

4337

GEOCHEMICAL AND GEOLOGICAL

REPORT

ON THE

D.D. CLAIMS

SIMILKAMEEN MINING DIVISION

for

LAURA MINES LTD.

by

John R. Poloni, B.Sc., P.Eng.

April 10, 1973

92 H / 10 E

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 4337 MAP
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- #1 Claim location map
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- #3 " " " " " " 2
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INTRODUCTION

During the period June 25-30, 1972, the author conducted detailed follow up geochemical and geological surveys on the most promising conductors obtained in the 1971 geochemical survey.

The survey covered claims D.D. 55, 56, 69, 70, 71, 72, 73, 74 and 75.

Geochemical analysis for copper were run on 96 soil samples taken of B-horizon material along chained grid lines 200 feet apart. The sample spacing was 200 feet.

LOCATION MAP

Fig. #1



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 NO. **4337** MAP # **1**

120° 36'

49° 42'

100	98	96	94	37	39	41	43	45	47	49
99	97	95	93	38	40	42	44	46	48	50
				51	53	55	57	59	61	63
				52	54	56	58	60	62	64
					65	67	69	71	73	75
					66	68	70	72	74	76

DD CLAIMS →

BORGESON LAKE

HWY. No. 5

LAURA MINES LTD.

CLAIM LOCATION MAP

John R. Poloni

SIMILKAMEEN M.D.

JOHN R. POLONI - B. Sc., P. Eng.

SCALE: 1" = 3000'

APRIL 26, 1971

FIG. 1

PROPERTY

The property originally consisted of 48 mineral claims called D.D. (37-76) and D.D. (93-100) located approximately 15 miles north of Princeton B.C. near Allison Lake. Seventeen of these claims were dropped after preliminary surveys conducted in 1971.

Assessment work was done on only 9 claims during 1972. The following claims have had assessment work applied for 1972.

<u>Name</u>	<u>Record No.</u>	<u>Expiry Date</u>
D.D. 55, 56	31316-17	March 8, 1973
D.D. 69-75	31330-36	March 8, 1973

LOCATION

The claims are located 15 miles north of Princeton B.C. near the south end of Allison Lake. Access is via logging road branching from highway #5, to the west, just north of Borgeson Lake.

For such data as pertinent to topography, vegetation, climate and history the reader is referred to assessment report by the author dated October 18, 1971.

GEOLOGY

Memoir 243, G.S.C. by H.M.A. Rice, 1946 describes coarse grained, redish, altered siliceous granite and granodiorite of Jurassic age, contacting Nicola Group Volcanic and sedimentary rocks, as occurring in the area of the D.D. claims.

Geological reconnaissance was undertaken over three detailed grids. These are: lines 4+00N to 4+00S from station 20+00E to 28+00E, lines 14+00S to 24+00S from station 69+00E to 76+00E, and lines 36+00S to 42+00S from station 57+00E to 76+00E.

Generally, coarse grained granitic rocks were encountered. Dark green sedimentary and volcanic units were observed near line 42+00S. Overburden cover was fairly extensive for the grids centered on lines 0+00, and 18+00S.

GEOCHEMICAL SOIL SURVEY

During 1971 a geochemical survey was undertaken using a sample spacing of 400 feet along lines 1000 feet apart. This was a general reconnaissance program designed to cover all of the D.D. claims.

The 1972 program was a follow-up program designed to examine in detail the geochemically anomalous zone of

interest found in 1971. Three line miles of survey were undertaken. B-horizon material consisting of light to dark brown coloured sandy clay was taken for analysis using the following parameters:

-80 mesh material

Analytical Method - Atomic Absorption

Digestion Method - $\text{HClO}_4 + \text{HNO}_3$

A copy of the analytical results is included.

Examination of the analytical data for copper utilizing the 1971 and 1972 survey data gives:

Mean (X) = 23 p.p.m.

Threshold >45 p.p.m.

Possible Anomalous >70 p.p.m.

Probably Anomalous >95 p.p.m.

DISCUSSION OF GEOCHEMICAL RESULTS

Grid #1

The results of the survey over Grid #1 indicated only low results for copper except at Sta. 24+00E on line 0+00 where 74 p.p.m. was obtained. This one station anomaly is considered to be possibly anomalous but should be considered as of a low priority nature with respect to follow up surveys.

Grid #2

A one station anomaly of 192 p.p.m. in copper exists at Sta. 70+00E on line 20+00S. This is probably anomalous and should be examined in detail subject to the results of the Grid #3 follow up.

Grid #3

Several strongly anomalous areas exist on grid #3. These also extend beyond the margins of the grid necessitating further work. Fig. #3.

RECOMMENDATIONS

Further detail work including trenching, and geophysical surveys are warranted on Grid #3 to assess the cause of the geochemical anomalies. Geological examination indicates that the anomalies overlie in part, Intrusive and/or sedimentary and volcanic rocks. Magnetite was observed in association with minor chalcopyrite on Grid #3 line 42+00S which will be an asset for subsequent surveys.

APPENDIX A

Writer's Certificate

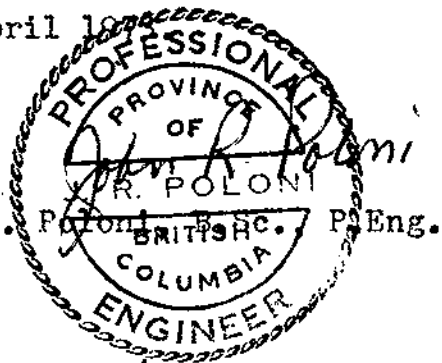
CERTIFICATE

I, John R. Poloni, of 5502 - 8B Avenue, in Delta, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.
2. I am a graduate of McGill University of Montreal, Quebec, where I obtained a B.Sc. degree in Geology in 1964.
3. I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession since 1964.
5. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
6. I have personally conducted the work programs reported on in this report.
7. I have no direct or indirect interest in any of the properties or securities of Laura Mines Ltd., nor do I expect to receive any.

Dated this 10th Day of April 1964

John R. Poloni, P. Eng.



APPENDIX B

Geochemical Assay Data

APPENDIX C

References

REFERENCES

1. RICE, H.M.A. (1946) G.S.C. Memoir 243.
Geology and Mineral Deposits of the Princeton Map Area, British Columbia.
2. JURY, R.G.
Two reports for Blue Gulch Explorations Ltd. March 2, 1971 and December 12, 1969.
3. POLONI, J.R. (April 25, 1971)
Report on the D.D. Group of Claims for Laura Mines Ltd. (N.P.L.)
4. POLONI, J.R. (October 10, 1971.)
Report on the Preliminary Geochemical Program conducted on the D.D. Group of Claims.

APPENDIX D

Maps	Fig. #1	Grid No. 1
	Fig. #2	Grid No. 2
	Fig. #3	Grid No. 3



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NO. 4337 MAP #2

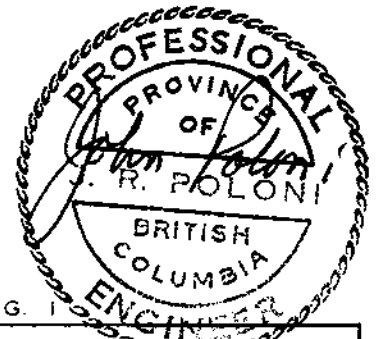
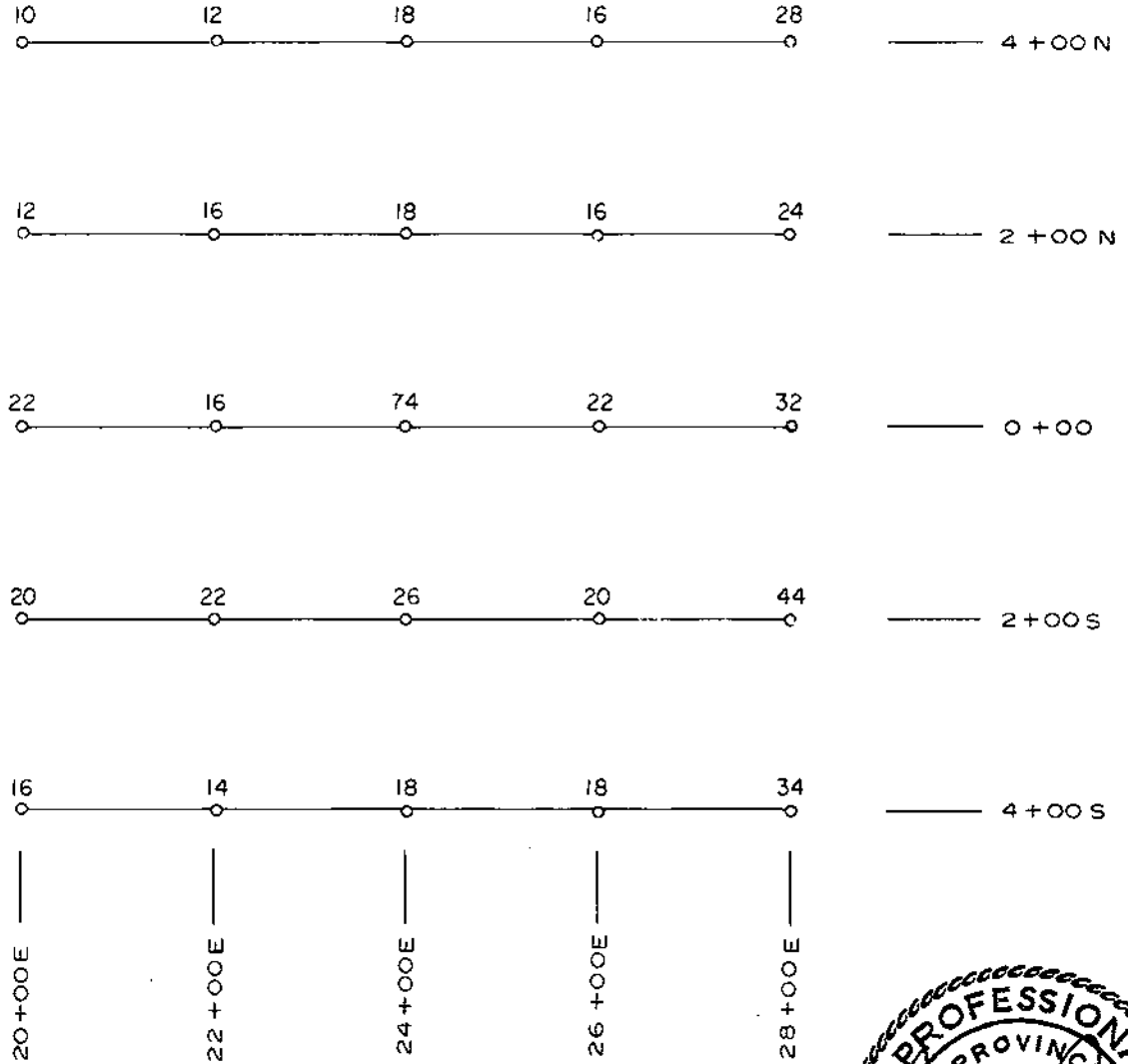


FIG. 1

LEGEND

○ ——— ○ LINE - STATION

LAURA MINES LTD. (N.P.L.)

GRID No. 1
SOIL GEOCHEMISTRY
COPPER P.P.M.

JOHN R. POLONI B.Sc., P. Eng.

SCALE 1" = 200'

DATE: April 10, 1973

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NO. **4337** MAP **#3**

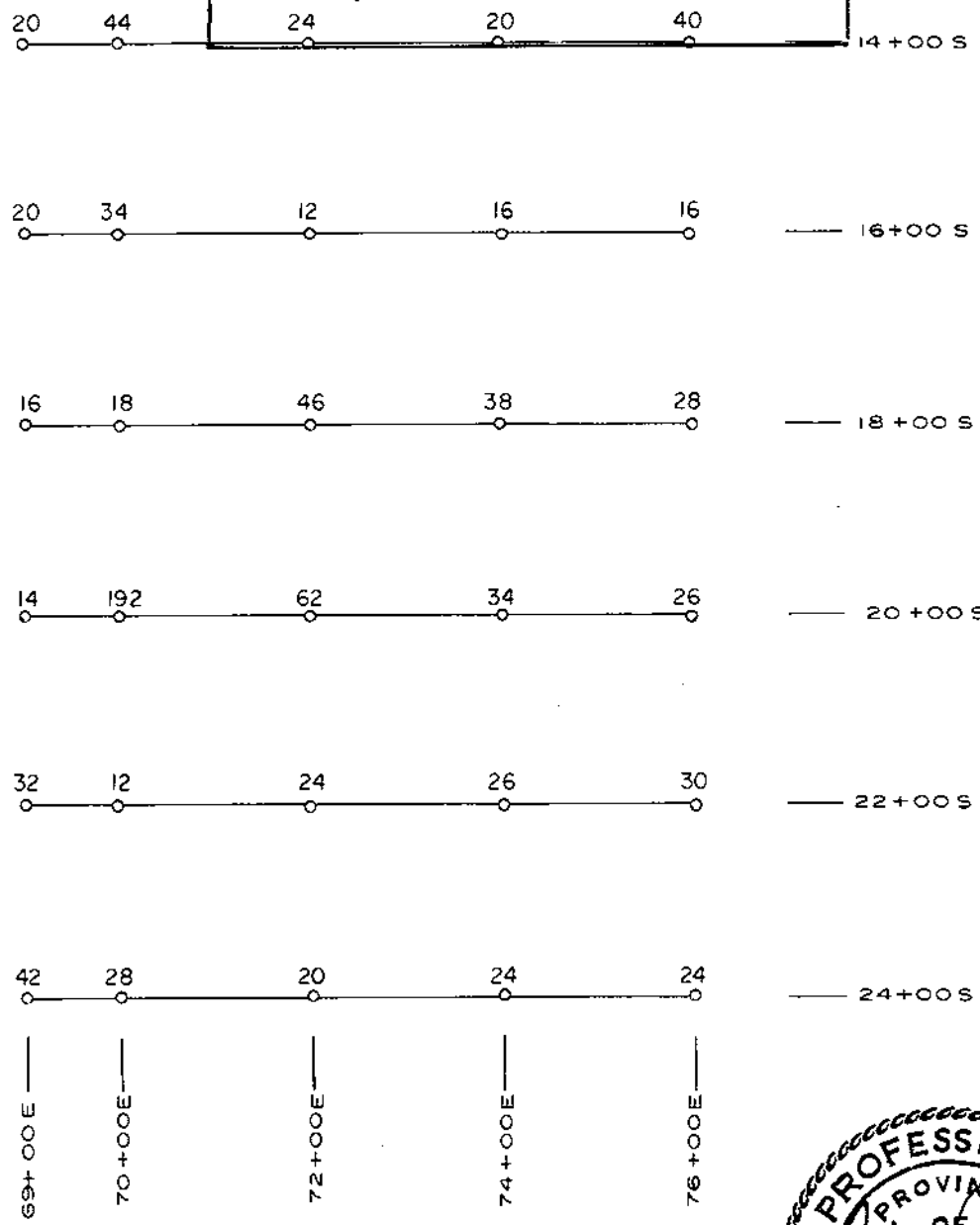


FIG. 2

LEGEND

○ ——— ○ LINE — STATION

LARUA MINES LTD. (IN P.L.C.)

GRID No. 2
SOIL GEOCHEMISTRY
COPPER P.P.M.

JOHN R. POLONI B.Sc., P. Eng.

SCALE 1" = 200' DATE April 10, 1973

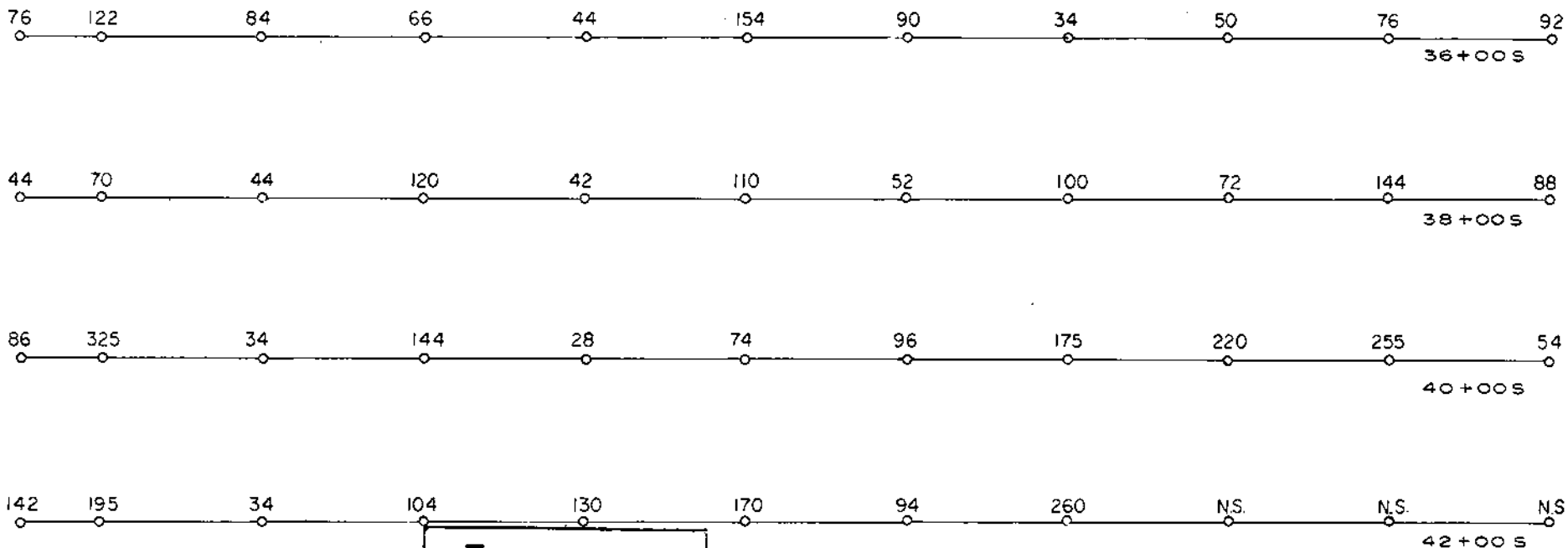


FIG. 3

LAURA MINES LTD (N.P.L.)

GRID No. 3
SOIL GEOCHEMISTRY
COPPER PPM.

JOHN R POLONI B.Sc., P. Eng

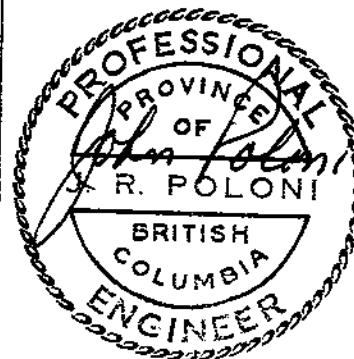
SCALE 1" = 200'

DATE: April 10, 1973

LEGEND

○ — LINE — STATION
N.S. — NO SAMPLE

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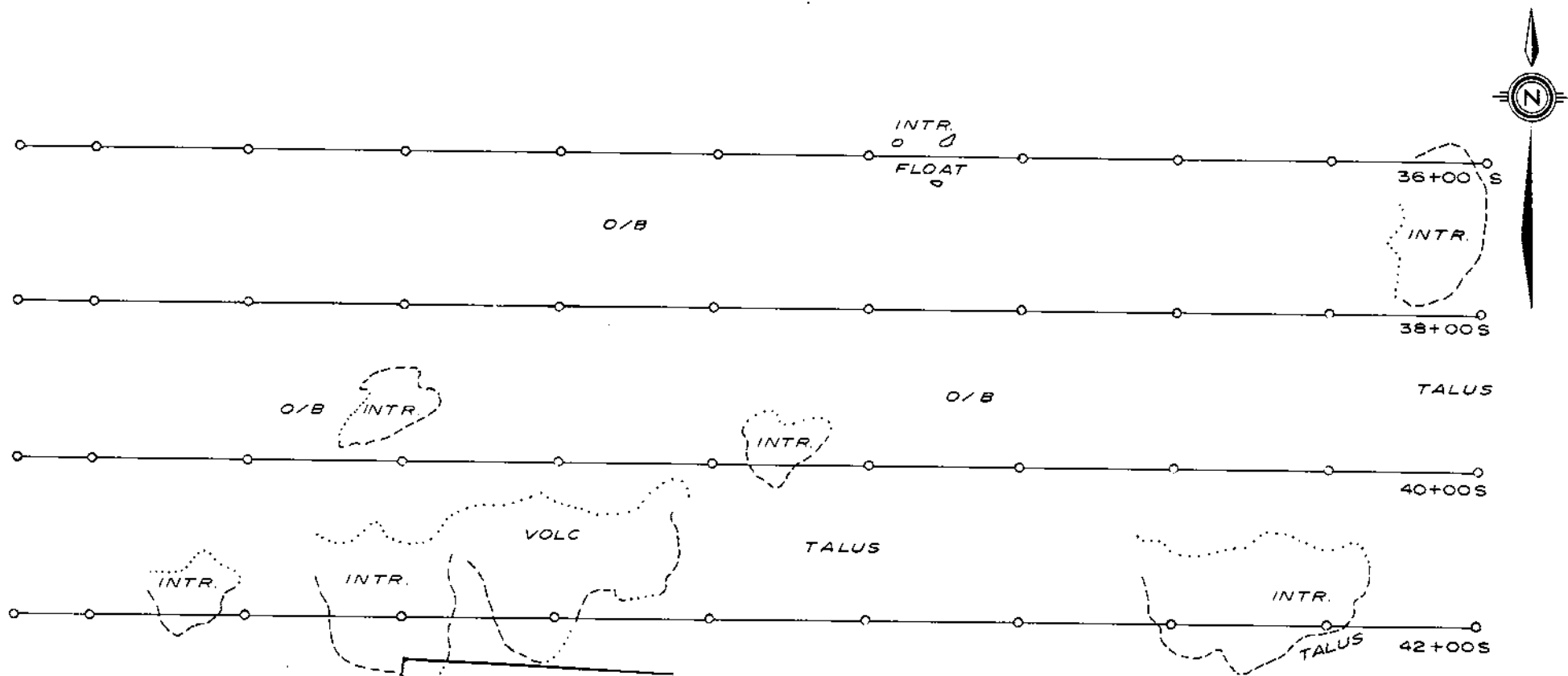
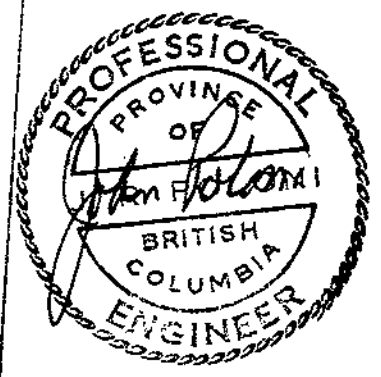


FIG. 4

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LAURA MINES LTD. (N.P.L.)	
GRID No. 3 GEOLOGY RECONNAISSANCE	
JOHN R. POLONI B. Sc., P. Eng.	
SCALE: 1" = 200'	DATE: April 10, 1973