

GEOLOGICAL - GEOCHEMICAL EVALUATION REPORT

ON THE

ACE CLAIM GROUP

ACE 1 to 32, ACE 35 to 48

Mayo Mining District  
Yukon Territory

N.T.S. 106-C-7

(64°27'N, 132°34'W)

AUGUST 12th - 21st, 1974

FOR

CHATEX INDUSTRIES LTD. (N.P.L.)

Royal Centre, P.O. Box 11117  
1055 West Georgia Street  
Vancouver, B. C.

BY

C. M. Hamilton, P.Eng.  
Geologist

CORDILLERAN ENGINEERING LIMITED  
1418 - 355 Burrard Street  
Vancouver, B.C., V6C 2G8

OCTOBER, 1974



*N.M.E.A.P.  
Received  
Dec. 17/74.*

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## I N T R O D U C T I O N

This report describes the results of geological and geochemical investigations of 46 mineral claims located near the confluence of Goz and Duo Creeks in the Mayo Mining District, Yukon Territory ( $64^{\circ}27'N$ ,  $132^{\circ}34'W$ ). The project was carried out during August 12th through 21st, 1974, by Cordilleran Engineering Limited at the request of Chatex Industries Ltd. (N.P.L.).

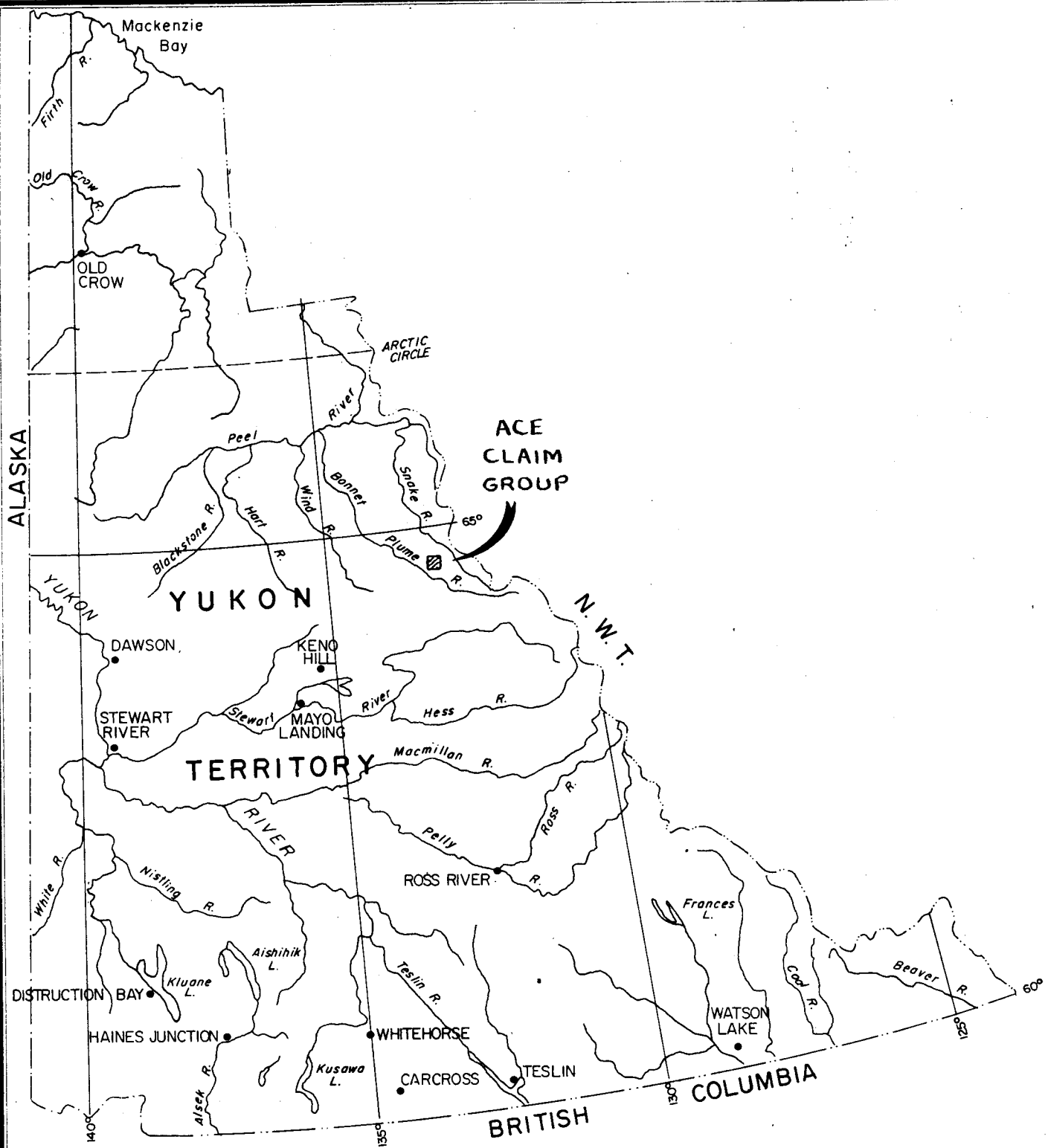
The overall aim of the project was to evaluate the mineral potential of the claim group by geological mapping, prospecting, and geochemical sampling. The claims are situated adjacent to Barrier Reef Resources "Goz Creek Property" where extensive lead-zinc mineralization occurs in a massive dolostone host unit.

The area is accessible by helicopter from Mayo,

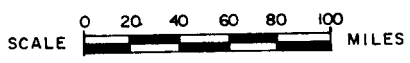
INTRODUCTION (cont'd)

Y.T. (130 miles) or by float plane to Goz Lake and thence by helicopter (8 miles) to the property. A base camp was established on Goz Creek to the east of the property and occupied during the field work. Trans North Turbo Air, Ltd., Whitehorse, provided float plane support, maintained radio communications, and expedited supplies from Mayo. Helicopter support was provided by Northern Mountain Helicopters, Prince George, B.C.

The Ace claim group consists of 46 mineral claims including the Ace 1 to 32, and the Ace 35 to 48, which were recorded on October 3, 1973. The work described in this report has been submitted to the Mayo Mining Recorder to meet assessment requirements and, if acceptable, the claims will be in good standing until December 31, 1976. A complete list of claims and corresponding record numbers is contained in the appendix of this report.



# LOCATION MAP ACE CLAIM GROUP



BY

CORDILLERAN ENGINEERING LTD.  
1418 - 355 BURRARD STREET  
VANCOUVER 1, B.C.  
NOV. 1973

FIGURE 1

## G E O L O G Y

The Ace claim group includes approximately 3.2 square miles of rugged alpine terrain which is underlain by a thick sequence of folded and faulted Lower Cambrian sedimentary rocks. Elevations range from about 3,900 feet to 6,100 feet (highest peak). The entire property is above timberline and has good outcrop exposure.

The Nadaleen River Map-Area (N.T.S. 106-C) has been studied and mapped by S. L. Blusson and preliminary maps (G.S.C. Open File 206) are available. An earlier geological reconnaissance map of the Northern Selwyn Mountains was made by J. O. Wheeler (G.S.C. Paper 53-7) in 1953. These references provided a rough stratigraphic and structural basis for the present field work.

A geological map of the property was made using

GEOLOGY (cont'd)

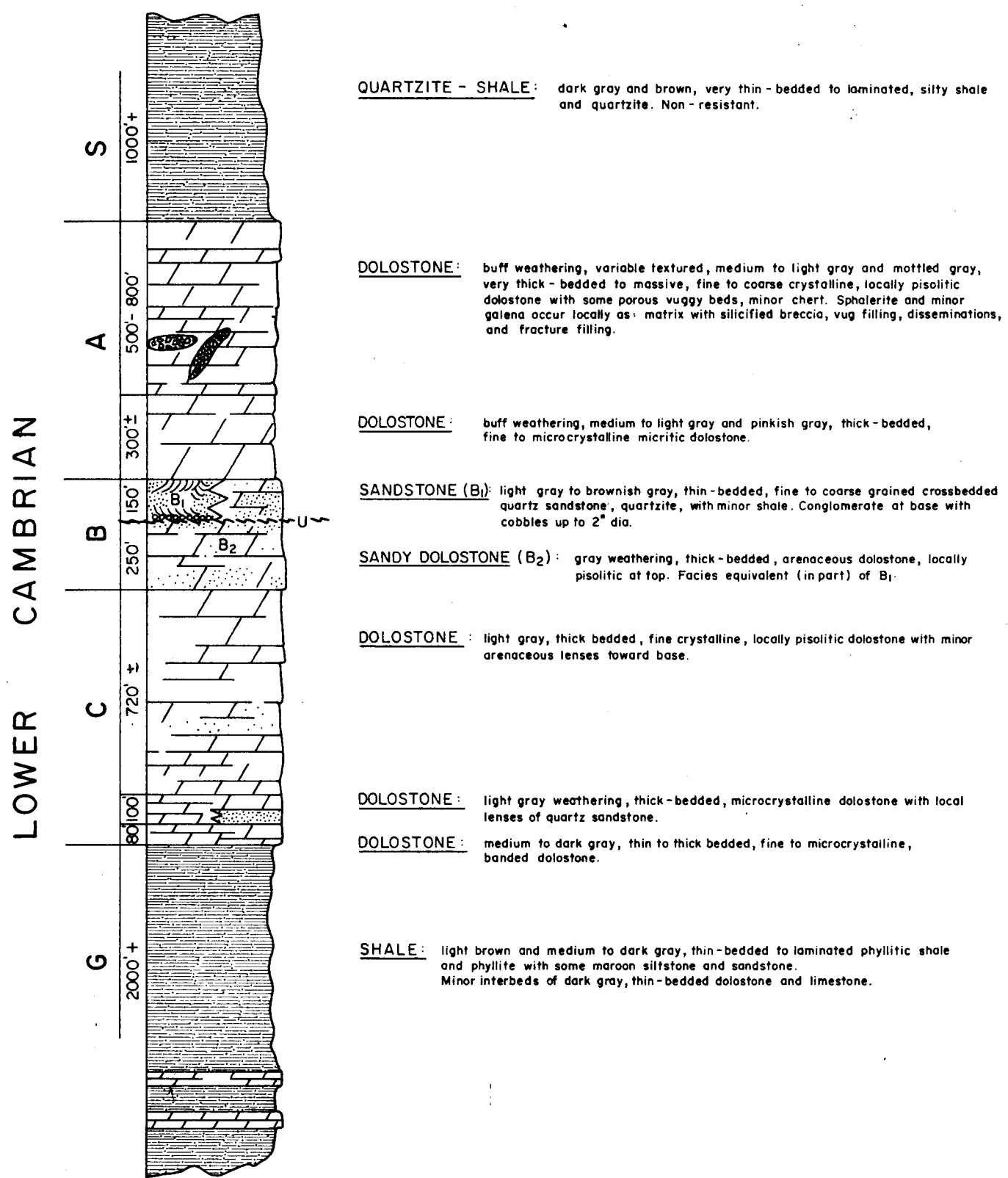
a 1"=1,000' scale airphoto print. This information was subsequently compiled (Plate 2) on a 1"=1,000' scale topographic enlargement of the 1:50,000 series government maps 106-C-7.

Regional deformation has resulted in a structural style that is characterized by predominantly west-northwest trending fold axes and faults. The most important features are believed to be Late Mesozoic (Laramide) age and are the result of compressional forces oriented in a northeast-southwest direction.

Several prominent northwest trending reverse faults occur near the northern boundary of the property and can be followed for several miles. These parallel faults have displacements of 200 to 900 feet with the south side upthrown. Several other faults with various orientations and displacements are also recognized within the carbonate block which underlies most of the property.

The local stratigraphy includes five distinct mappable units which are illustrated by Figure 2 (page 6). These units are part of the Lower Cambrian section and are believed to be

# GENERALIZED STRATIGRAPHIC SECTION GOZ CREEK AREA, YUKON TERRITORY



SCALE: 1 INCH = 500 FEET

FIGURE 2

GEOLOGY (cont'd)

a facies equivalent to the Sekwi Formation. They are described in ascending stratigraphic order as follows:

UNIT G

The rocks comprising Unit G are mostly light brown and medium to dark gray, thin-bedded to laminated phyllitic shale with some gray to maroon siltstone and sandstone. This unit also includes a few minor interbeds of dark gray, thin-bedded dolostone and limestone. The unit is non-resistant and generally forms negative topographic features such as the valley of Goz Creek. The phyllitic shales exhibit well developed cleavage, especially within areas of intense deformation near major faults. The lithologic contrast between the shales and the overlying carbonates allows accurate mapping of the contact boundaries. This contact is also readily discernible on the air photographs.

Unit G underlies the northeast margin of the claim group and, although no stratigraphic sections were measured; it appears to be at least 2,000 to 4,000 feet in thickness. This unit does not have much potential as a host unit for lead-zinc deposits.

GEOLOGY (cont'd)UNIT C

Unit C conformably overlies Unit G and consists of resistant medium to light gray, thin-to thick-bedded, medium to microcrystalline calcareous dolostone. This unit contains locally porous, vuggy pisolitic beds and minor quartz sand. The pisolites are typically 3 to 4 millimeter diameter concentric spherules. The lack of a distinct nucleus (some specimens are hollow) suggests that these may be, in part, algal pisolites or oncolites. The depositional environment was most likely a relatively shallow carbonate shelf subject to strong submarine currents.

Facies changes are recognized in the lower portion of Unit C where it contains sandstone and gray weathering, thin-bedded arenaceous dolostone beds. The middle and upper parts of the unit show a more consistent regional pattern and are the predominant lithology.

Numerous minor smithsonite occurrences and at least one important sphalerite-galena showing, located on the Barrier Reef property, are found in the upper part of Unit C. This showing is located approximately 3 miles southeast of the Ace claims and within the same carbonate block.

Unit C has some recognizable potential as a host unit and minor smithsonite mineralization was found within this unit on the Ace claim group. On a regional basis, Unit C averages between 900 to 1,100 feet in thickness, however, it may be as much as 1,500 feet thick where it occurs on the Ace claims.

GEOLOGY (cont'd)UNIT B

Unit B is comprised of two distinct members and is characterized by lateral facies changes. The lowest member ( $B_2$ ), which ranges from 250 to 400 feet thick, consists of thick-bedded to massive, gray weathering, locally pisolitic dolostone and arenaceous dolostone. It is often porous, vuggy, and contains considerably more coarse well-rounded quartz sand than the underlying Unit C. The conformable contact between Unit C and B is transitional and is represented by a gradual decrease in sand content downward. This boundary, which is often difficult to recognize, is taken to be the base of the lowest arenaceous dolostone.

The upper member ( $B_1$ ) is a prominent resistant gray weathering dolomitic quartz sandstone and quartzite "marker bed" which disconformably overlies the lower member. The unit contains a few thin shale interbeds and is characterized by conspicuous tangential sets of cross bedding with some graded bedding. A thin basal conglomerate contains cobbles up to 2" in diameter and separates the two members. The thickness of the  $B_1$  member ranges from 0 to 150 feet and grades southeastward into arenaceous dolostone ( $B_2$  member). Where the upper ( $B_1$ ) member is absent the disconformity is not obvious, but can be recognized in a few localities.

Several occurrences of sphalerite and pyrite have been found in fractures within the  $B_2$  member along Goz Creek on the Barrier Reef property. The upper ( $B_1$ ) member is essentially barren. No mineralization was found in the B unit (undivided) which outcrops on the Ace claim group.

GEOLOGY (cont'd)UNIT A

Unit A consists of buff weathering, massive, fine to coarse crystalline dolostone. The lower 300 feet of this unit is predominantly uniform textured micritic dolostone. The upper part is variable textured buff to mottled gray, massive, locally pisolitic dolostone with minor chert. The upper member is locally vuggy and contains silicified dolostone breccia. This member is considered the primary host unit for the mineralization on the Barrier Reef property, where sphalerite and galena occur as breccia matrix, vug fillings, and disseminations.

Unit A has a total thickness of approximately 800 feet, but has been removed by erosion on the Ace claim group.

UNIT S

Unit S conformably (?) overlies Unit A and is composed of gray to brown, very thin-bedded to laminated silty shale and sandstone. No sections of this unit were measured, but it is believed to be approximately 1,000 feet in thickness. No outcrops of this unit are recognized on the Ace claim group.

GEOLOGY (cont'd)

FIGURE 3: Ace claim group. Looking northwest showing Unit C (left) and Unit G (to right of creek).

## G E O C H E M I S T R Y

A geochemical soil sampling programme was carried out to evaluate the favourable carbonate units underlying the property. Samples of talus fines were collected using a 200 foot spacing along three separate contour lines of varying elevations. A total of 220 samples were taken and submitted to Bondar Clegg Ltd., Whitehorse, Y.T., for sample preparation and analysis. The samples were dried, sieved to -80 mesh, and analyzed for lead and zinc using standard atomic absorption methods. The sample locations and results are shown on Plates 3 and 4.

A frequency distribution plot (Figures 4 and 5) was prepared to aid in the interpretation of the analytical results and allow visual estimation of the background, threshold, and anomalous values for lead and zinc. The zinc results show a broad range (8 to 4,000 ppm) with moderate background (60 ppm). A total of 104 samples are anomalous, i.e., over 190 ppm, and

GEOCHEMISTRY (cont'd)

66 of these are considered strongly anomalous (over 500 ppm). The lead results show a normal distribution with most values well within the range of background plus three standard deviations. Lead values range from 36 to 143 ppm and only 3 samples are considered anomalous, i.e., above 110 ppm.

One rock sample was taken and submitted for geochemical analysis. In addition, 6 rock chip samples were collected from various localities and assayed for lead and zinc. These results are discussed in a subsequent part of this report (see Mineralization).

# LEAD FREQUENCY DISTRIBUTION ACE CLAIM GROUP

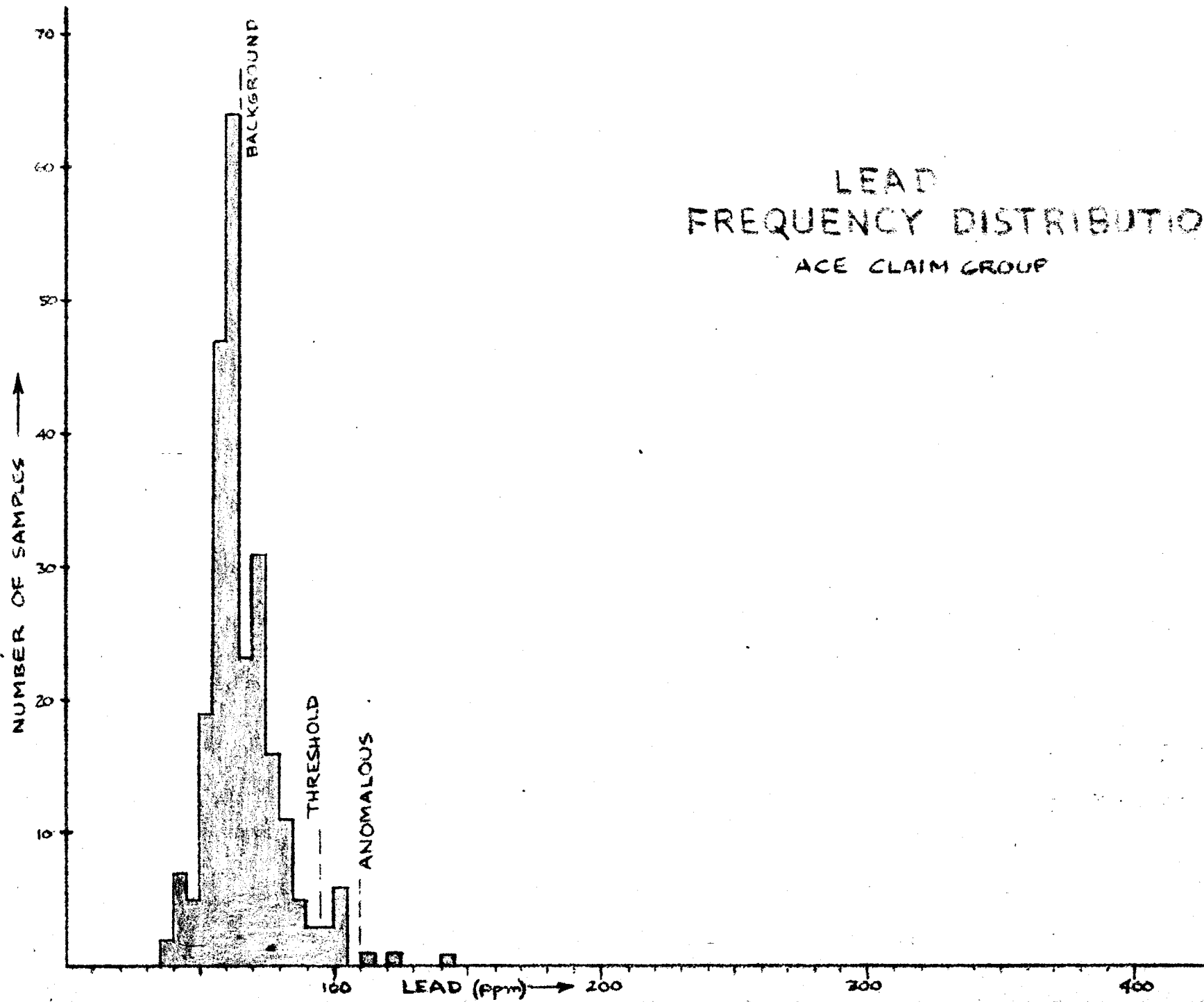


FIGURE 4

# ZINC FREQUENCY DISTRIBUTION ACE CLAIM GROUP

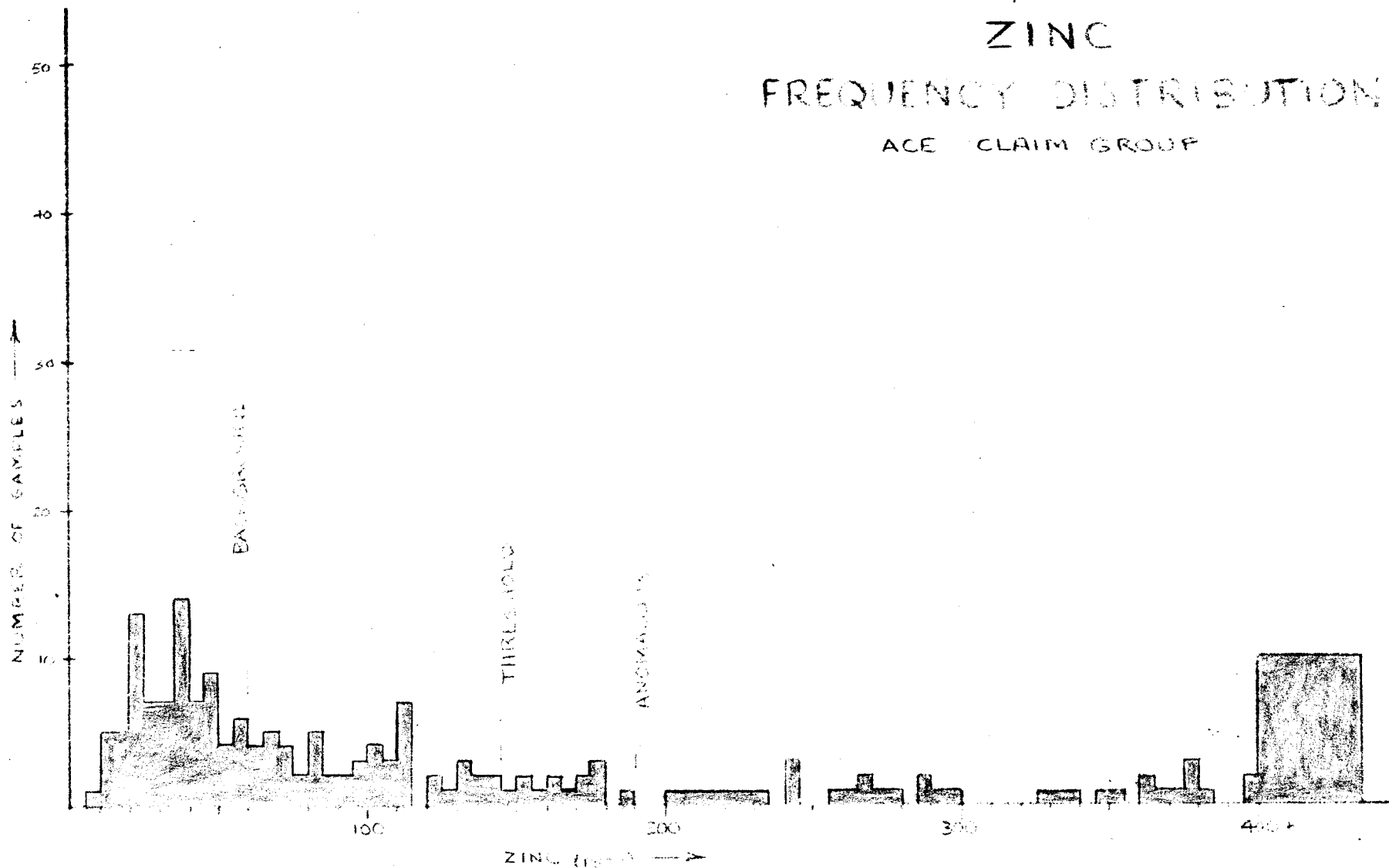


FIGURE 5

## MINERALIZATION

A mineralized gossanous zone was found on the Ace 14 claim at an elevation of 6,000 feet. At this locality smithsonite and hydrozincite occur with quartz as fracture fillings within a 50' x 30' area in the upper part of Unit C. A continuous rock chip sample (#4130) was taken across a 10 foot section of outcrop and assayed 9.20% total zinc. A typical specimen (#4131) was also assayed and contained 9.88% total zinc. A comparison of assays for total and soluble zinc (see Appendix) indicates that most of the zinc occurs in the soluble form, either as smithsonite or hydrozincite. These are believed to be secondary weathering products after sphalerite, however, no visible sphalerite was identified in any of the samples. The presence of minor limonite suggests that weathered pyrite is associated with the mineralization.

Four additional locations, including a prominent

MINERALIZATION (cont'd)

gossan with massive pyrite, were prospected and sampled. These samples assayed less than 1% total zinc.

## EVALUATION

The Ace claim group is situated approximately one mile north of Barrier Reef Resources "Goz Creek Property" where extensive lead-zinc mineralization occurs in a massive dolostone host unit (Unit A). A total of 20 diamond drill holes were completed in one area of the Goz property during the 1974 field season with encouraging results. In excess of 500,000 tons averaging 13% zinc in sulphides are indicated by drilling, and further exploration is planned for 1975.

Unit A, and most of Unit B, have been removed by erosion on the Ace claims, however, the underlying unit (Unit C), which is present on the property, appears to have some potential as host unit. A small smithsonite showing was found in the upper part of this unit. The showing is located on a narrow ridge and is not considered extensive.

A strong zinc geochemical anomaly with consistently

EVALUATION (cont'd)

high values occurs to the southwest of this showing at the west end of lines A and B (see Plate 3). A broad anomaly is also found along the west end of sample line C. Numerous other smaller zinc anomalies and one lead anomaly at the east end of sample lines A and B are also recognized. The geochemical lab results were not obtained until after the close of the field season and no follow-up work was completed.

In conclusion, Unit C has recognizable potential as a host unit for stratabound zinc deposits. This is evidenced by broad geochemical response and secondary smithsonite mineralization found on the Ace claim group. In addition, significant sphalerite showings occur within this unit on the Barrier Reef property. A follow-up programme of detailed prospecting and rock sampling is recommended to provide a more complete economic evaluation of the Ace claim group.

Respectfully submitted

CORDILLERAN ENGINEERING LIMITED



A handwritten signature in black ink that reads 'C. Michael Hamilton'.

C. M. Hamilton, P.Eng.  
Geologist

REFERENCESBLUSSON, S.L.:

- 1974: Preliminary geological map,  
Nadaleen River Map-Area, N.T.S. 106-C  
G.S.C. Open File 206.

WHEELER, J.O.:

- 1954: "A Geological Reconnaissance of the  
Northern Selwyn Mountains Region,  
Yukon and Northwest Territories,  
G.S.C. Paper 53-7, 42 p.

CLAIM RECORD

<u>NAME</u>	<u>RECORD NUMBER</u>	<u>EXPIRY DATE</u>
Ace 1	Y 85822	December 31, 1976.
Ace 2	Y 85823	December 31, 1976.
Ace 3	Y 85824	December 31, 1976.
Ace 4	Y 85825	December 31, 1976.
Ace 5	Y 85826	December 31, 1976.
Ace 6	Y 85827	December 31, 1976.
Ace 7	Y 85828	December 31, 1976.
Ace 8	Y 85829	December 31, 1976.
Ace 9	Y 85830	December 31, 1976.
Ace 10	Y 85831	December 31, 1976.
Ace 11	Y 85832	December 31, 1976.
Ace 12	Y 85833	December 31, 1976.
Ace 13	Y 85834	December 31, 1976.
Ace 14	Y 85835	December 31, 1976.
Ace 15	Y 85836	December 31, 1976.
Ace 16	Y 85837	December 31, 1976.
Ace 17	Y 85838	December 31, 1976.
Ace 18	Y 85839	December 31, 1976.
Ace 19	Y 85840	December 31, 1976.
Ace 20	Y 85841	December 31, 1976.
Ace 21	Y 85842	December 31, 1976.
Ace 22	Y 85843	December 31, 1976.
Ace 23	Y 85844	December 31, 1976.
Ace 24	Y 85845	December 31, 1976.
Ace 25	Y 85846	December 31, 1976.
Ace 26	Y 85847	December 31, 1976.
Ace 27	Y 85848	December 31, 1976.
Ace 28	Y 85849	December 31, 1976.
Ace 29	Y 85850	December 31, 1976.
Ace 30	Y 85851	December 31, 1976.
Ace 31	Y 85852	December 31, 1976.
Ace 32	Y 85853	December 31, 1976.
Ace 35	Y 85856	December 31, 1976.
Ace 36	Y 85857	December 31, 1976.
Ace 37	Y 85858	December 31, 1976.
Ace 38	Y 85859	December 31, 1976.
Ace 39	Y 85860	December 31, 1976.
Ace 40	Y 85861	December 31, 1976.
Ace 41	Y 85862	December 31, 1976.
Ace 42	Y 85863	December 31, 1976.
Ace 43	Y 85864	December 31, 1976.
Ace 44	Y 85865	December 31, 1976.
Ace 45	Y 85866	December 31, 1976.
Ace 46	Y 85867	December 31, 1976.
Ace 47	Y 85868	December 31, 1976.
Ace 48	Y 85869	December 31, 1976.

To: \_\_\_\_\_  
 PAGE No. One

C O R R E C T E D C O P Y  
**BONDAR-CLEGG & COMPANY LTD.**

REPORT No. 44-94  
 DATE: August 30, 1974

Cordilleran Engineering Ltd.  
 1418 - 355 Burrard St.  
 Vancouver, B.C.

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described Rock samples.

MARKED	GOLD		SILVER	Pb	Zn Tot.	Zn Sol.					TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
4130				0.01	9.20	7.56					
4131				0.01	9.88	8.72					
4136				0.03	0.77	0.13					
4137				0.02	0.20	0.07					
4138				0.01	0.02	0.01					
4139				0.01	0.01	0.01					

This Copy is to correct the Copy dated August 29.

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# BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

## Geochemical Lab Report

Extraction Hot Aqua Regia  
 Method Atomic Absorption  
 Fraction Used -80 Mesh

Report No. 44 - 136  
 From Cordilleran Engineering Ltd.  
 Date August 30, 1974 19\_\_

SAMPLE NO.	Pb ppm	Zn ppm		SAMPLE NO.	Pb ppm	Zn ppm	
A 1	79	660		A 32	60	4000	
2	78	730		33	60	132	
3	78	395		34	69	500	
4	79	540		35	94	209	
5	60	256		36	72	114	
6	60	600		37	85	37	
7	56	920		38	75	25	
8	60	900		39	100	59	
9	61	3100		40	67	23	
10	52	2300		41	102	14	
11	60	1000		42	104	37	
12	57	1540		43	110	24	
13	64	700		44	100	18	
14	59	398		45	57	49	
15	56	289		46	76	35	
16	69	750		48	70	590	
17	80	370		49	64	95	
18	60	131		50	69	330	
19	74	108		51	65	1820	
20	56	244		B 1	66	760	
21	50	214		2	63	293	
22	56	49		3	70	111	
23	61	134		4	66	166	
24	58	46		5	78	35	
25	50	57		6	104	720	
26	57	111		7	78	380	
27	55	100		8	120	58	
28	62	345		9	143	2500	
29	70	850		10	99	59	
30	62	1520		11	77	33	
31	78	1600		12	77	26	

13 60 40

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## Geochemical Lab Report

Report No. 44-136

Page No. 2

SAMPLE NO.	Pb ppm	Zn ppm	ppm		SAMPLE NO.	Pb ppm	Zn ppm		
B 14	63	33			B 50	59	650		
15	57	53			51	64	600		
16	56	26			52	58	350		
17	72	38			53	58	1200		
18	66	52			C 1	69	850		
19	86	68			2	62	325		
20	58	98			3	60	950		
21	76	178			4	52	850		
22	73	298			5	59	1020		
B 23	74	40			6	42	1800		
24	59	36			7	60	260		
25	59	60			8	59	980		
26	61	70			9	38	860		
27	72	50			10	59	700		
28	60	80			11	36	650		
29	59	185			12	52	1670		
30	56	550			13	68	337		
31	56	110			14	60	36		
32	56	820			15	64	880		
33	62	285			16	50	720		
34	62	48			17	66	1230		
35	58	170			18	60	1230		
36	94	2100			19	54	1080		
37	56	225			20	60	820		
38	61	600			21	70	600		
39	60	70			22	74	450		
40	70	1400			23	74	560		
41	64	265			24	80	540		
42	64	200			25	77	375		
43	72	1080			26	74	375		
44	60	270			27	70	82		
45	56	620			28	71	106		
46	75	230			29	61	240		
47	63	650			30	63	48		
48	52	1600			31	72	500		
49	61	800			32	80	540		

## Geochemical Lab Report

Report No. 44-136

Page No. 3

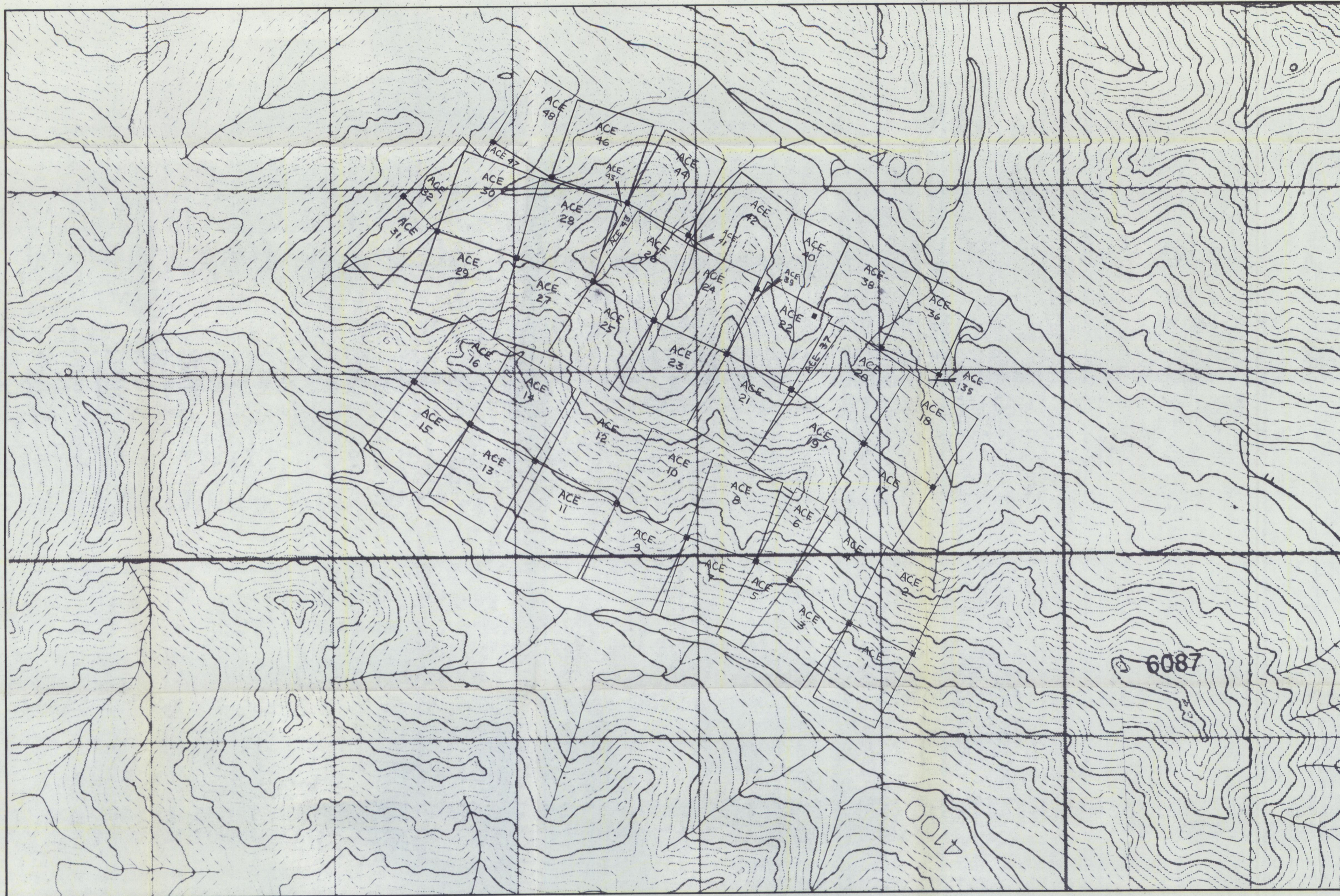
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35	73	86			71	60	58		
36	60	445			72	63	164		
37	62	70			73	62	66		
38	57	90			74	71	135		
39	92	32			75	73	279		
40	56	48			76	65	93		
41	64	76			77	66	74		
42	71	47			78	72	40		
43	62	42			79	46	40		
44	61	39			80	55	20		
45	72	58			81	56	17		
46	62	98			82	60	20		
47	59	376			83	40	8		
48	73	153			84	55	16		
49	82	66			85	54	20		
50	70	740			86	54	64		
51	71	700			87	60	24		
52	72	102			88	58	36		
53	100	110			89	59	135		
54	62	241			90	52	103		
55	48	87			91	61	128		
56	54	66			92	51	100		
57	55	84			93	44	265		
58	64	178			94	62	160		
59	65	800			95	60	39		
60	58	362			96	64	143		
61	79	1030			97	46	108		
62	80	1635			98	50	42		
63	66	600			99	40	10		
64	64	480			100	52	21		
65	66	365			D 1	58	26		
66	70	560			2	55	28		
67	88	400			3	49	60		
68	66	360			4	50	46		

## Geochemical Lab Report

Report No. 44-136

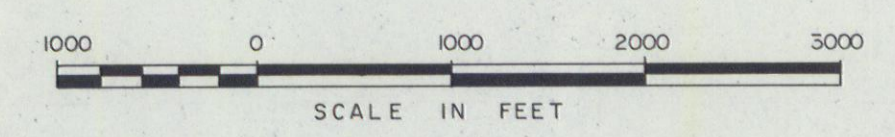
Page No. 4

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D5	66	148			D 41	64	1080		
6	56	110			D 42	66	760		
7	57	560			CHX "A"	600	140		
8	65	10							
9	50	30							
10	55	10							
11	55	10							
12	54	18							
13	54	22							
14	64	17							
15	64	22							
16	52	34							
17	56	20							
18	57	22							
19	80	34							
20	98	170							
21	60	36							
22	80	36							
23	80	120							
24	44	22							
25	44	34							
26	60	48							
27	66	38							
28	73	28							
29	49	40							
30	61	20							
31	43	80							
32	64	122							
33	82	84							
34	96	65							
35	68	36							
36	79	52							
37	72	60							
38	79	28							
39	69	155							
40	62	175							

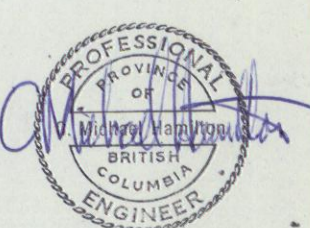


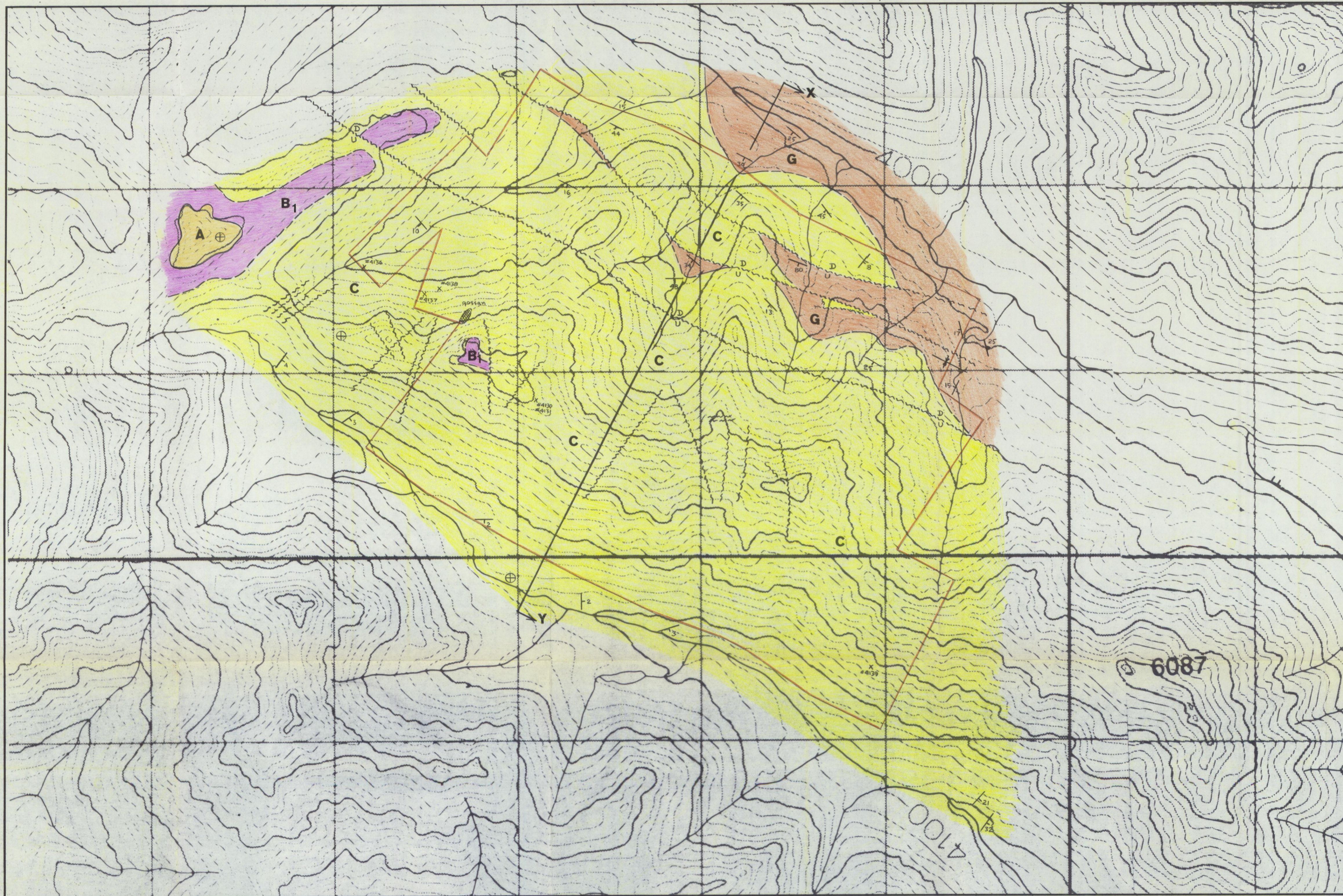
CHATEX INDUSTRIES LTD. (NPL)  
**CLAIM MAP**

ACE CLAIM GROUP  
 NADALEEN RIVER AREA (N.T.S. 106C)  
 MAYO MINING DISTRICT, YUKON TERRITORY



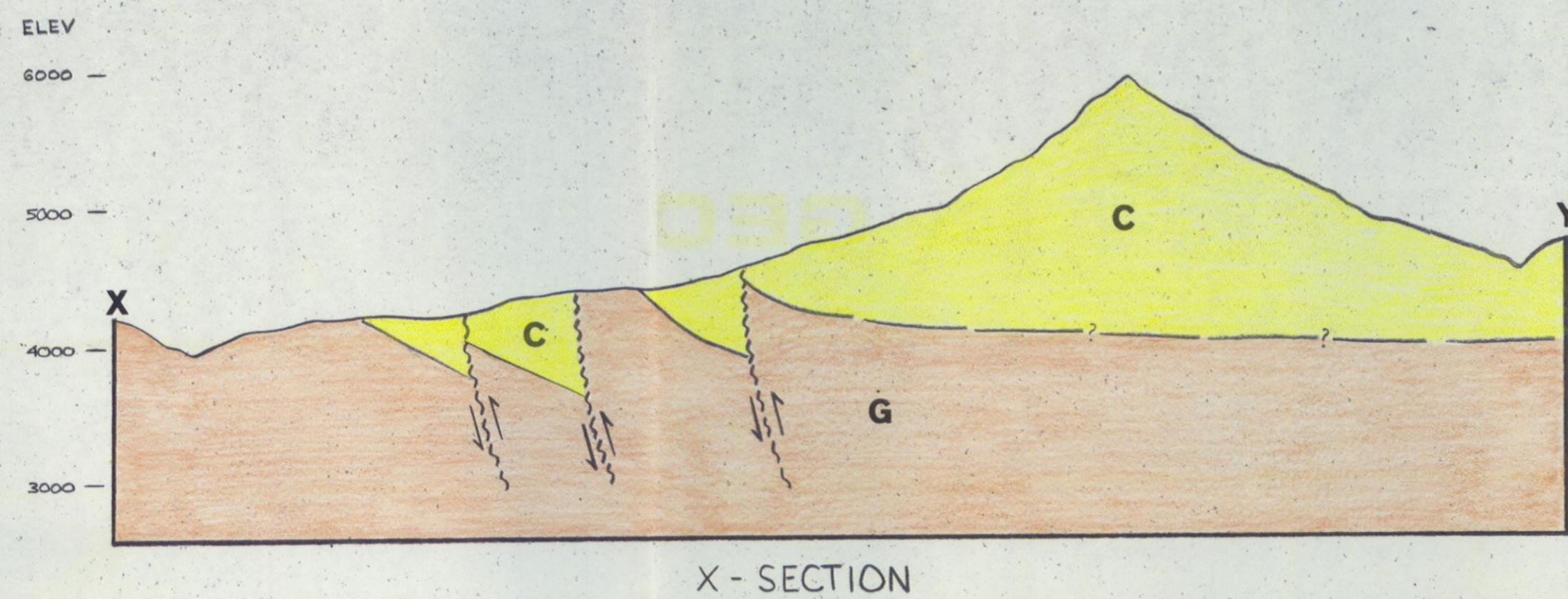
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 1418 - 355 BURRARD STREET  
 VANCOUVER, B.C.  
 OCT. 1974



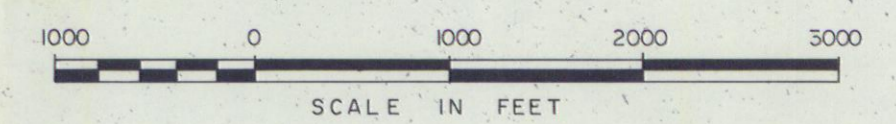


**LEGEND**

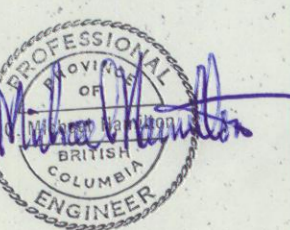
- A** DOLOSTONE: buff weathering, massive, variable textured; fine to coarse crystalline, locally pisolitic dolostone with local silicified breccia.
- B<sub>1</sub>** SANDY DOLOSTONE-QUARTZITE: light gray weathering, thick bedded, arenaceous dolostone and quartzite.
- C** DOLOSTONE: light gray, thick bedded, pisolitic dolostone. Includes Unit B<sub>2</sub>.
- G** SHALE: light brown to dark gray, thin-bedded phyllitic shale and phyllite. Minor interbeds of dolostone.
- STRIKE AND DIP
- CLEAVAGE
- FLAT LYING BEDS
- FAULT
- GEOLOGICAL CONTACT: definite, uncarved
- X** ROCK SAMPLE LOCATION: with sample number. See Appendix for assays.

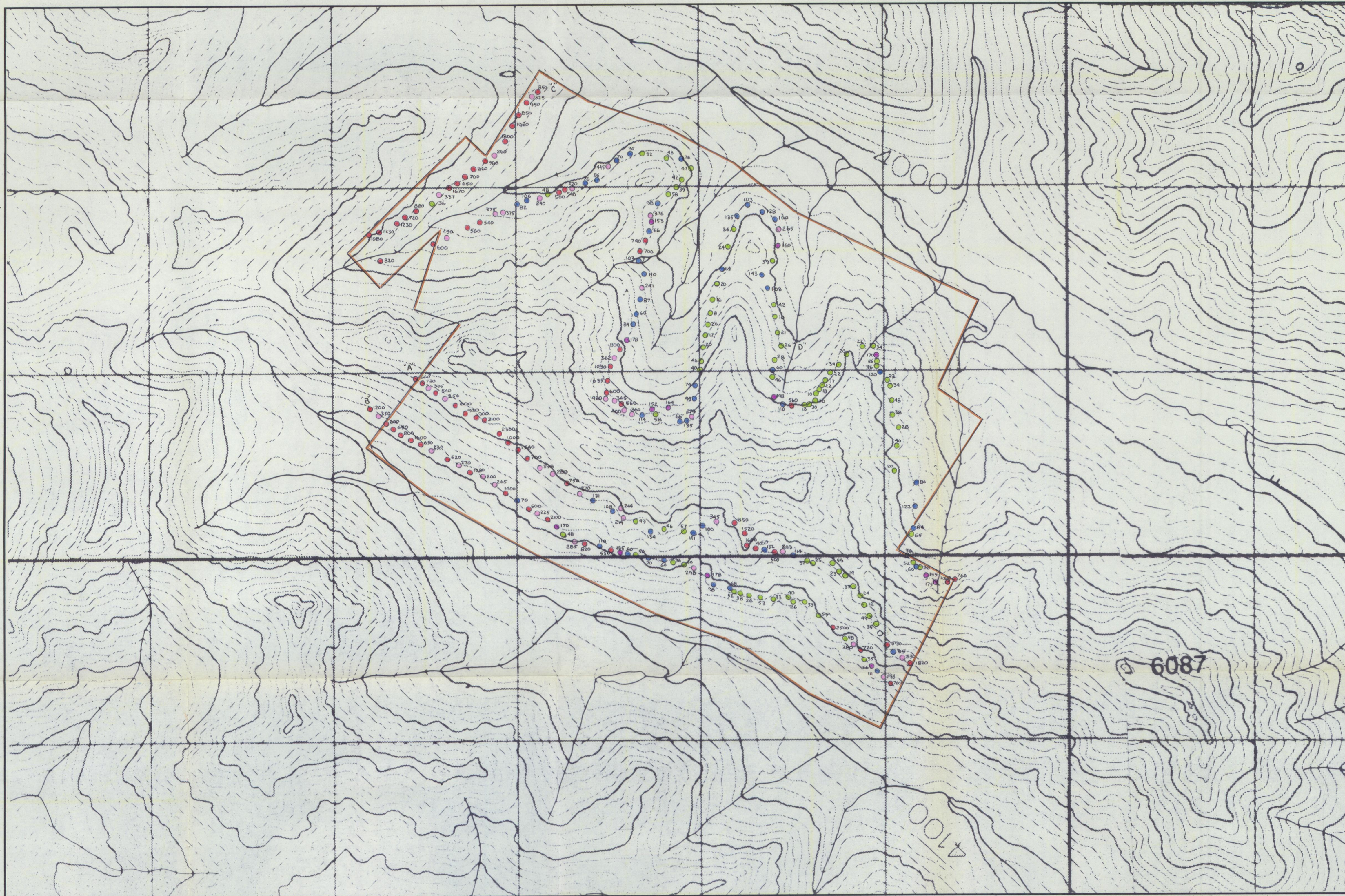


CHATEX INDUSTRIES LTD. (NPL)  
**GEOLOGICAL MAP**  
 ACE CLAIM GROUP  
 NADALEEN RIVER AREA (N.T.S. 106C)  
 MAYO MINING DISTRICT, YUKON TERRITORY



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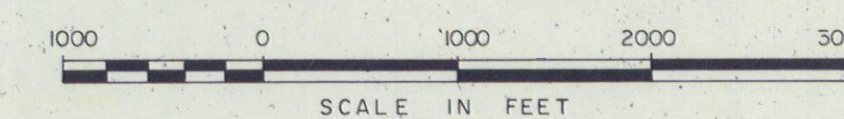
**LEGEND**

	ZINC CONTENT
● BACKGROUND	0 TO 59 ppm
● ABOVE BACKGROUND	60 TO 144 ppm
● POSSIBLE ANOMALY	145 TO 189 ppm
● ANOMALY	190 TO 499 ppm
● STRONG ANOMALY	500+ ppm

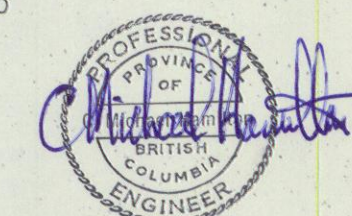
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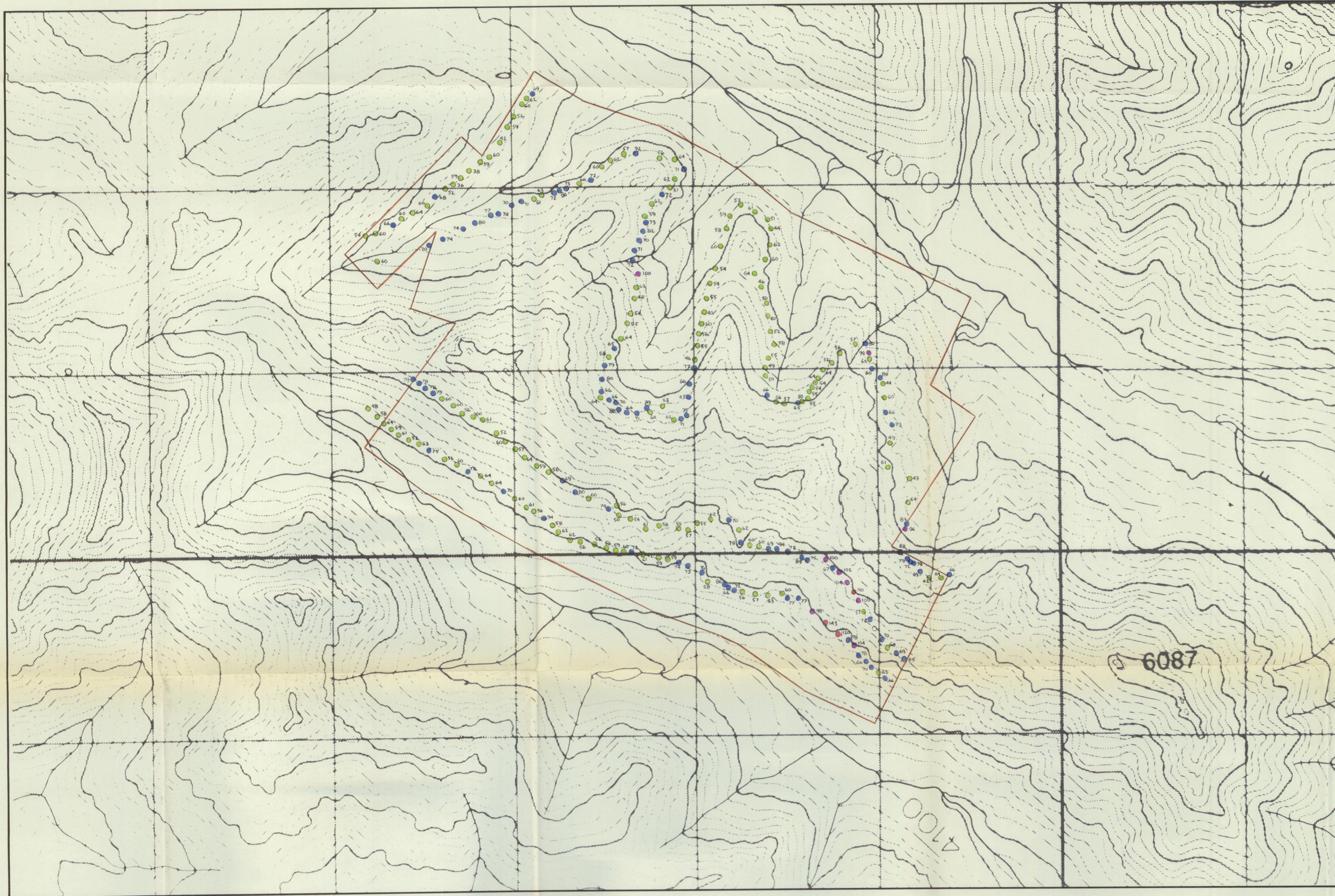
**ZINC**

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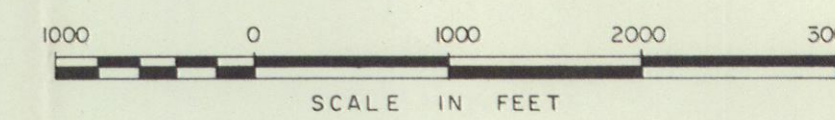
LEGEND

	<u>LEAD CONTENT</u>
● BACKGROUND	0 TO 64 ppm
● ABOVE BACKGROUND	65 TO 94 ppm
● POSSIBLE ANOMALY	95 TO 109 ppm
● ANOMALY	110 + ppm

CHATEX INDUSTRIES LTD. (NPL)

**LEAD**

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