

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3494 MAP

3494

REPORT ON THE PRELIMINARY GEOCHEMICAL PROGRAM

CONDUCTED ON

THE D.D. GROUP OF CLAIMS

ALLISON LAKE AREA

SIMILKAMEEN MINING DIVISION

BRITISH COLUMBIA

92 H / 10 E

for

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

by

JOHN R. POLONI, B.SC. P.ENG.

OCTOBER 18, 1971

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INTRODUCTION

During August 1971, the author conducted a preliminary Geochemical Reconnaissance on the Laura group of mineral claims near Allison Lake, British Columbia. This survey covered the 48 claims named D.D. (37-76) and D.D. (93-100) located approximately 15 miles north of Princeton, and to the west of Highway #5.

Geochemical analysis for copper and molybdenum were run on 246 soil samples taken at 400 foot spacing along east-west chained and flagged control lines, run from a north-south base line. The grid lines were spaced at 1000 foot intervals.

This Geochemical Soil Survey implements the exploration program recommended by the author in a report dated April 25, 1971.

LOCATION MAP

FIG. #1



120° 36'

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3494** MAP # **1**

MERRITT

49° 42'

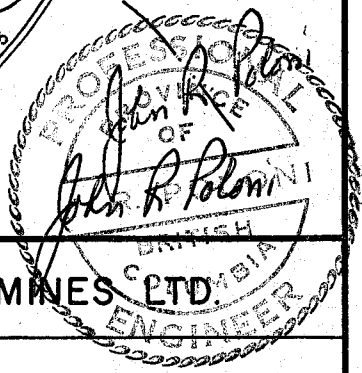
ALLISON LAKE

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

SIMILKAMEEN M.D.

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

SCALE: 1" = 3000'

APRIL 26, 1971

FIG. 1

PROPERTY

Located at Latitude $49^{\circ}42'N$ and Longitude $120^{\circ}37'W$, the property consists of 48 mineral claims. Record dates for the D.D. (37-76) claims, and D.D. (93-100) claims are March 8, 1971.

The claim posts for D.D. 57, 58, 55, 56, 75, and 76 were examined and the claims are staked in accordance with the requirements of the British Columbia Mineral Act.

LOCATION AND ACCESS

The claims are located 15 miles north of Princeton, B.C., near the south half of Allison Lake and west of Highway #5. A logging road, branching from Highway #5 north of Borgeson Lake, provides excellent access. This road is easily passable by two wheel drive vehicles during summer months.

Hydro-electric power, railway facilities, and natural gas are readily available in the area. A new natural gas line passes within 3 miles, to the east of the claims.

TOPOGRAPHY

The continental ice sheet covered the entire Princeton map area during Pleistocene time, resulting in a general modification of the topography.

A mantle of glacial detritus from 2 to 6 feet deep blankets the area of the claims.

Elevation differences range from approximately 3000 feet above mean sea level at Allison Lake to slightly over 4600 feet on claim D.D.#58.

One main southerly flowing stream called Borgeson Creek provides the principal drainage of the area. Most stream channels were dry during the period of the survey, and would have water flow only during spring run off, and periods of heavy precipitation.

Several regions of marsh or swamp are indicated on the topographic map prepared by Allwest Forestry and Resources Services Ltd., but except for definite areas such as north of D.D. #96 and #98, these are represented by grassland.

VEGETATION

Pine and alder are generously distributed over the claims. The drainage channels are occupied by alder, as moderately dense underbrush. North facing slopes are generally more liberally wooded with alder than pine.

Pine, the most abundant tree occurring on the claims, is small and would appear to have little commercial value.

CLIMATE

The claim area lies within the Interior Plateau of central British Columbia, which is characterized by little precipitation, moderate winters and long arid summers. Snowfall covers the ground to a depth of 2-3 feet for only a few winter months.

Sufficient precipitation occurs annually to provide both John Burns and Borgeson Creeks with moderate water flow even through the dry summer months.

HISTORY

No previous exploration of significance appears to have been undertaken on the claims. Evidence indicating that a geochemical stream silt survey was recently done on John Burns Creek, to the north, and Borgeson Creek, was found during the geochemical soils reconnaissance.

Blue Gulch Explorations Ltd., have examined by geochemistry, trenching and diamond drilling, low grade copper-pyrite mineralization, immediately east of the D.D. group of claims.

No production is recorded from the property.

GEOLOGY

Memoir 243 G.S.C. by H.M.A. Rice, 1946 describes coarse-grained, reddish, altered, siliceous

granite and granodiorite of the Jurassic Coast Intrusions, contacting Triassic Nicola Group volcanic and sedimentary rocks, as occurring to the west and south of Allison Lake. The D.D. group of mineral claims is underlain by these units.

The Nicola Group is a heterogeneous one consisting of a considerable thickness of successions of lavas interbedded irregularly with lenses of tuffaceous and argillaceous rocks and infrequent beds of limestone. Commonly the volcanic is massive andesite porphyry, blue grey to dark green in colour, with a matrix of sodic plagioclase, chlorite, epidote, actinolite, pyroxene and magnetite. Phenocrysts of pyroxene or plagioclase are present. Magnetite, pyrite and occasionally specks of chalcopyrite are common.

Jurassic intrusive rocks in the Allison Lake area, generally consist of the normal phase of the red granodiorite ranging in composition from quartz diorite to granite. Potash feldspar and quartz contents are high. Amphibole, magnetite, apatite, titanite and zircon are common accessory minerals. The Allison Lake intrusive body is extremely altered near the regional fault zone immediately east of Allison Lake.

No geological mapping was undertaken by the author, as part of this initial phase of geochemical reconnaissance. Detailed mapping will be done as outlined in the recommendations of this report.

STRUCTURE

A regional fault zone consisting of an en échelon arrangement of closely related faults occurs east of Allison Lake. A similar zone appears to cross claims D.D. #97 and #98 in a northerly direction. Rocks along these faults are leached, crushed and silicified. Where exposed in a road cut near the south end of Allison Lake, the major structure appears to be over 100 feet wide.

GEOCHEMICAL SOILS PROGRAM

A north-south base line 9000 feet long was chained, blazed and flagged across the D.D. group of claims. Two hundred and forty-six soil samples were taken at stations spaced 400 feet apart along east-west chained and flagged control lines. Grid lines spaced at 1000 foot intervals were run to cover all of the claims. Eighteen line miles of survey were completed.

B-horizon material, consisting of light to dark brown coloured sandy clay was taken for geochemical analysis for molybdenum and copper. Analysis was done on 80 mesh material using:

Analytical Method - Atomic Absorption
+ Colorimetric

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

A copy for analytical results is included in Appendix B.

RESULTS OF THE GEOCHEMICAL PROGRAM

Examination of the analytical data for copper gives:-

Mean (\bar{x})	=	23 p.p.m.
Threshold	>	45 p.p.m.
Possibly Anomalous	>	70 p.p.m.
Probably Anomalous	>	95 p.p.m.

The plotting of the analytical results in p.p.m. copper, and contouring using the calculated parameters, indicates several anomalous areas which are definite targets for follow up detailed exploration.

The zones in decreasing degree of priority are as follows:-

ZONE A - Six anomalous values centred on line 40+OOS at 60+OOE, 68+OOE, 72+OOE and 76+OOE; on line 20+OOS at 72+OOE and 76+OOE. This anomalous area is open to the south and east.

ZONE B - A one station anomaly with a value of 248 p.p.m. copper situated on line 0+00 at 24+OOE.

ZONE C - Two separate one station anomalies of 80 and 99 p.p.m. copper situated on line 30+OOS at 24+OOE and 36+OOE.

Four other zones are shown to be above threshold in p.p.m. copper. Further work on these will be dependent on the findings of the detailed examinations of the higher priority areas.

SUMMARY AND CONCLUSIONS

The D.D. (37-76) and D.D. (93-100) group of mineral claims is located fifteen miles north of Princeton, B. C., near the southerly end of Allison Lake.

This area is underlain with Triassic Nicola volcanic and sedimentary rocks in contact with Jurassic Coast Intrusive granodiorites.

Regional shearing with a general northerly strike, in the form of en échelon faults, borders the claims to the west and east.

Geochemical soil reconnaissance indicates several anomalous zones for copper in the southerly half of the claim group. Three of these are felt to warrant detailed follow up work.

The detailed examination should include a closely spaced geochemical soil program, geological mapping and trenching. A geophysical examination will be included as a later stage of exploration.

Regional geological mapping shows Nicola group volcanic and sedimentary rocks in contact with Coast Intrusive granodiorites in the area of the strongest geochemical anomalies. Copper mineralization is known to occur disseminated with pyrite in monzonite,

near contacts with Nicola group volcanics on the Blue Gulch ground immediately east of Allison Lake.

In the writer's opinion, the results of the programs conducted to date are sufficiently encouraging to warrant detailed follow up on the top priority zones.

RECOMMENDATION

Work programs to date have completed the initial three recommendations made by the author in a report dated April 25, 1971. These included phototopographical base map preparation, and geochemical reconnaissance sampling.

Line cutting and detailed geochemical, geological and geophysical examination of the anomalous areas is recommended to continue the systematic evaluation of the claims.

Trenching and sampling of mineralization encountered in the recommended surveys will follow.

Phase II drilling is contingent on the results of the previous surveys.

APPENDIX A

ESTIMATED COST OF THE
CONTINUED RECOMMENDED
PROGRAM

ESTIMATED COST OF THE
CONTINUED RECOMMENDED
PROGRAM

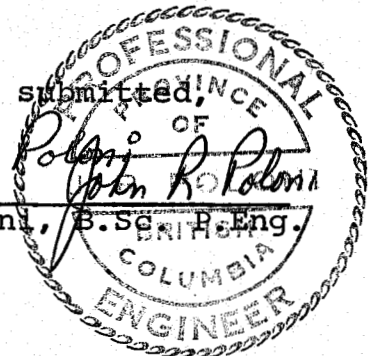
PHASE I

Line Cutting and Picketing 9 line miles @ \$125.00/line mile	\$1125.00
Detailed Geochemical Survey 9 line miles @ \$100.00	900.00
Geological Mapping & Prospecting 1 month @ \$1500.00	1500.00
Assays & Geochemical Analysis	1000.00
Trenching	2000.00
Drafting, Secretarial, Printing	300.00
Camp Costs	500.00
Transportation	<u>500.00</u>
Total:	\$7825.00
Contingencies 10%	<u>782.50</u>
	8607.50
<u>TOTAL PHASE I</u>	<u>\$8600.00</u>

Induced Polarization Surveys will be run on selected areas depending on the findings of the previous surveys. Diamond Drilling is a success contingent Phase II operation.

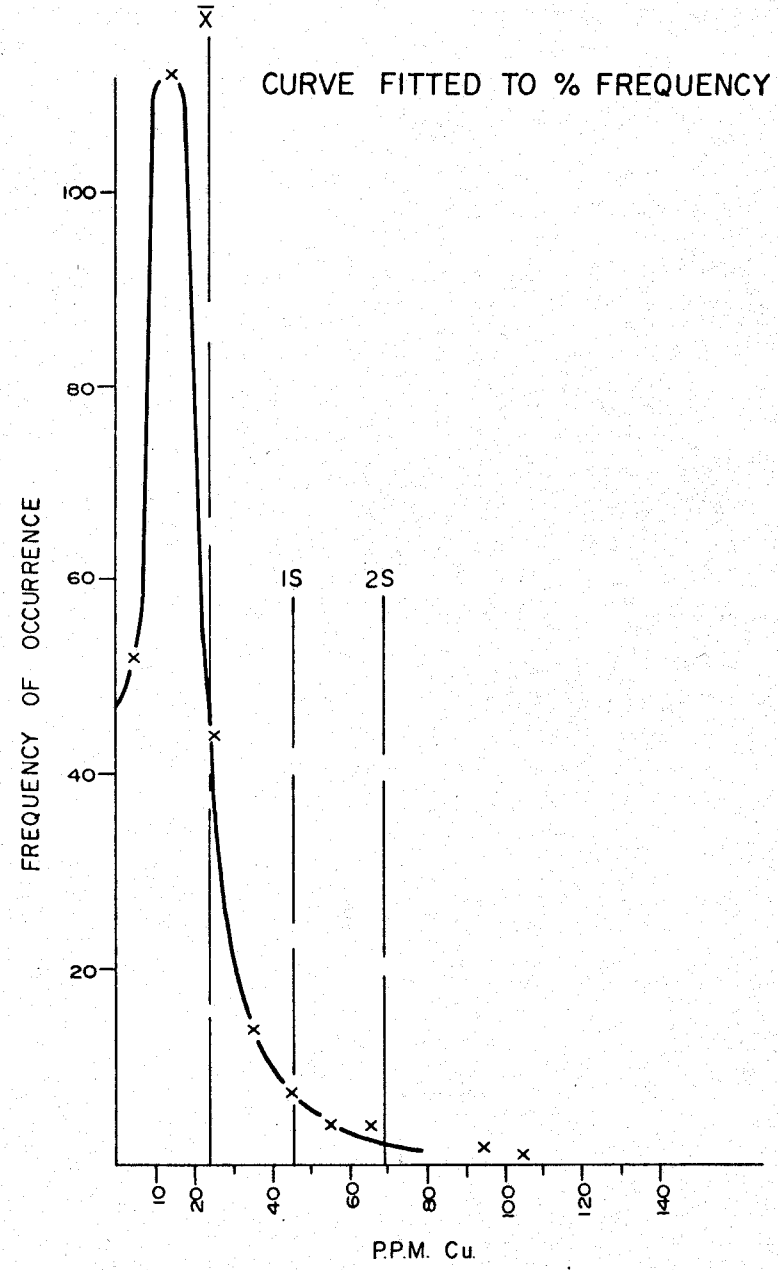
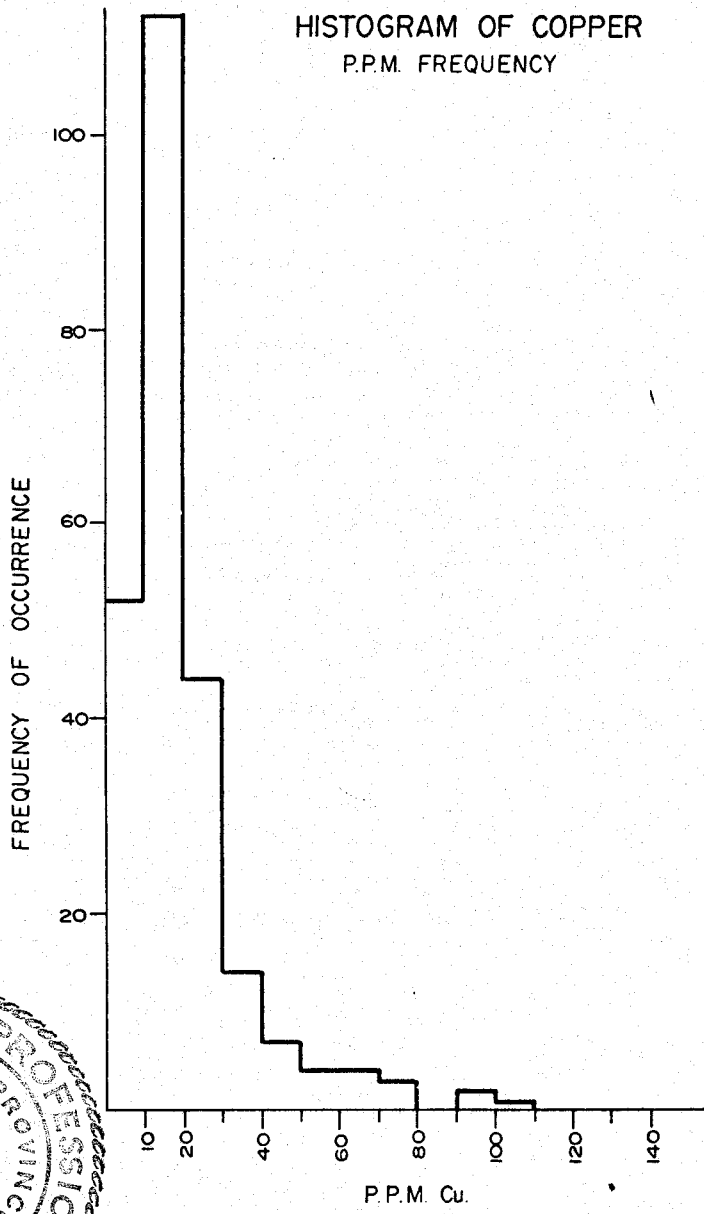
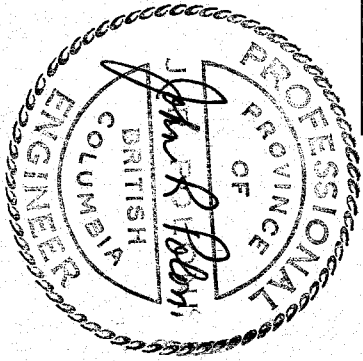
Respectfully submitted,

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



APPENDIX B

GEOCHEMICAL ASSAY DATA



NOTE
To accompany report —LAURA MINES LTD.
by JOHN R. POLONI.

CREST LABORATORIES (B.C.) LTD.B.C. REGISTERED ASSAYERS
GEOCHEMISTS1068 HOMER STREET,
VANCOUVER 3, B.C.

Sept. 21, 1971

Mr. J. Poloni,
5502 - 8B Avenue,
DELTA, B.C.Lab No. 681GGeochemical analysis for molybdenum and copperMesh Size: - 80
Analytical Method: Atomic Absorption + Colorimetric
Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Moly	Copper	Sample Marked:	Moly	Copper
1	-2	31	26	-2	138
2	-2	43	27	-2	25
3	-2	34	28	-2	16
4	-2	22	29	-2	21
5	-2	34	30	-2	14
6	-2	19	31	-2	12
7	-2	18	32	-2	19
8	-2	18	33	-2	20
9	-2	15	34	-2	27
10	-2	29	35	-2	24
11	-2	22	36	-2	32
12	-2	20	37	-2	28
13	-2	13	38	-2	25
14	-2	19	39	-2	16
15	-2	24	40	-2	18
16	-2	22	41	-2	14
17	-2	29	42	-2	12
18	-2	27	43	-2	16
19	-2	30	44	-2	13
20	-2	18	45	-2	24
21	-2	17	46	-2	11
22	-2	72	47	-2	7
23	-2	32	48	-2	8
24	-2	20	49	-2	55
25	-2	18	50	-2	36
			51	-2	31

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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
52	-2	26	90	-2	32
53	-2	24	91	-2	15
54	-2	38	92	-2	17
55	-2	18	93	-2	22
56	-2	25	94	-2	24
57	-2	34	95	-2	30
58	-2	40	96	-2	18
59	-2	48	97	-2	12
60	-2	29	98	-2	14
61	-2	20	99	-2	14
62	-2	30	100	-2	18
63	-2	21	101	-2	10
64	-2	43	102	-2	14
65	-2	28	103	-2	58
66	-2	78	104	-2	25
67	-2	32	105	-2	30
68	-2	18	106	-2	18
69	-2	36	107	-2	8
70	-2	30	108	-2	14
71	-2	9	109	-2	11
73	-2	29	110	-2	10
75	-2	29	111	-2	15
76	-2	22	112	-2	36
77	-2	16	113	-2	46
78	-2	22	114	-2	23
79	-2	39	115	-2	20
80	-2	19	116	-2	18
81	-2	31	117	-2	13
82	-2	22	118	-2	20
83	-2	21	119	-2	8
84	-2	21	120	-2	23
85	-2	48	121	-2	35
86	-2	14	122	-2	52
87	-2	25	123	-2	66
88	-2	23	124	-2	32
89	-2	34	105x 125	-2	24

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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
126	-2	16	161	-2	28
127	-2	30	162	-2	17
128	-2	20	163	-2	14
129	-2	25	164	-2	18
130	-2	19	165	-2	11
131	-2	22	166	-2	24
132	-2	19	167	-2	48
133	-2	26	168	-2	10
134	-2	26	169	-2	35
135	-2	20	170	-2	58
136	-2	22	171	-2	60
137	-2	24	172	-2	34
138	-2	26	173	-2	26
139	-2	40	174	-2	20
140	-2	22	175	-2	13
141	-2	20	176	-2	9
142	-2	21	177	-2	13
143	-2	24	178	-2	6
144	-2	20	179	-2	10
145	-2	32	180	-2	6
146	-2	26	181	-2	15
147	-2	116	182	-2	15
148	-2	36	183	-2	12
149	-2	25	184	-2	14
150	-2	24	185	-2	16
151	-2	45	186	-2	16
152	-2	38	187	-2	22
153	-2	19	188	-2	12
154	-2	18	189	-2	13
155	-2	50	191	-2	17
156	-2	12	192	-2	16
157	-2	14	193	-2	22
158	-2	16	194	-2	16
159	-2	21	195	-2	39
160	-2	52	196	-2	18
			197	-2	20

Mr. J. Poloni,
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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
198	-2	23	234	-2	12
199	-2	14	235	-2	5
200	-2	13	236	-2	7
201	-2	24	237	-2	11
202	-2	16	238	-2	12
203	-2	22	239	-2	8
204	-2	18	240	-2	11
205	-2	38	241	-2	6
206	-2	26	242	-2	7
207	-2	34	243	-2	10
208	-2	34	244	-2	20
209	-2	12	245	-2	10
210	-2	25	246	-2	6
211	-2	23	247	-2	7
212	-2	23	248	-2	10
213	-2	20	249	-2	10
214	-2	20	250	-2	6
215	-2	18	251	-2	8
216	-2	23	252	-2	18
217	-2	49	253	-2	9
218	-2	18	254	-2	14
219	-2	25	255	-2	11
220	-2	18	256	-2	11
221	-2	8	257	-2	13
222	02	14	258	-2	14
223	-2	16	259	-2	14
224	-2	24	260	-2	8
225	-2	21	261	-2	20
226	-2	16	262	-2	13
227	-2	14	263	-2	12
228	-2	12	264	-2	13
229	-2	11	265	-2	17
230	-2	35	266	-2	26
231	-2	12	267	-2	20
232	-2	14	268	-2	10
233	-2	8	269	-2	20

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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
270	-2	32	307	-2	16
271	-2	10	308	-2	20
273	-2	16	309	-2	12
274	-2	13	310	-2	15
275	-2	16	311	-2	6
276	-2	15	312	2	8
277	-2	52	313	-2	6
278	-2	20	314	-2	6
279	-2	14	315	-2	8
280	-2	23	316	-2	8
281	-2	24	317	2	13
282	-2	63	318	-2	8
283	-2	31	319	-2	31
284	-2	30	320	-2	43
285	2	24	321	-2	60
286	-2	22	322	-2	12
287	-2	20	323	-2	20
288	-2	17	324	-2	7
289	-2	38	325	-2	10
290	-2	22	326	-2	7
291	-2	32	327	-2	14
292	-2	12	328	-2	15
293	-2	19	329	-2	19
294	-2	12	330	-2	16
295	-2	24	331	-2	14
296	-2	18	332	-2	30
297	-2	14	333	-2	26
298	-2	19	334	-2	22
299	-2	16	335	-2	118
300	-2	18	336	-2	13
301	2	22	337	-2	22
302	-2	16	338	-2	17
303	-2	14	339	-2	27
304	-2	22	340	-2	16
305	-2	12	341	-2	32
306	-2	10	342	-2	18

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 Lab No. 681G,
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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
343	-2	22	380	-2	24
344	-2	18	381	-2	18
345	-2	14	382	-2	36
346	-2	25	383	-2	23
347	-2	29	384	-2	11
348	-2	38	385	-2	14
349	-2	36	386	4	19
350	-2	28	387	-2	68
351	-2	98	388	-2	7
352	-2	31	389	-2	66
353	-2	102	390	-2	50
354	-2	200	391	-2	22
355	-2	79	392	-2	28
356	-2	14	393	-2	12
357	-2	42	394	-2	10
358	-2	22	395	-2	10
359	-2	6	396	-2	136
360	-2	14	397	-2	78
361	-2	22	399	-2	13
362	-2	28	400	-2	19
363	-2	31	401	-2	46
364	2	48	402	-2	22
365	-2	33	403	-02	17
366	-2	26	404	02	20
367	-2	44	405	-2	18
368	-2	99	406	-2	18
369	-2	20	407	-2	15
370	-2	44	408	-2	19
371	-2	80	409	-2	20
372	-2	11	410	-2	54
373	-2	20	411	-2	28
374	02	25	412	-2	15
375	-2	21	413	-2	36
376	-2	12	414	-2	14
377	-2	14	415	-2	20
378	-2	18	416	-2	10

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Sample Marked:	Moly ppm	Copper ppm	Sample Marked:	Moly ppm	Copper ppm
417	02	20	452	-2	28
418	-2	24	453	-2	17
419	-2	36	454	-2	10
420	-2	13	455	-2	14
421	-2	25	456	-2	22
422	-2	12	457	-2	28
423	-2	15	458	-2	13
424	2	18	459	-2	11
425	-2	14	460	-2	30
426	-2	21	461	-2	10
427	-2	14	462	-2	14
428	-2	64	463	-2	36
429	-2	18	464	-2	6
430	-2	14	465	-2	28
431	-2	20	466	-2	13
432	-2	22	467	-2	10
433	-2	10	468	-2	12
434	-2	48	469	2	19
435	-2	58	470	-2	10
436	-2	16	471	-2	10
437	-2	18	472	-2	10
438	-2	32	473	-2	8
439	-2	20	474	-2	10
440	-2	30	475	-2	8
441	-2	20	476	-2	7
442	-2	14	477	-2	8
443	-2	30	478	-2	8
444	-2	27	479	-2	12
445	-2	28	480	-2	6
446	-2	54	481	-2	5
447	-2	10	483	-2	8
448	-2	18	484	-2	6
449	-2	14	485	-2	12
450	2	20	486	-2	19
451	-2	248	487	-2	14

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Lab No. 681G,
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Sample Marked:	Moly ppm	Copper ppm
488	-2	21
489	-2	14
490	-2	14
491	-2	20
492	-2	12
493	-2	20
494	-2	20
495	-2	10
496	-2	14
497	-2	13
498	2	10
499	-2	8
500	-2	8
501	-2	12
502	-2	8
503	-2	± 8
504	-2	10
505	-2	12
506	-2	6
507	-2	14
L 45 69E	2	56
272	-2	13
482	-2	5

Yours truly,

CREST LABORATORIES (B.C.) LTD.,



F.C. Burgess
Chief Assayer

APPENDIX C

REGIONAL GEOLOGY

APPENDIX D

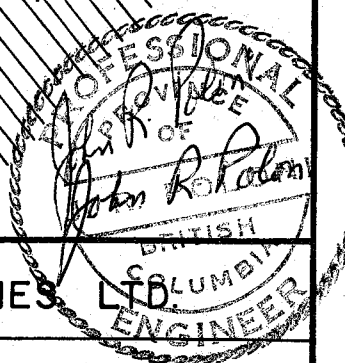
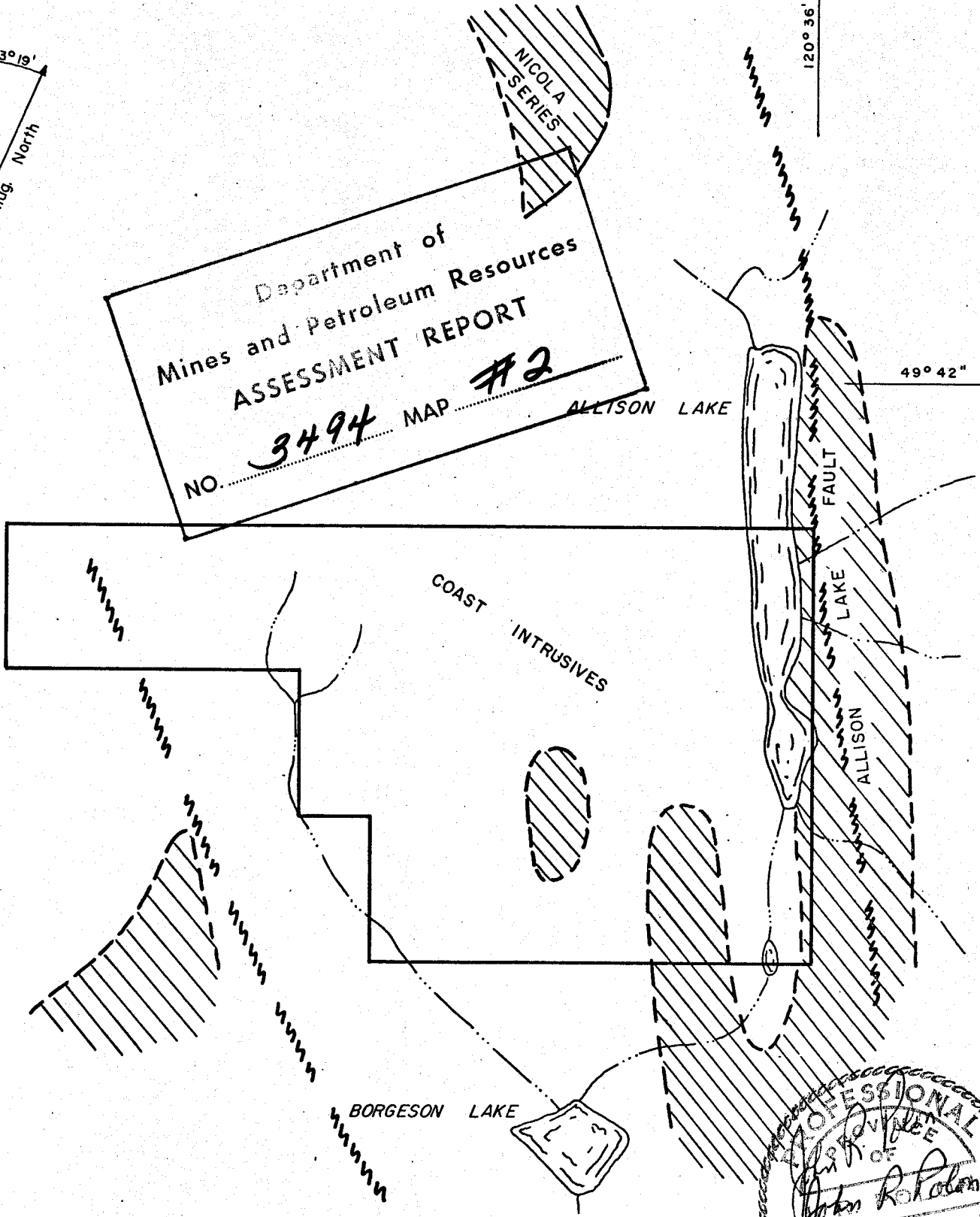
GEOCHEMICAL PLAN

GENERAL COMPILATION



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3494 MAP #2

NICOLA
SERIES



LAURA MINES LTD.	
REGIONAL GEOLOGY	
JOHN R. POLONI - B. Sc., P. Eng.	
SCALE: 1" = 3000'	APRIL 26, 1971

N.B. Ref. G.S.C. Map 888A

FIG. 2

APPENDIX E

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.)

APPENDIX F

WRITER'S CERTIFICATE

CERTIFICATE

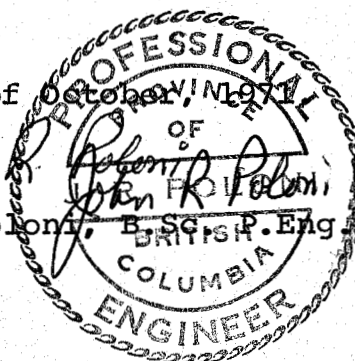
I, John R. Poloni of 5502 - 8B Avenue,
in Delta, in the Province of British Columbia,

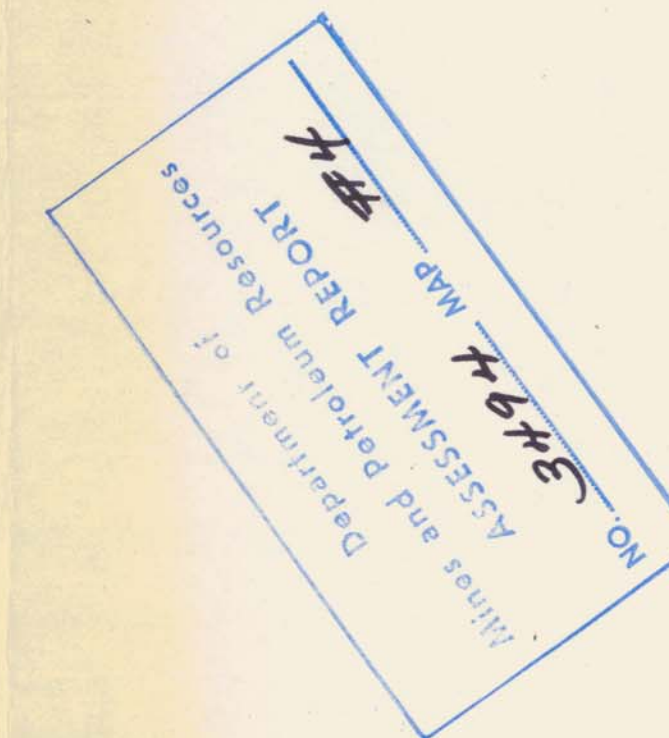
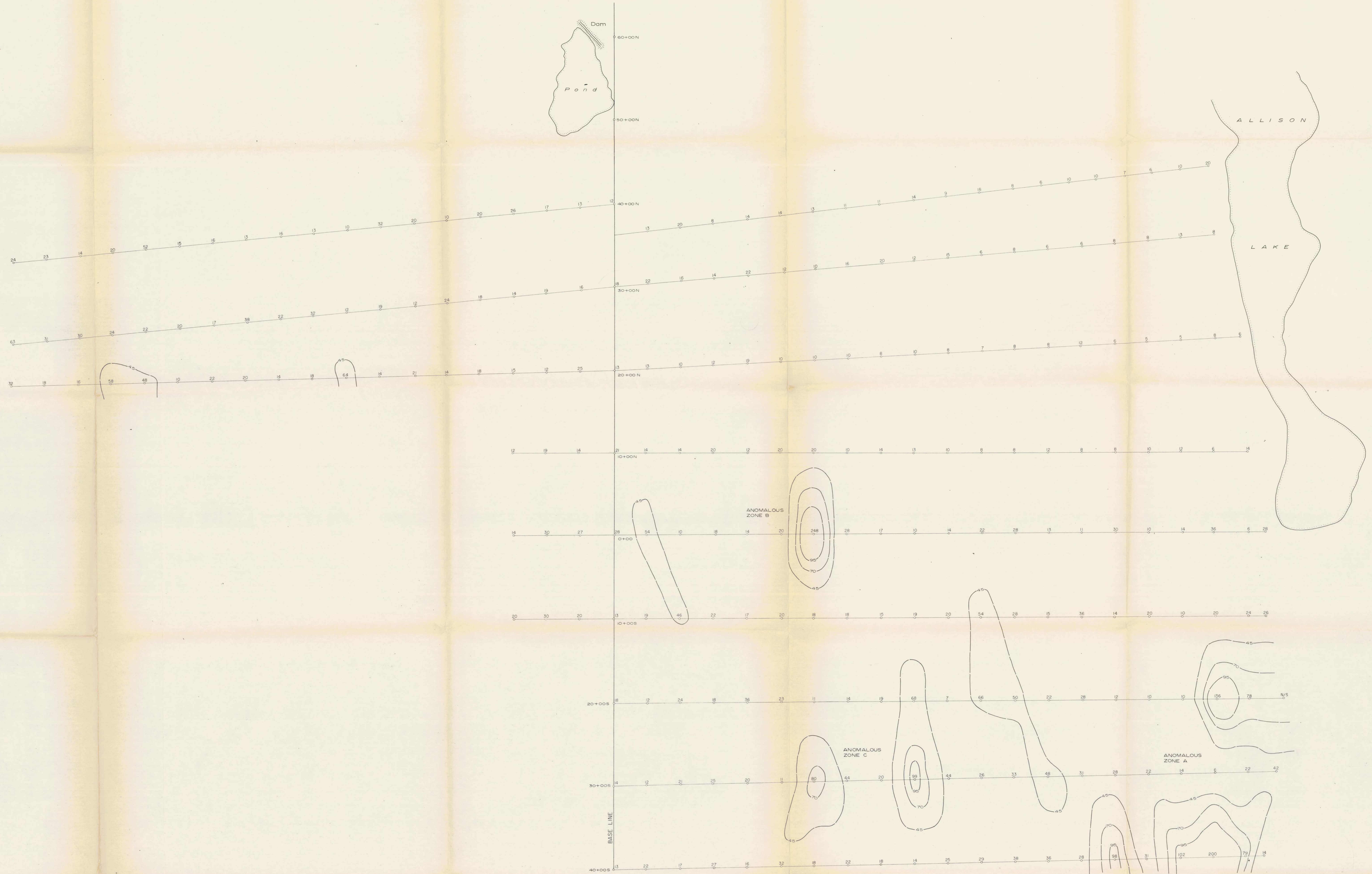
DO HEREBY CERTIFY THAT:

- 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 18th day of October, 1971

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





LEGEND
BASE LINE
GEOCHEMICAL LINES-STATIONS
GEOCHEMICAL DATA - Cu
MEAN 24 PPM
THRESHOLD > 45 PPM
POSSIBLY ANOMALOUS > 70 PPM
PROBABLY ANOMALOUS > 95 PPM

M-4
3494

LAURA
D
GEOR



LEGEND

ROADS	
MAIN	—
ACCESS, LOGGING	- - -
CLAIM FOOT	□
CLAIM LINES	—
BASE LINE	—
GEOCHEMICAL SURVEY LINES	—
SAMPLES	Number PPM Cu
SWAMP	~
DRAINAGE	—

N.B. Topographic data by ALLWEST FORESTRY & RESOURCES SERVICES LTD.
— Allimeter readings during survey

No. 3494
 ASSESSMENT REPORT
 Department of
 Mines and Petroleum Resources
 Map # 547

3494 M-3

Laura Mines Ltd.
 D. D. CLAIMS
 SIMILKAMEEN M.D.
GENERAL COMPILATION
 JOHN R. POLONI B.Sc. P.Eng.
 SCALE 1" = 400' DATE October 18, 1971

