			
19	36				38	81	✓		
Y - 20	18				Y - 39	27			

REMARKS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

71-27-002

COMPANY Coin Canyon Mines

REPORT No. _____

PAGE 2 OF _____

7

MARKING	Cu				MARKING	Cu			
Y - 40	25								
41	68				Y - 60	43			
42	25				61	51			
43	41				62	114	✓		
44	32				63	70			
45	41				64	30			
46	50				65	39			
47	38				66	24			
48	41				67	24			
49	24				68	69			
50	40				69	29			
51	190	✓			70	59			
52	86	✓			71	47			
53	41				72	40			
54	48				73	65			
55	55				74	46			
56	35				75	23			
57	35				76	37			
58	53				78	42			
Y - 59	43				Y - 79	54			

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

71-27-002

COMPANY Coin Canyon Mines

REPORT No. _____

PAGE 3 OF 7

MARKING	Cu				MARKING	Cu			
Y - 80	135	✓							
81	108	✓			Y' - 99	55			
82	34				100	31			
83	45				01	48			
84	41				02	41			
85	40				03	18			
86	84				04	38			
87	49				05	20			
88	29				06	41			
89	152	✓			08 (A)	53			
90	50				08 (B)	43			
91	43				09	42			
92	41				10	32			
93	82				11	39			
93 B	84				12	52			
94	47				13	81	✓		
95	53				14	37			
96	28				15	75			
97	35				16	31			
Y - 98	19				Y - 117	69			

REMARKS

Marked (A) & (B) in lab.

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

71-27-002

COMPANY Coin Canyon Mines

REPORT No. _____

PAGE 4 OF 7

MARKING	Cu				MARKING	Cu			
Y - 118	43								
19	20				Y - 138	73			
120	39				39	94	✓		
21	16				40	62			
22	47				41	33			
23	26				42	97	✓		
24	36				43	36			
25	36				44	58			
26	39				45	12			
27	31				46	26			
28	23				47	40			
29	27				48	34			
30	47				49	50			
31	25				50	45			
32	56				51	28			
33	41				52	50			
34	42				53	60			
35	29				54	53			
36	123	✓			55	50			
Y - 137	26				Y - 156	60			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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NORTH VANCOUVER, B.C. CANADA

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71-27-002

COMPANY Coin Canyon Mines

REPORT No.

PAGE 5 OF 7

MARKING	Cu				MARKING	Cu			
Y - 157	30								
58	47				Y - 177	35			
59	24				78	71			
60	51				79	126	✓		
62	33				80	20			
62 A	29				81	29			
63	25				82	85	✓		
64	25				83	90	✓		
65	30				84	32			
66	24				85	50			
67	25				86	8			
68	26				87	64			
69	34				88	48			
70	41				89	70			
71	40				90	83			
72	26				91	50			
73	41				92	26			
74	116	✓			93	41			
75	50				94	50			
Y - 176	36				Y - 195	32			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Coin Canyon Mines REPORT No. 71-27-002 PAGE 6 OF 7

MARKING	Cu				MARKING	Cu			
Y - 196	34								
97	55				Y - 216	35			
98	50				17	51			
99	112	✓			18	90			
200	70				19	30			
01	66				20	98			
02	21				21	420	✓		
03	61				22	25			
04	47				23	123	✓		
05	160	✓			24	850	✓		
06	52				25	78			
07	150	✓			26	145	✓		
08	56				27	34			
09	128	✓			28	25			
10	46				29	41			
11	27				30	23			
12	17				31	24			
13	16				32	25			
14	11				33	60			
Y - 215	46				Y - 234	275	✓		

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

71-27-002

COMPANY Coin Canyon Mines

REPORT No.

PAGE 7 OF 7

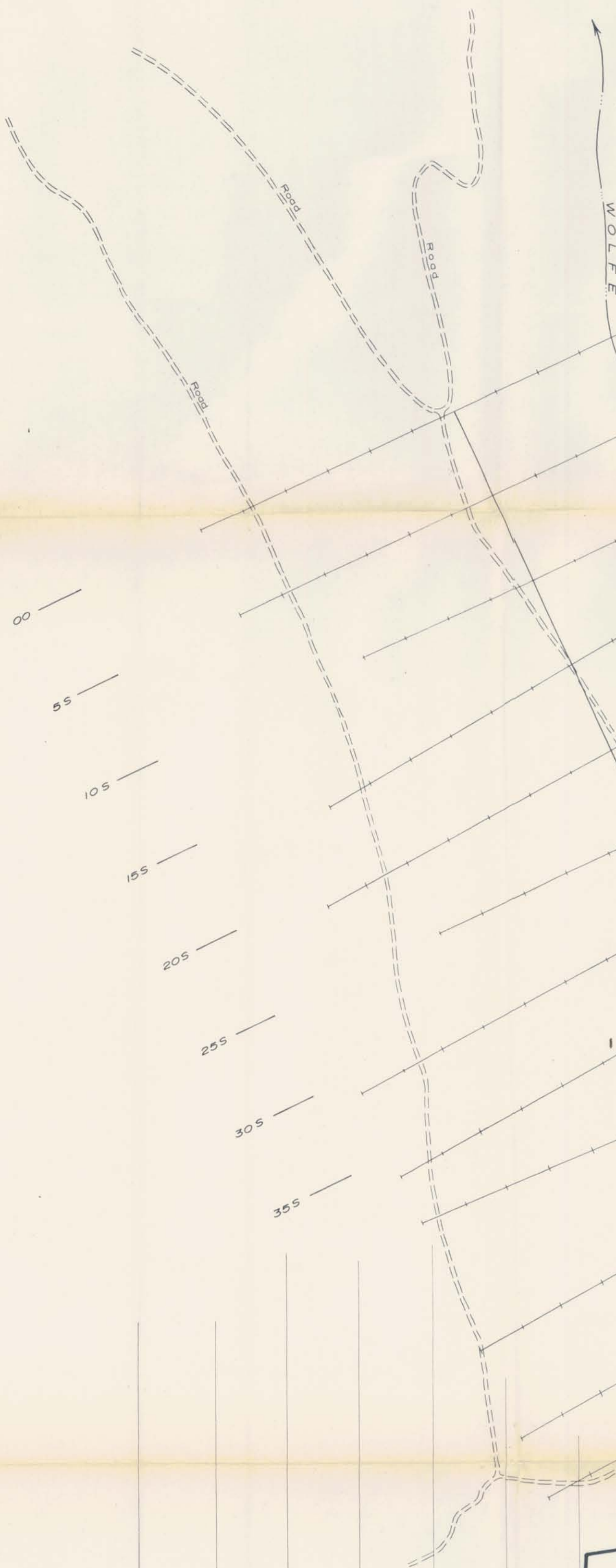
MARKING	Cu				MARKING				
Y - 235	31								
36	47								
37	48								
38	21								
39	47								
40	87								
41	124	✓							
42	40								
43	248	✓							
44	15								
45	26								
46	11								
47	20								
48	20								
49	39								
Y - 250	79								

REMARKS

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MAGNETIC DECLINATION 23° E.



NEWMONT
BASELINE 80N

228 E
232 E
236 E
240 E
244 E
248 E

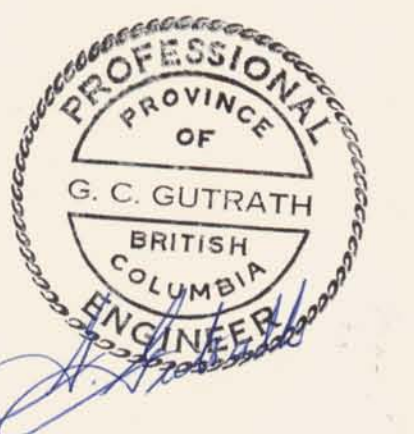
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3188 MAP #1

3188

M-1

COIN CANYON MINES LTD.

'Y' CLAIM GROUP
COPPER MOUNTAIN AREA
SIMILKAMEEN MD., BC.



SCALE
FEET 500 250 0 500 1000 1500 2000 FEET



MAGNETIC DECLINATION 23°E.



NEWMONT
BASELINE SON

228E
232E
236E
240E
244E
248E
252E
256E

NOTE: CONTOUR INTERVAL
40, 60, 80, 100, 200, 300 p.p.m.

TO ACCOMPANY REPORT BY:
P.P. NIELSEN, B.Sc., GEOPHYSICIST
G.C. GUTRATH, B.Sc., P.Eng. - GEOLOGIST
ATLED EXPLORATION MANAGEMENT LTD., VANCOUVER, B.C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3188 MAP 4/2

COIN CANYON MINES LTD.

'Y' CLAIM GROUP
COPPER MOUNTAIN AREA
SIMILKAMEEN MD, BC.
COPPER
GEOCHEMICAL SOIL SURVEY



SCALE
FEET 500 1000 1500 2000