

REPORT ON THE
SIG CLAIM GROUP
EAST THURLOW ISLAND,
VANCOUVER MINING DIVISION,
FOR
GRANDORA EXPLORATIONS LTD. (NPL)

53607

MAPS AND ILLUSTRATIONS

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- #4 Histogram Copper In Soils
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Department of	
Mines and Geothermal Resources	
ACTE SURVEY REPORT	
NO. 5367	MAP

REPORT ON THE
SIG CLAIM GROUP
EAST THURLOW ISLAND,
VANCOUVER MINING DIVISION,
FOR
GRANDORA EXPLORATIONS LTD. (NPL)

1.00 SUMMARY

The SIG 1-31 mineral claims are situated on East Thurlow Island, 27 miles north of Campbell River or 125 miles northwest of Vancouver. The property was located to cover Gold-quartz veins explored during the period of 1927-1937 by several companies.

The area is underlain by Granodiorite - diorite and metasediments. Quartz veins, some carrying sulphides, cut all rock types. The gold bearing veins are only found in the granodiorite.

Two gold bearing veins were found; both having previous work carried out on them. These veins were examined and sampled where accessible. The values obtained from the sampling indicate sub-ore grade material. Old reports indicate grades of 0.3 oz/ton over widths of 3 to 7 feet. Bearing this in mind, ore grade material may be found below the level of the old working.

Geological mapping and geochemical soil sampling survey were completed over the entire property. These surveys indicate that

there is a possible extension of the main showing 200 feet south of the adit. A possible second vein structure 100 feet long may occur in the area east of the adit.

2.00 CONCLUSIONS

Arsenic soil geochemistry did not show any anomalous values. Copper soil geochemistry shows anomalous values in the area of the main workings. These anomalies indicate a vein extension of 200 feet south of the adit and the presence of a possible second vein structure 100 feet long, east of the main showings.

No ore grade mineralization was encountered in the channel or chip samples cut across the two known vein structures.

3.00 RECOMMENDATIONS

The results of geological mapping and geochemical survey completed on the property show that it is a low priority exploration target.

Further work to be conducted on the property should consist of diamond drilling of the following targets:

- 1) Testing the possible down dip and southward extension of the main vein; the first indicated by floor samples of the adit and the second by geochemistry;

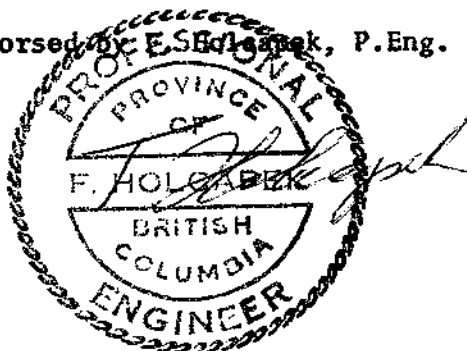
- 2) Check drilling or surface stripping of the indicated geochemical anomaly 100 ft. east of the base line.

Respectfully submitted,

John Deighton,
Geologist

Endorsed by E. Holcabeck, P.Eng.

July 10, 1974
Vancouver, B.C.



4.00 INTRODUCTION

The Sig group under option by Grandora Explorations Ltd. (NPL) consists of 31 recorded mineral claims located on the east side of East Thurlow Island, 27 miles north of Campbell River and approximately 125 miles northwest of Vancouver, British Columbia. The claims were recently staked to cover old known gold/silver occurrences previously explored mainly during the 1930's by Thurlow Gold Mines Ltd. These gold/silver quartz veins, occurring in granitic rocks, have been explored by both surface and underground workings.

A camp was established on the property on May 2, 1974, and a two-week period was spent in establishing a grid for control; soil sampling; geological mapping. Detailed soil sampling on a 50' x 50' grid was done over the main showings along the strike of the vein.

5.00 LOCATION AND ACCESS

The property detailed in this report is situated on the east side of East Thurlow Island, 5 miles by boat from Shoal Bay, 27 miles north of Campbell River and approximately 125 miles northwest of Vancouver. Co-ordinates of the property are 50° 25' N. Latitude and 125° 20' W. Longitude.

Access to the eastern edge of the property is either by boat or by air from Campbell River or directly by float-equipped aircraft from Vancouver. Old logging roads and trails traverse a portion of the claim group.

6.00 CLAIM STATUS

The group consists of the following 31 mineral claims recorded in the Vancouver Mining Division of B.C.: The Sig 1-20 claims were recorded on January 30, 1974; the Sig 21-26 claims on February 5, 1974. Sig 27, 28, 28, Fr, 31Fr claims were recorded on May 24, 1974.

7.00 PHYSIOGRAPHY

Topographic relief throughout the claim area is moderate with elevations varying from sea level to 1200 feet above sea level. Old logging operations have been conducted over approximately 1/4 of the claims area. The remainder of the property is heavily treed with logging operations currently in progress near the central portion of the group, west of Thurlow Point.

Rainfall is heavy; snow may be present for short periods during the winter months but in general should not hamper surface exploration. Temperatures are moderate throughout the year.

Water and timber for exploration purposes are plentiful within the claim group.

8.00 HISTORY

The property was originally staked as the DAWN group by A. Pritchard and development initiated in 1919. It was re-named the HOPE group in 1927 and Thurlow Gold Mines Ltd. was incorporated in 1928 to further explore and develop the property. Development was continued in 1931 by Pacific Copper Mines and in 1933 the property was optioned to Federal Gold Mines Ltd. From 1934 to 1936 the property was worked by individuals. No reports are available concerning work done after 1937.

9.00 GEOLOGY

Granodiorite-diorite underlies the areas of the two veins. It is generally poorly fractured except in the immediate areas of faulting or veining and dyking.

Highly contorted metasedimentary rocks lie to the east of the granodiorite. These sediments consist of andesitic tuffs, sandstones and mudstones. They may be highly metamorphosed and may resemble coarse grained diorites in places. The sandstones are well-bedded and may be cross-bedded in places.

The two main veins consist of white "Bull" quartz carrying streaks and blotches of pyrite. Chalcopyrite is present in places but in low quantities. The veins occupy shear zones or fissures and do not alter the granodiorite to any appreciable degree on either side of the vein.

Several small irregular quartz veins were seen in the metasediments. These veins are not important as they may be termed "sweat" veins and are common to many like metasedimentary sequences. Veins of this type do not have any consistency to width or length. No sulphide mineralization was seen associated with these veins.

Three chip samples were cut on surface of the main vein. One sample 4 feet in length from the hanging wall of the vein returned an assay of 0.03 oz/ton Au, 0.44 oz/ton Ag. Two samples were cut across the vein in the open cut above the stoped section. These samples returned values of 0.001 oz/ton Au, 0.11 oz/ton Ag and 0.08 oz/ton Au, 0.29 oz/ton Ag.

It must be noted that these samples were all taken at surface from weathered material. The values thus may be lower than what could reasonably be expected from fresh vein material. The samples cut from the main vein also came from mined out areas of the vein and thus may not have been ore grade when the mine was in production.

Assays from the floor of the adit, taken from old reports show considerably higher values in gold and silver. It may thus be inferred that the vein below the workings should contain higher grade material than that sampled.

Young Porphyry dykes cut the Granodiorite. These dykes can vary in width from several inches to several feet. They may strike in any direction but most seem to favour a northwesterly strike. Five dykes were seen to cut the granodiorite in the vicinity of the camp and strike towards the old workings. These dykes mark a zone of weakness in the granodiorite and the main vein also occurs within this zone.

Several samples were cut from the trenches exposing a second vein designated "Beach" vein. The highest value in gold and silver were 0.015 oz/ton Au, 0.23 oz/ton Ag. Sample locations and results are shown on the accompanying map.

10.00 GEOCHEMISTRY

A geochemical survey was conducted on the property, with soils, taken along a 400 x 200 grid or on a 400 x 50 foot grid in areas of known veins or possible extensions of known veins.

A total of 15 line miles were sampled. Of these, 13.00 line miles on a 400 x 200 ft. and 1.15 line miles on a 100 x 50 feet grid for a total of 620 samples. All samples were analyzed for copper and arsenic.

Samples were taken with mattocks and soil samples were collected from the B-horizon just below the organic layers.

Samples were packed into paper bags and shipped to Chemex Laboratories in North Vancouver for analysis.

11.00 ANALYSIS

A minus 80 mesh fraction was taken from each sample and digested for 2.5 hours in hot nitric acid. Quantitative analysis for part per million in Cu and As content was performed by atomic absorption methods.

12.00 RESULTS

Tabulation of the results show the following background, threshold and anomalous values for copper and arsenic.

Copper

Background	0-55 ppm
Threshold	51-100 ppm
Anomalous	Greater than 101 ppm

Arsenic

Background	0-5 ppm
Threshold	6-10 ppm
Anomalous	Greater than 10 ppm

The geochemical survey shows no anomalous value for arsenic. All arsenic values are in one family and in the background to threshold range.

Anomalous values for copper were found in the vicinity of the main showing. The geochemistry indicates that the vein structure has a possible extension 200 feet south from the adit (36 N 58E). A single high copper value (374 ppm) at 60 E 36 N is inconclusive as a second sample from the same locality returned a value of only 44 ppm, copper. A 100 foot anomaly at 30 N 61E to 31N 61-50 E shows the highest values in copper in the soil survey. This area may contain a vein that is similar in character to the known vein. This new vein would probably have a different strike, as shown by the soil survey.

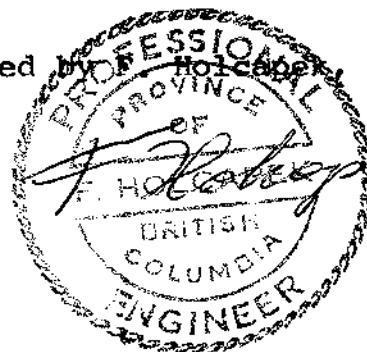
There were no other anomalous values found on the property.

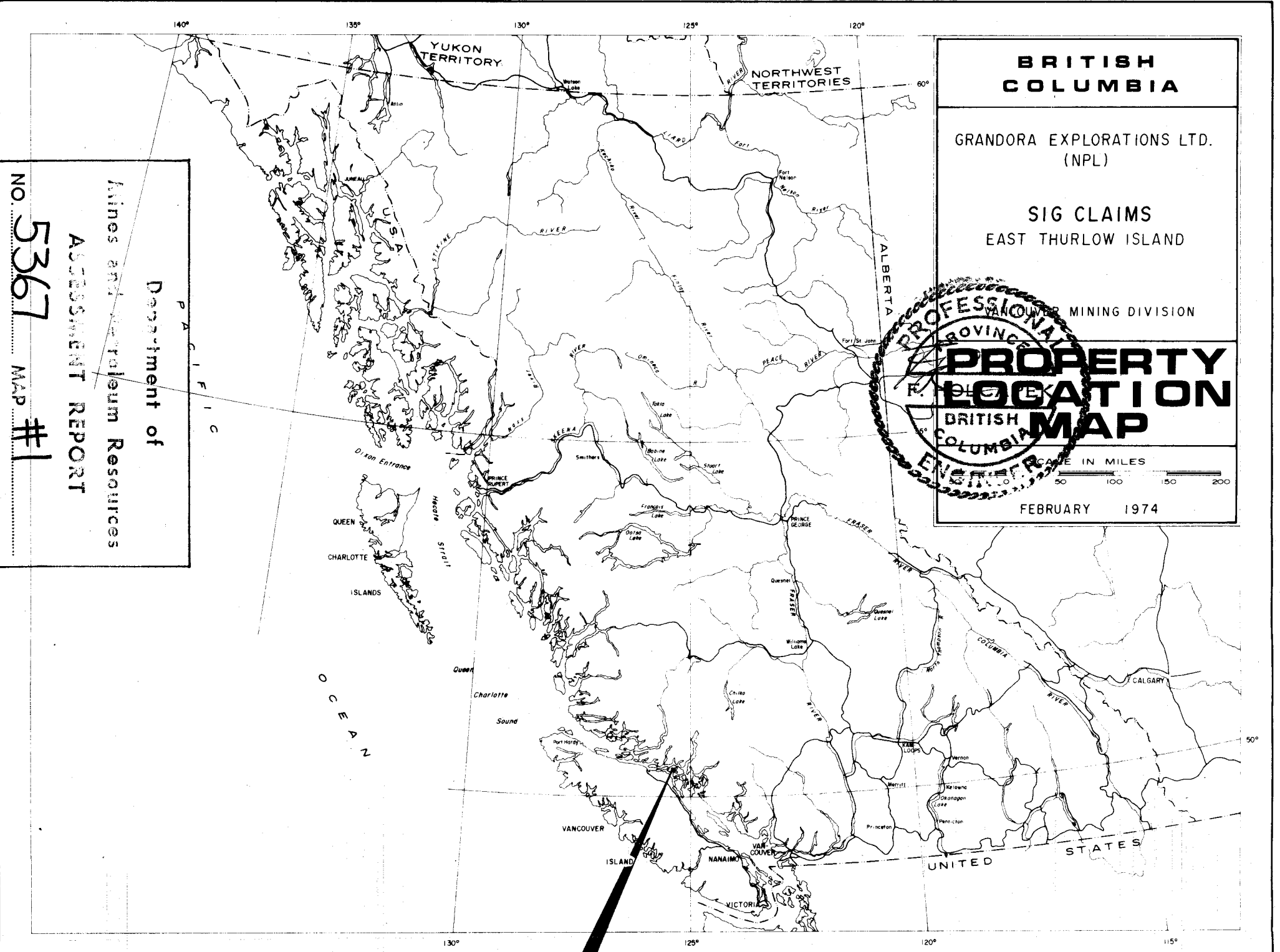
John Deighton,
Geologist

July 10, 1974

Vancouver, B.C.

endorsed by F. Holcapp, P.Eng.





BRITISH COLUMBIA

GRANDORA EXPLORATIONS LTD.
(NPL)

SIG CLAIMS
EAST THURLOW ISLAND

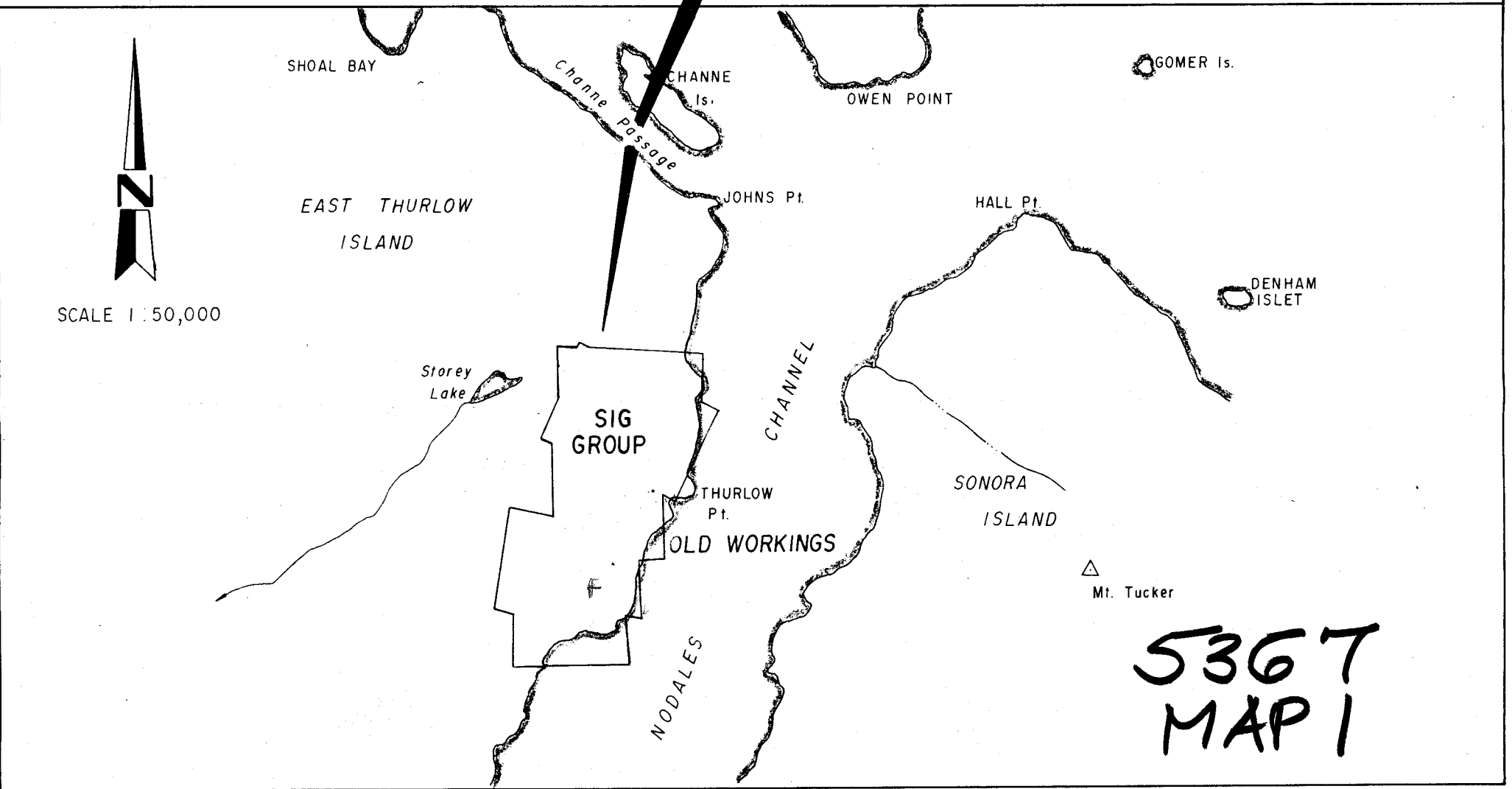
PROFESSIONAL MINING DIVISION

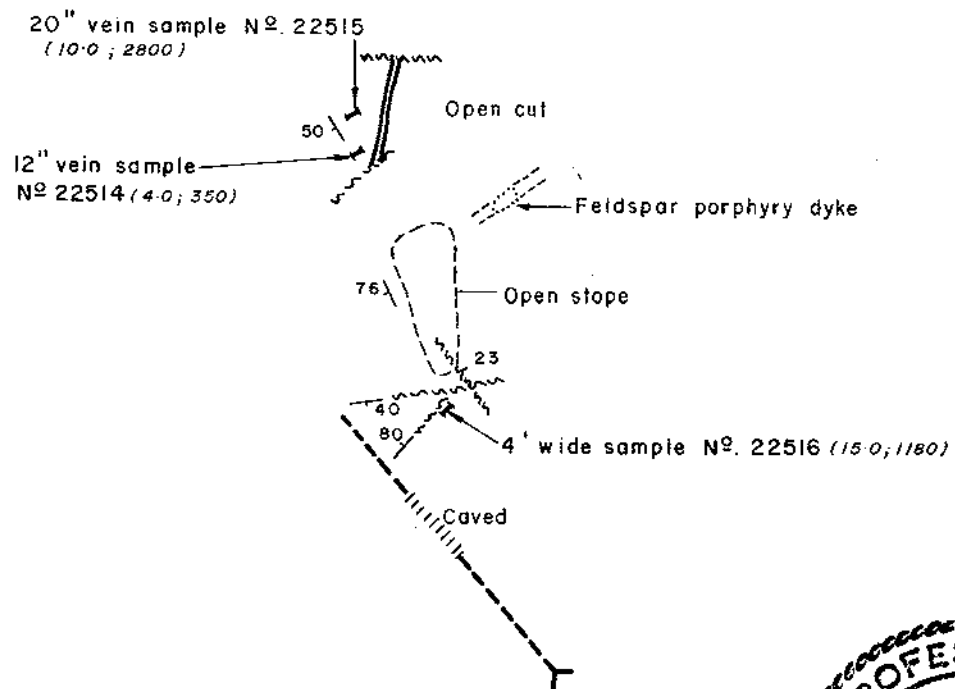
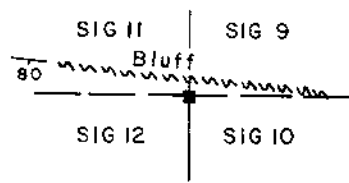
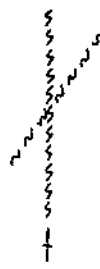
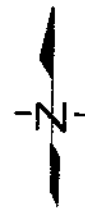
PROPERTY LOCATION MAP

SCALE IN MILES
0 50 100 150 200

FEBRUARY 1974

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SILVER (PPM) GOLD (PPB)
 (4.0; 350)

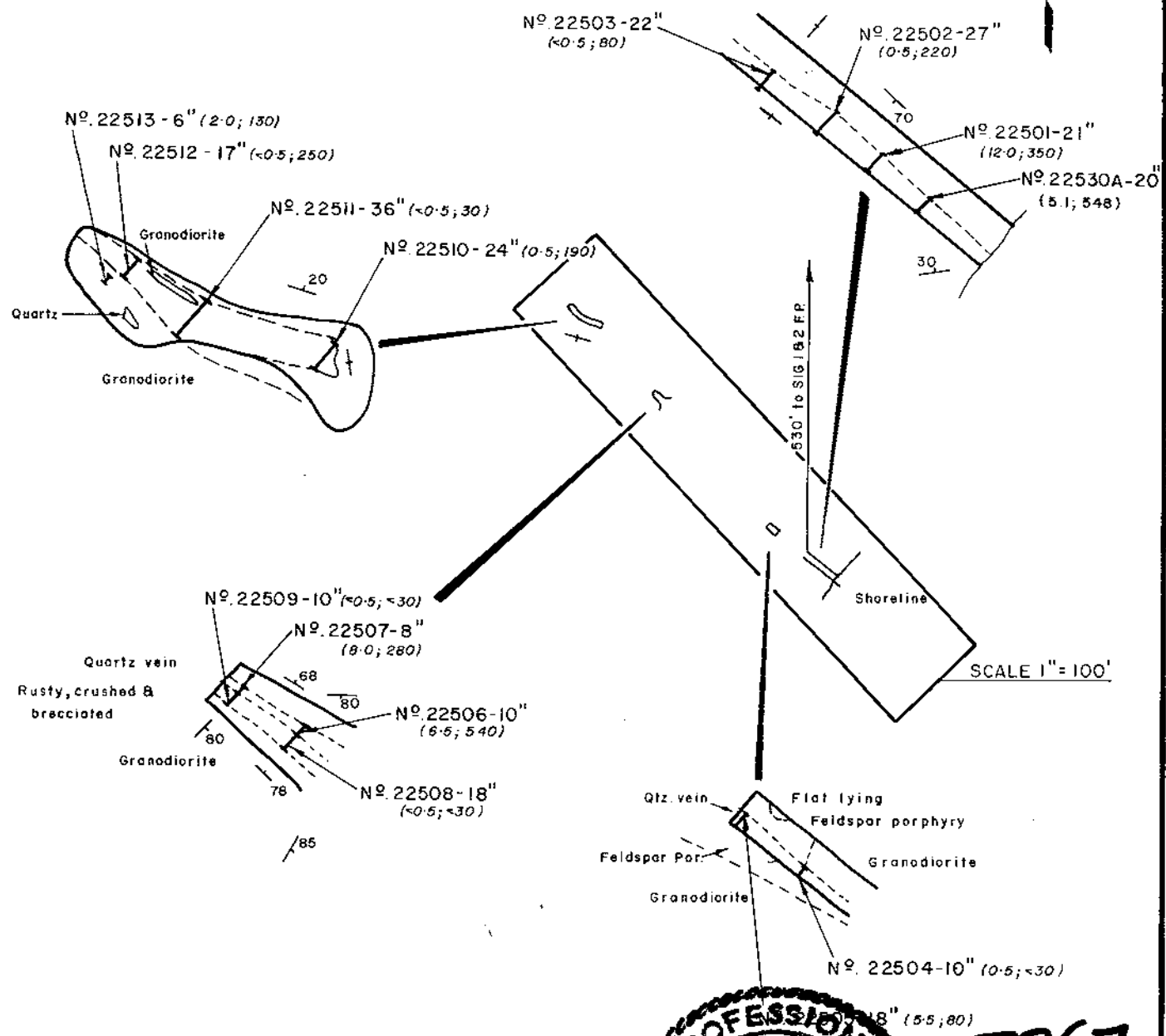
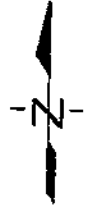


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MAP 2

BRITISH
 GRAND COPPER EXPLORATIONS LTD. (NPL)
 SIG. ENGINEER THURLOW ISLAND
 VANCOUVER MINING DIVISION, B.C.

OLD WORKINGS

SCALE 1" = 50 FEET
 AGILIS ENGINEERING LTD. MAY, 1974



SILVER (PPM) GOLD (PPB)
 (80, 280)



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MAP 3

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GRANDORA EXPLORATIONS LTD (NPL)
 SIG. ENGINEER
 PHURLOW ISLAND
 VANCOUVER, BRITISH COLUMBIA, B.C.

BEACH TRENCHES
 SCALE 1" = 50 Ft.
 AGILIS ENGINEERING LTD. MAY, 1974

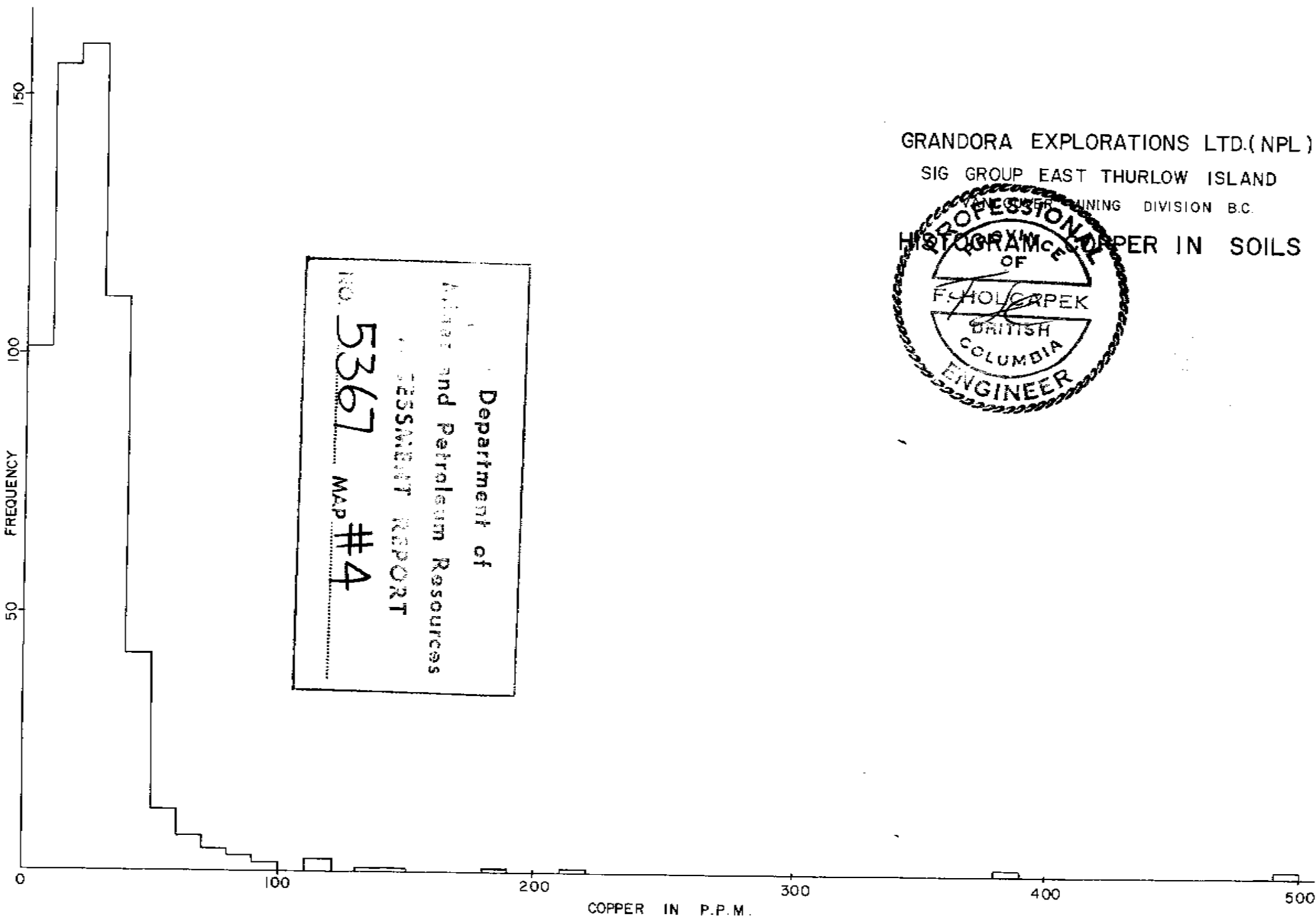
GRANDORA EXPLORATIONS LTD.(NPL)

SIG GROUP EAST THURLOW ISLAND

MINING DIVISION B.C.

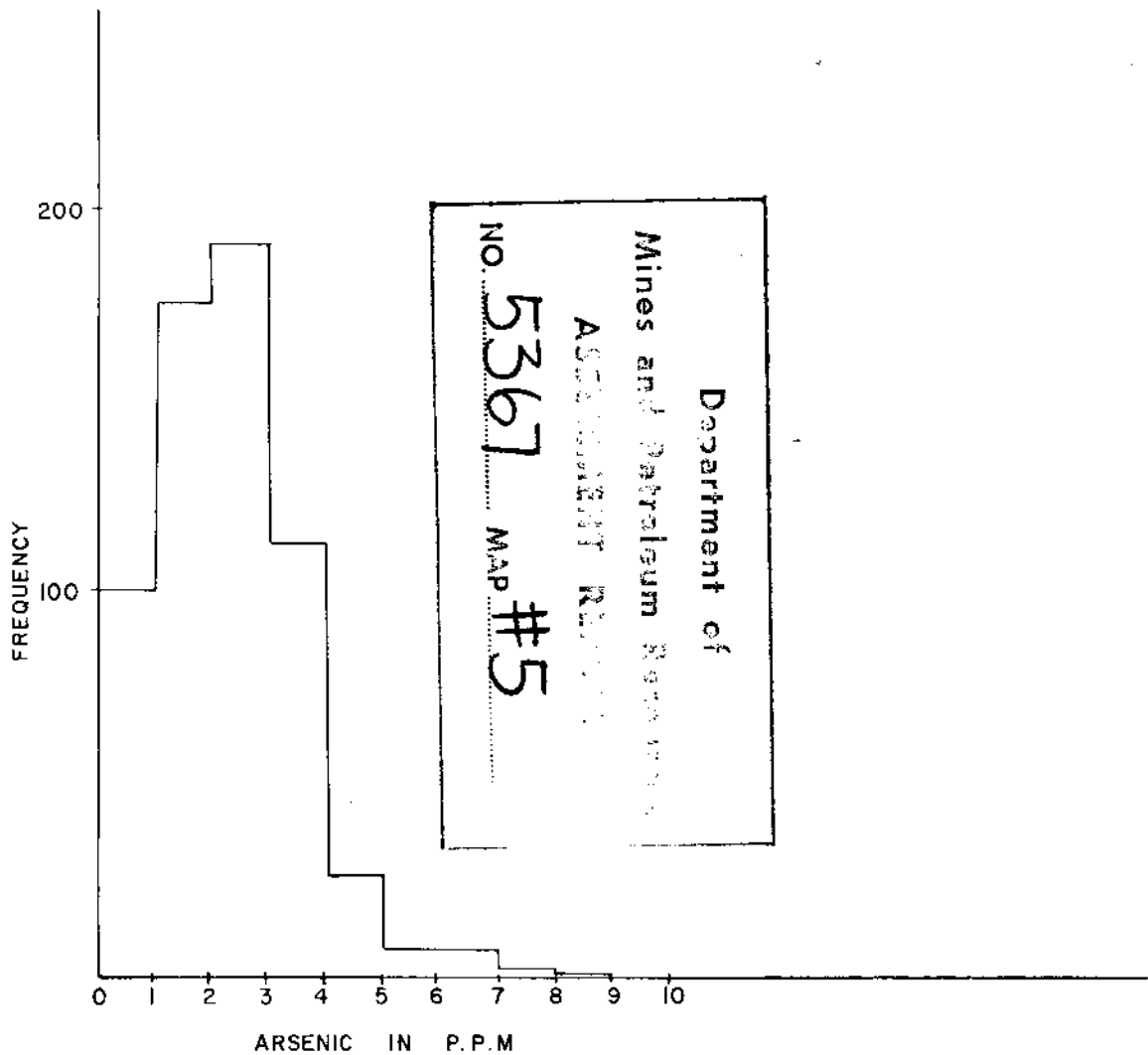


HISTOGRAM OF COPPER IN SOILS



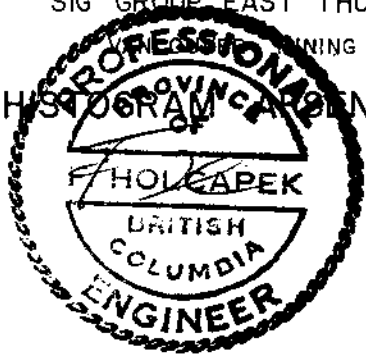
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COPPER IN P.P.M.



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GRANDORA EXPLORATIONS LTD.(NPL)
 SIG GROUP EAST THURLOW ISLAND
 MINING DIVISION B.C.
 HISTOGRAM OF ARSENIC IN SOILS





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GRANDORA EXPLORATIONS
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SIG CLAIMS EAST THURLOW IS.
VANCOUVER DIVISION, B.C.

5367
CLAIM MAP
MAP 6

SCALE IN FEET
400 0 400 800 1200
AGILIS ENGINEERING LTD. MAY 1974

28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E

100N
96N
92N
88N
84N
80N
76N
72N
68N
64N
60N
56N
52N
44N
48N
40N
36N
32N
28N
20N
24N
16N
18N
16T
12N

BASE LINE



28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E



- LEGEND
- B Granodiorite - Diorite
 - A Metasediments
 - Outcrop
 - Fault
 - Contact
 - /40 Dip
 - Claim post & claim line

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NO. 5367 M.P. #7

PROFESSIONAL ENGINEER
GRANDORA EXPLORATIONS LTD. (NPL)
 518 CLYDE STREET, VANCOUVER, B.C.
 V6C 1A7
 5367
GEOLOGY MAP MAP 7

SCALE IN FEET
 400 0 400 800 1200
 AGILIS ENGINEERING LTD. MAY 1974

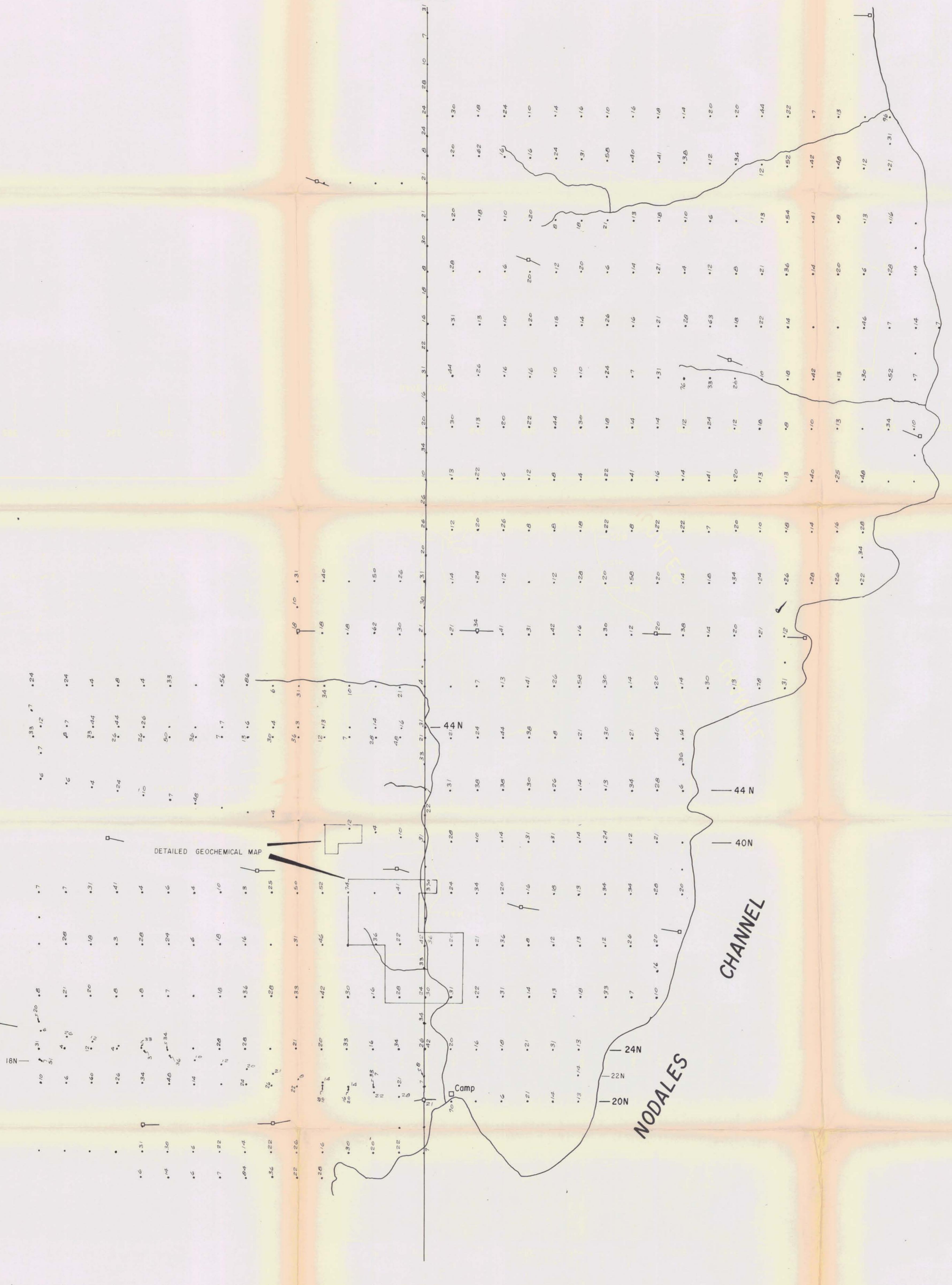
28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E

BASE LINE

100N
96N
92N
88N
84N
80N
76N
72N
68N
64N
60N
56N
52N
44N
48N
40N
36N
32N
28N
24N
16N
16T
12N



28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E



DETAILED GEOCHEMICAL MAP

CHANNEL

NODALES

Camp

5367
MAP 8

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NO. 5367 MAP #8

PROFESSIONAL
OF
GRANDORA EXPLORATIONS
F. HOLCAPEL LTD. (NPL)
SIC CLAIMS EAST THURLOW IS.
VANCOUVER MINING DIVISION, B.C.

GEOCHEMICAL
SURVEY
COPPER PPM.

SCALE IN FEET
400 0 400 800 1200
AGILIS ENGINEERING LTD. MAY 1974

28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E

BASE LINE

100N
96N
92N
88N
84N
80N
76N
72N
68N
64N
60N
56N
52N
44N
48N
40N
36N
32N
28N
20W
24N
16N
16T
12N

28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E 96E 100E



5367
MAP 9

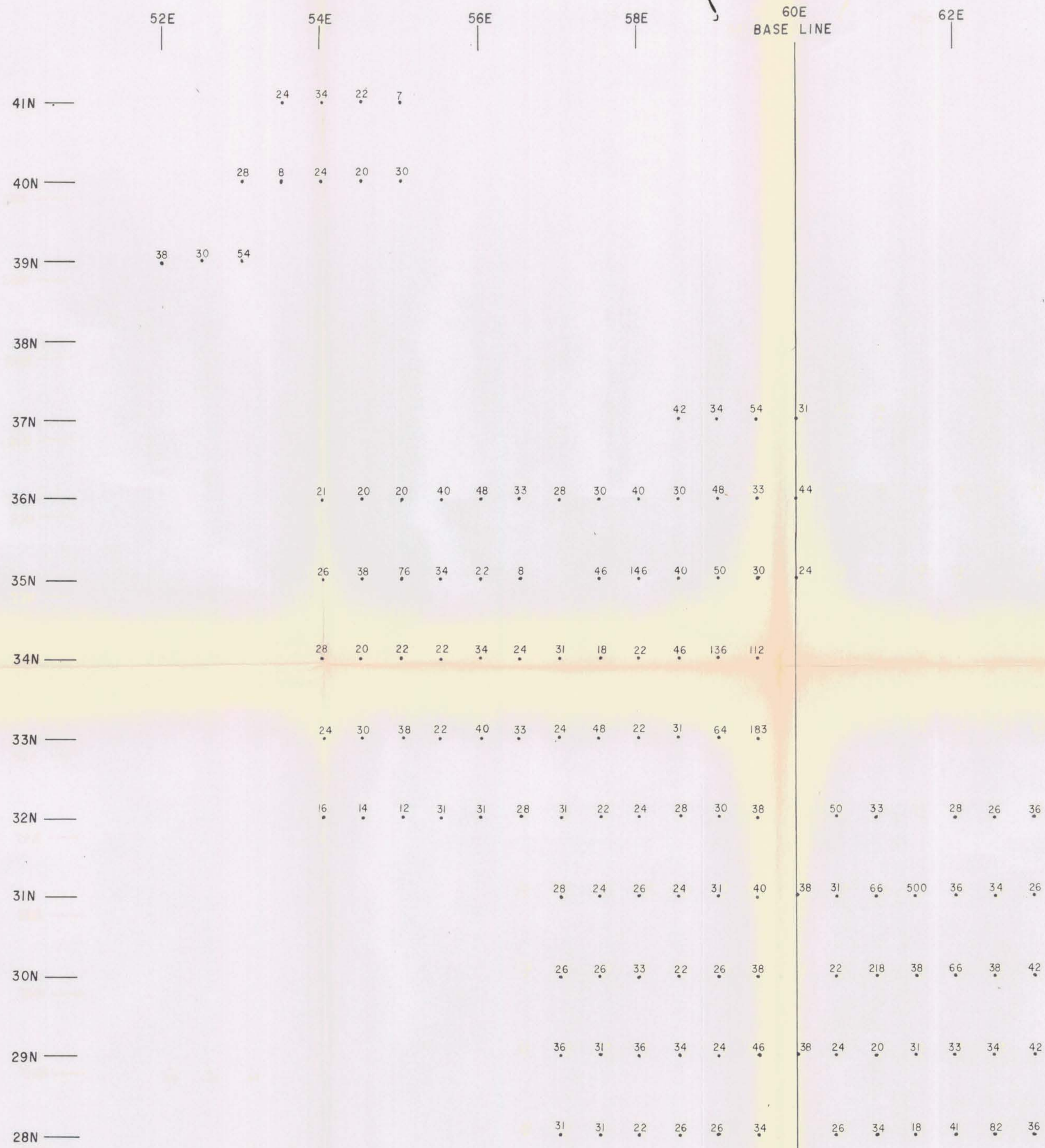
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GRANDORA EXPLORATIONS
CO. LTD. (NPL)
SIG CLAIMS - EAST THURLOW IS.
VANCOUVER MINING DIVISION, B.C.

**GEOCHEMICAL
SURVEY**
ARSENIC PPM.

SCALE IN FEET
400 0 400 800 1200
AGILIS ENGINEERING LTD. MAY 1974



5367
MAP 10

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NO. 5367 MAP #10

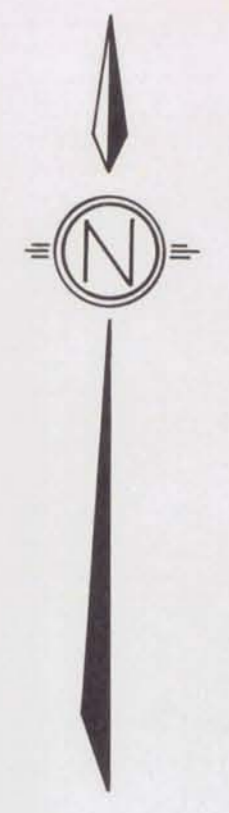
GRANDORA EXPLORATIONS
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SIG CLAIMS EAST THURLOW IS.
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DETAILED GEOCHEMICAL
SURVEY
COPPER PPM.

SCALE IN FEET
100 0 100 200 300

AGILIS ENGINEERING LTD. MAY 1974

	52E	54E	56E	58E	60E BASE LINE	62E
41N		2	1	1		
40N		2	2	3	2	2
39N	1	4	5			
38N						
37N					3	2
36N		2	3	2	4	5
35N		7	3	2	3	3
34N		2	2	2	1	2
33N		2	2	1	1	5
32N		<1	1	<1	1	2
31N					3	4
30N					2	4
29N					3	4
28N					3	2



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MAP #11

GRANDORA EXPLORATIONS
LTD. (NRL)
SIG CLAIMS EAST OF THURLOW IS.
VANCOUVER MINING DIVISION, B.C.

DETAILED GEOCHEMICAL
SURVEY
ARSENIC PPM.

SCALE IN FEET
100 0 100 200 300

AGILIS ENGINEERING LTD. MAY 1974