

5034

REPORT

92H/10E

on

GEOCHEMISTRY AND GEOLOGY

PINE CLAIMS

SIMILKAMEEN MINING DIVISION

for

PACIFIC RESOURCES DEVELOPMENTS LTD.

by

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

June 16, 1974

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <b>5034</b> MAP.....
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## SUMMARY AND CONCLUSIONS

Pacific Resources Developments Ltd. controls the block of 59 contiguous mineral claims near Allison Lake, British Columbia.

Geochemical and geological surveys have been undertaken by the author during 1973 and 1974 to evaluate the economic potential of the property. The 1974 surveys covered only parts of the Pine claims which appeared to have been unexamined from the 1973 work.

Only weak, one and two station anomalies are indicated from the surveys except for sample 199 where a result of 1000 p.p.m. was obtained.

It is recommended that further work be undertaken on the Dy (3-8) and Reg (1-16 ) claims which have not been explored in these programs.

## INTRODUCTION

During the period September 1973 to June 16, 1974 additional exploration and evaluation was undertaken on the Pine claims controlled by Pacific Resources Developments Ltd.

This work included photo-topographic and geological surveys using Aerial Photography, and Road location survey, timber inventory survey and preliminary clearing planning. Allwest Forestry and Resources Services Ltd. undertook the Aerial surveys.

Geological and Geochemical surveys undertaken by the author consisted of 10.2 line miles, which are reported on herein.

Survey results by Allwest Forestry and Resources Services will be submitted independently.

## DISCUSSION

Features of the property such as location and access, physiography, glaciation and climate, history and geology are discussed in a report by the author dated June 10, 1973 and will not be repeated at this time.

The work undertaken was to complete surveys of previous years when data blanks were obvious.

In this survey a total of 263 samples of B- horizon material collected in Kraft sample bags were assayed for copper content. Geological mapping was undertaken. Fig.#1.

An examination of the analytical data gave the following parameters for the geochemical survey.

Mean - 42.8 p.p.m.

Standard Deviation - 69.8 p.p.m.

COST OF THE EXPLORATION PROGRAM

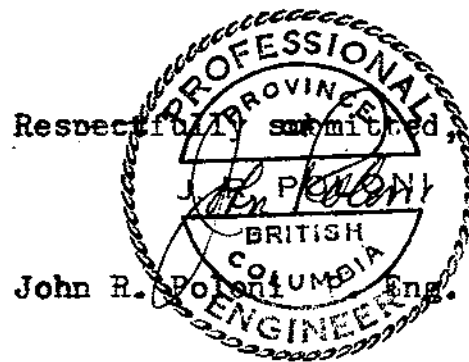
Period

June (1-16) 1974

Costs

Geochemical survey 10.2 line miles,  
Geological Mapping of outcrop areas,  
Examination of anomalies as indicated  
from 1973 surveys.

\$2,750.00



# GENERAL TESTING LABORATORIES

DIVISION: SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER STREET, VANCOUVER, B.C., CANADA

V6A 1W2

PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO:  
**PACIFIC RESOURCES DEVELOPMENTS**  
 1777 - 1705 Bury St.  
 Vancouver, B.C.  
 Attn: Mr. W. Hoffman

## CERTIFICATE OF ANALYSIS

No.: 7406-2559	DATE:
FILE:	July 4th, 1974

### 253 samples for General

NO	PPM	NO	PPM	NO	PPM	NO	PPM	NO	PPM
0	33	1	31	2	15	3	44	4	46
5	31	6	9	7	10	8	33	9	15
10	30	11	18	12	40	13	44	14	48
15	109	16	44	17	45	18	58	19	28
20	21	21	20	22	13	23	20	24	43
25	15	26	46						
31	63	32	25	33	11	34	8	35	7
36	6	37	9	38	69	39	17	40	43
41	18	42	22	43	24	44	26	45	169
46	29	47	22	48	31	49	20	50	22
51	33	52	26	53	23	54	13	55	24
56	16	57	16	58	14	59	10	60	6
61	9	62	17	63	10	64	11	65	20
66	18	67	11	68	25	69	15	70	13
71	11	72	48	73	13	74	11	75	26
76	96	77	65	78	50	79	50	80	54
81	156	82	48						
84	41	85	9						
88	45	89	45	90	40	91	41	92	38
93	11	94	156	95	43	96	43	97	54
98	43	99	39	100	9	101	39	102	41
103	45	104	18	105	35	106	35	107	7
108	48	109	8	110	48	111	13		
113	37	114	35	115	34	116	42	117	51
118	39	119	33						
121	31	122	26	123	57	124	19	125	19
126	135	127	36	128	18	129	26	130	28
131	22	132	18	133	238	134	20	135	50
136	18	137	33	138	15	139	3	140	6
141	184	142	33	143	180	144	26	145	39

BG/pm

Cont'd.....

*B. Given*

B. Given - Provincial Assayer

SIGNATURE AND TITLE

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 #777 - 1785 Hornby St.  
 Vancouver, B.C.  
 Attn: Mr. F. Hoffman

## CERTIFICATE OF ANALYSIS

No.: 7406-2559	DATE:
FILE:	July 4th, 1974

Page 2

NO	PPM	NO	PPM	NO	PPM	NO	PPM	NO	PPM
146	40	147	21	148	26	149	24	150	163
151	23	152	35	153	52	154	23	155	59
156	11	157	24	158	175	159	18	160	43
161	159	162	158	163	25	164	33	165	63
166	21	167	39	168	22	169	30	170	18
171	18	172	11	173	21				
175	22	176	65	177	63	178	58	179	25
180	24	181	29	182	59	183	110	184	21
185	20	186	32	187	7	188	21	189	163
190	9	191	74	192	20	193	80	194	18
195	7	196	11	197	18	198	37	199	1000*
200	17	201	57	202	58	203	169	204	126
205	13	206	126	207	80	208	56	209	52
210	24	211	37	212	22	213	52	214	25
215	112	216	35	217	39	218	8	219	41
220	18	221	18	222	26	223	35	224	26
225	30	226	13	227	51	228	56	229	77
230	30	231	26	232	11	233	11	234	66
235	16	236	95	237	38	238	19	239	46
240	16	241	8	242	12	243	39	244	26
245	13	246	28	247	31	248	25	249	11
250	51	251	22	252	41	253	21	254	23
255	63	256	96	257	24	258	72	259	17
260	28	261	43	262	17	263	20	264	93
265	24	266	21	267	26	268	18	269	21
270	18	271	18	272	18				

\* ASSAY RECOMMENDED

NUMBER OF SAMPLES	263
MEAN	42.8
VARIANCE	4877.02
STANDARD DEVIATION	69.83

Cont'd.....

BG/pm

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*B. Given*  
**B. Given - Provincial Assayer**

SIGNATURE AND TITLE

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VSA 1W2

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TO:  
**PACIFIC RESOURCES DEVELOPMENTS**  
 #777 - 1785 Hornby St.  
 Vancouver, B.C.  
 Attn: Mr. F. Holman

## CERTIFICATE OF ANALYSIS

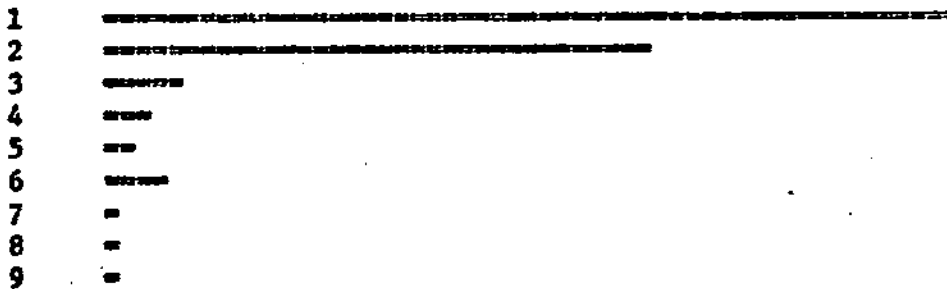
No.: 7106-2559	DATE:
FILE:	July 4th, 1974

Page 3

### FREQUENCY DISTRIBUTION

CLASS	LIMIT : LOW	HIGH	FREQUENCY	% REL.	% CUM.
1	.0	30.0	139	52.85	52.85
2	30.0	60.0	88	33.46	86.31
3	60.0	90.0	13	4.94	91.25
4	90.0	120.0	7	2.66	93.91
5	120.0	150.0	3	1.14	95.05
6	150.0	180.0	9	3.42	98.47
7	180.0	210.0	2	.76	99.23
8	210.0	240.0	1	.33	99.61
9	HIGHER THAN	240.0	1	.39	100.00

### HISTOGRAM



1 cc: Mr. J.R. Poloni., 5502 8B Ave., Delta, B.C.

Cont'd.....

EG/pm

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 V6A 1W2  
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TO:  
**PACIFIC RESOURCES DEVELOPMENTS**  
 # 877 - 1785 Hornby Street  
 Vancouver, B.C.  
 ATT.: Mr. F. Hofman

## CERTIFICATE OF ANALYSIS

No.: 7406-2559	DATE:
FILE:	July 4th, 1974

263 samples for Copper

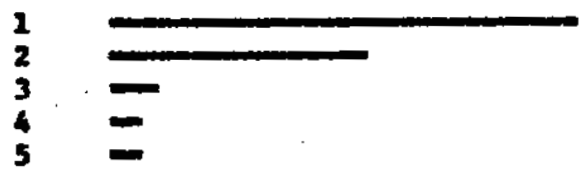
Page 4

NUMBER OF SAMPLES	263
AFTER REITERATION	238
NORMALIZED MEAN	29.17
VARIANCE	255.85
STANDARD DEVIATION	16.00
CHI SQUARED	23.48

### FREQUENCY DISTRIBUTION OF 38 SAMPLES AS MULTIPLES OF NORMALIZED MEAN

CLASS	LIMIT : LOW	HIGH	FREQUENCY	Z REL.	Z CUM.
1	2x	4x	22	57.89	57.89
2	4x	6x	12	31.58	89.47
3	6x	8x	2	5.26	94.73
4	8x	10x	1	2.63	97.36
5	HIGHER THEN	10x	1	2.64	100.00

### HISTOGRAM



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*B. Given*  
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5502 - 8B Avenue,  
Delta, B.C.,  
V4M-1V6  
October 7, 1974.

Mr. E.J. Bowles,  
Chief Gold Commissioner,  
Department of Mines and Petroleum Resources,  
Victoria, B.C.

10892

Dear Sir:

RE: Pine Mineral Claims Geological - Geo-  
chemical Report #5034

I regret the delay in replying to your letter dated August 30, 1974 as it was brought to my attention only on October 2nd. As you are aware from the map dated June 16, 1974, the mapping was undertaken at 400 scale with attention being paid principally to the search for economic mineralization.

The Nicola Volcanic rocks as seen along the road between stations 4 - 31 inclusive are dark green massive andesite generally cut by near vertical fractures trending north-south. Epidote alteration occurs as films or filaments in, more or less, all outcrops. These filaments generally have strikes and dips which appear at random orientation. The most common strikes are northerly and dips are generally 45 - 60 degrees W. The alteration appears to increase near station 31 on approaching the intrusive-volcanic contact. In examining the northerly road this contact appears to have a north 20 degree W. strike.

The Intrusive rocks as seen between stations 31 and 45 are a pink to deep red granodiorite, medium to coarse textured containing biotite and very minor magnetite. The fractures at times contain crushed clay gouge.

OCT 11 '74 AM



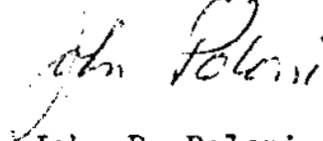
DEPT. OF MINES  
AND PETROLEUM RESOURCES

JOHN R. POLONI P. Eng.  
Consulting Geologist

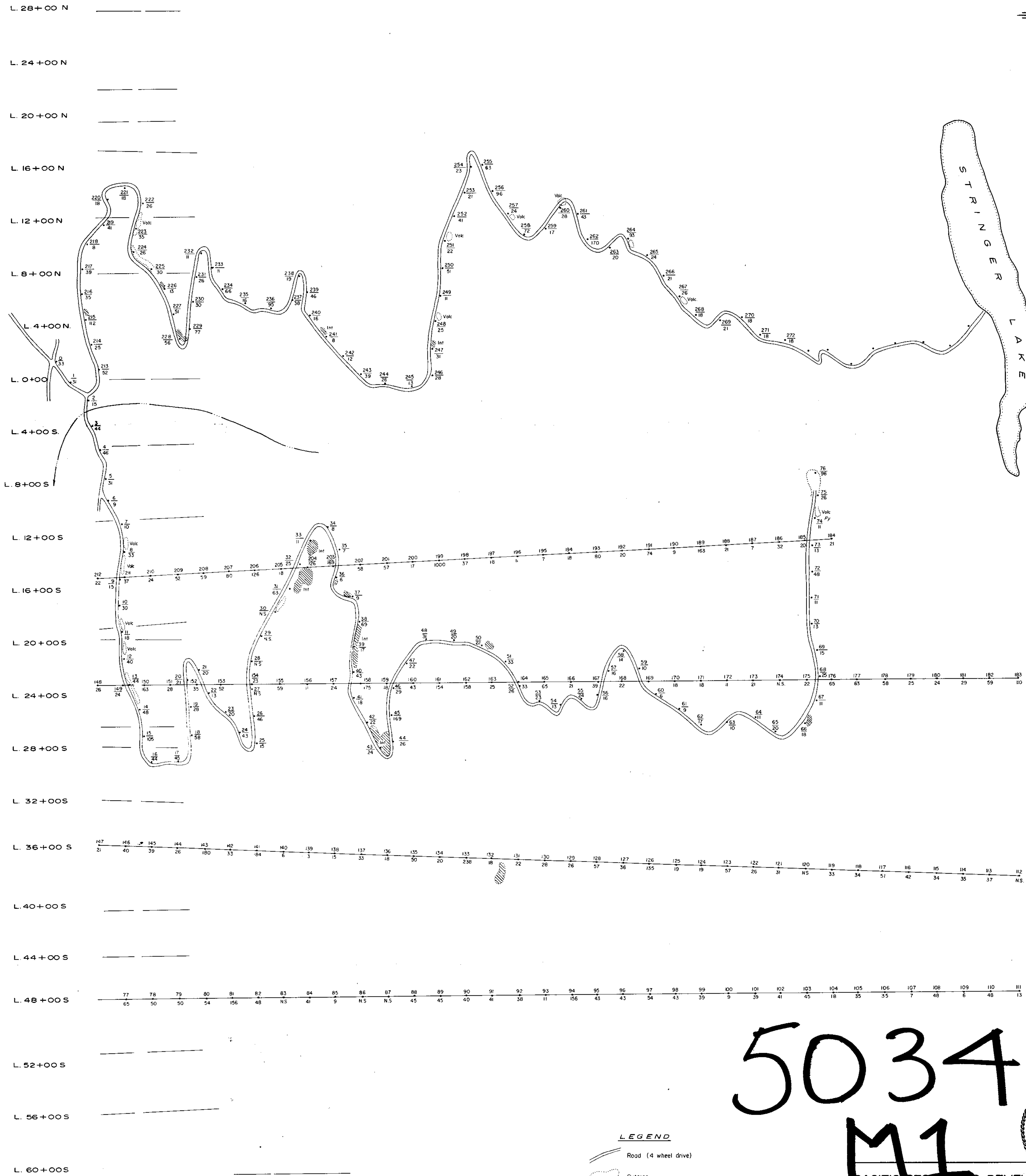
No economic mineralization was observed in either rock type. A zone of alteration containing pyrite and quartz was observed near station 74. This zone is approximately 4 feet wide, vertical, and has a north westerly strike.

As is observed, the greater position of the surveyed area is overburden covered.

Yours truly

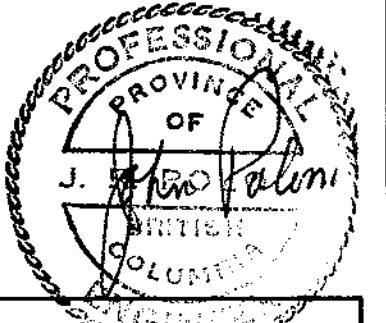
A handwritten signature in cursive script that reads "John R. Poloni". The signature is written in dark ink and is positioned above the typed name.

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



5034  
M1

- LEGEND**
- Road (4 wheel drive)
  - Outcrop
  - Soil sample location
  - Coast intrusives
  - Volcanic (Nicola Group)
  - Pyrite
  - Sample Number
  - Copper p.p.m.



PACIFIC RESOURCES DEVELOPMENTS LTD.  
ALLISON LAKE PROPERTY  
GEOCHEMICAL - GEOLOGY  
1974  
SIMILKAMEEN M.D.  
JOHN R. POLONI B.Sc., P. Eng.  
SCALE: 1" = 400'      DATE: June 16, 1974