

2196

GEOCHEMICAL REPORT

ON THE KG 11-20 AND KG 31-40 CLAIMS

Located $2\frac{1}{2}$ miles south of Goosly Lake

(Colleymount 54° , 126° SE)

OMINECA M.D.

By R. Wolfe, P.Eng.

on behalf of

BAYLAND MINES LTD. (N.P.J.)

Work done between June 27 and August 14, 1969

Dated December 15, 1969

GOVERNMENT AGENT

RECEIVED

FEB 2 - 1970

SMITHERS. B. C.

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NO. 2196 MAP.....

INTRODUCTION

The following report is a record of the geochemical exploration work done in June, July, and August on the KG claims owned by Bayland Mines, Ltd. (N.P.L.).

The claims were acquired early in 1969, following the find of a massive type copper-silver orebody by Kennco (Western) Explorations Ltd. west of Goosly Lake.

LOCATION AND ACCESS

The claims are located at Lat: $54^{\circ}08'$, Long: $126^{\circ}22'$; about $2\frac{1}{2}$ miles south of Goosly Lake, 21 air miles southeast of Houston, B.C.

Access by logging road (27 miles) from Houston is excellent.

GEOMORPHOLOGY

The claims are situated on a westerly sloping hillside with a total relief of about 1200'. Overburden consisting of glacial till and clay is extensive, but tertiary volcanics crop out on the eastern half of the claims.

Topographic map reference: 93L/1W "Colleymount" scale one inch to $1\frac{1}{4}$ miles.

PROPERTY AND OWNERSHIP

The property consists of 20 claims owned outright by Bayland Mines Ltd. (N.P.L.).

<u>Claim</u>	<u>Tag. No.</u>	<u>Record No.</u>
KG 11-20	982533-982542	67212-67221
KG 31-40	982553-982562	67232-67241

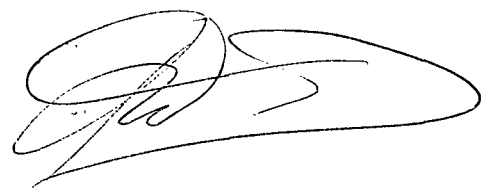
Date of location: March 2,3, 1969

Recording date: March 10, 1969

COST BREAKDOWN AS APPLICABLE TO ASSESSMENT WORK

<u>Name</u>	<u>Position</u>	<u>No. Days.</u>	<u>Dates</u>	<u>Average Rate</u>	<u>Amount</u>
R. Moisan	Linecutter	9	6/27-7/5	\$30/day	\$ 270.
R. Bolduc	"	9	"	"	270.
C. Gagnon	"	9	"	"	270.
B. Marcel	" + Foreman	9	"	"	270.
B. Trembley	Cook	9	"	"	270.
Total		45			
R. Jensen	Linecutter	32	7/2-8/3	\$30/day	960.
G. Barsky	"	32	"	"	960.
J. Jerabeck	"	27	7/8-8/3	"	810.
P. McKay	"	14	7/8-7/22	"	420.
I. Maitland	"	9	7/8-7/17	"	270.
M. Crocker	Soil sampler Foreman	10	7/8-7/17, 7/29	"	300.
D. Ball	"	27	7/8-8/3	"	810.
J. Hartline	Cook	27	7/8-8/3	"	810.
R. Wolfe	Geological Engineer	8	6/27,7/5-6, 7/16,29,31, 8/2-3	100/day	800.
J. H. Montgomery	"	1	8/13	100/day	100.
Total days		232			
				Total Labour	\$7,590.
Soil Analyses		281 Samples @ \$2.			562.
Food		232 mandays @ \$8.			1,856.
TOTAL					\$ 10,008.

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *26*
day of *Jan.* *1970*, A.D.



Julie Turner
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia,
SUB-MINING RECORDER

QUALIFICATIONS OF OPERATORS

Foreman M. Crocker has worked for the author for 2 field seasons in 1967 and 1968 in the capacity of silt, soil, and tree sampler. He is thoroughly experienced in conducting geochemical programs in different areas of B.C. and has proved himself to be dependable and conscientious in his work. Daryl Ball was trained to take soil samples and gained experience prior to his employment on the KG claims. He worked under supervision of Crocker or the author.

Linecutting Grid

A baseline, 4800 feet long in an east-west direction was cut, chained, and marked every 100 feet. Crosslines, 4800 feet long were cut, chained, and marked every 100 feet in a north-south direction.

As the brush was extremely dense, the linecutting progress was very slow.

GEOCHEMICAL SOIL SURVEY

a) Soil Development

Soil development is immature. The soil consists mostly of either glacial till (sand and clay), or organic humus in the swampy areas. The B horizon was only sampled in a few places. The vast majority of the samples consist of the A₀ and A₁ horizons.

(b) Field Procedure

Samples were collected on all lines every 200 feet. A specially constructed soil auger (diam. 1 inch) was used to facilitate sampling down to 3 feet. The sample was put in a brown paper envelope and careful notes were kept regarding depth, color, type horizon, texture, angle of slope, and direction of drainage. Each night, all information from the field was transferred to specially printed sheets to form a permanent record and prevent any possible errors. The samples were dried, packed in boxes, and shipped by rail to the laboratory. Every 400 feet along the baseline a soil profile was established and samples taken from different horizons and depths to properly correlate analytical results.

(c) Analytical Procedures

All samples were sent to: Vancouver Geochemical Laboratories Ltd., 1521 Pemberton Ave., North Vancouver.

The minus 80 mesh fraction was used; weight of sample 0.5 gram, volume of dilution 10 ml., extraction with hot HNO_3 and HClO_4 . Analysis by atomic absorption Spec. (techtron AA4) nitrous and acetylene for Mo and Acetylene and air for Cu and Zn. The analyst was Mr. Conway Chun.

(d) Interpretation of Results

From general experience in the area and the frequency distribution graphs on fig. 1, it can be concluded that

all soil samples only contain low background values of Cu, Zn, Ag, and Mo.

No difference was noted in the metal content of samples taken from either different depths or different type of horizons.

Since tertiary volcanics crop out in the eastern half of the claims, it appears probable from the geochemical pattern that these rocks also underlie the rest of the claims.

Frequency Distribution Tables

(a) Copper

<u>Range in P.P.M.</u>	<u>No of samples</u>	<u>% of total</u>
0-25	177	63%
26-50	89	31.7%
51-75	12	4.3%
76-100	1	0.3%
101-125	2	0.7%
	281	100%

(b) Silver

not detected	69	24.6%
0.5 ppm	131	46.6%
1 ppm	76	27.0%
1.5 ppm	5	1.8%
	281	100%

(c) Zinc

<u>Range in PPM</u>	<u>No. of Samples</u>	<u>% of total</u>
0-50	3	1%
51-100	213	76%
101-150	50	18%
151-200	12	4%
201-250	3	1%
	<hr/>	<hr/>
	218	100%

(d) Molybdenum

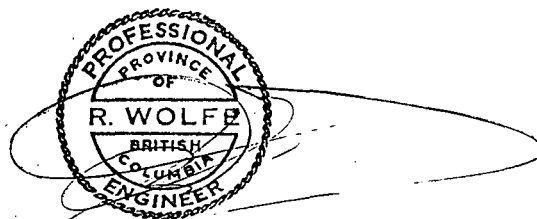
not detected	49	18%
1 ppm	119	42%
2 ppm	85	30%
3 ppm	24	9%
4 ppm	4	1%
	<hr/>	<hr/>
	281	100%

CONCLUSIONS AND RECOMMENDATIONS

The soil survey only showed low background metal content in the soil. No anomalous conditions were discovered.

No further geochemical work is recommended.

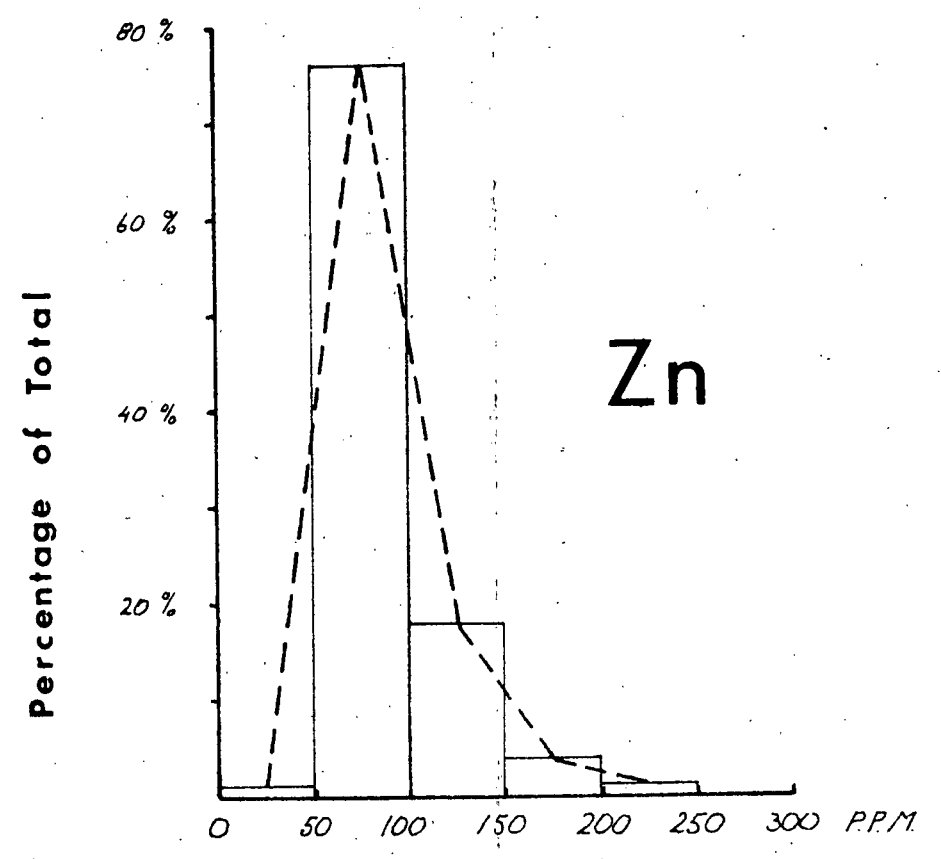
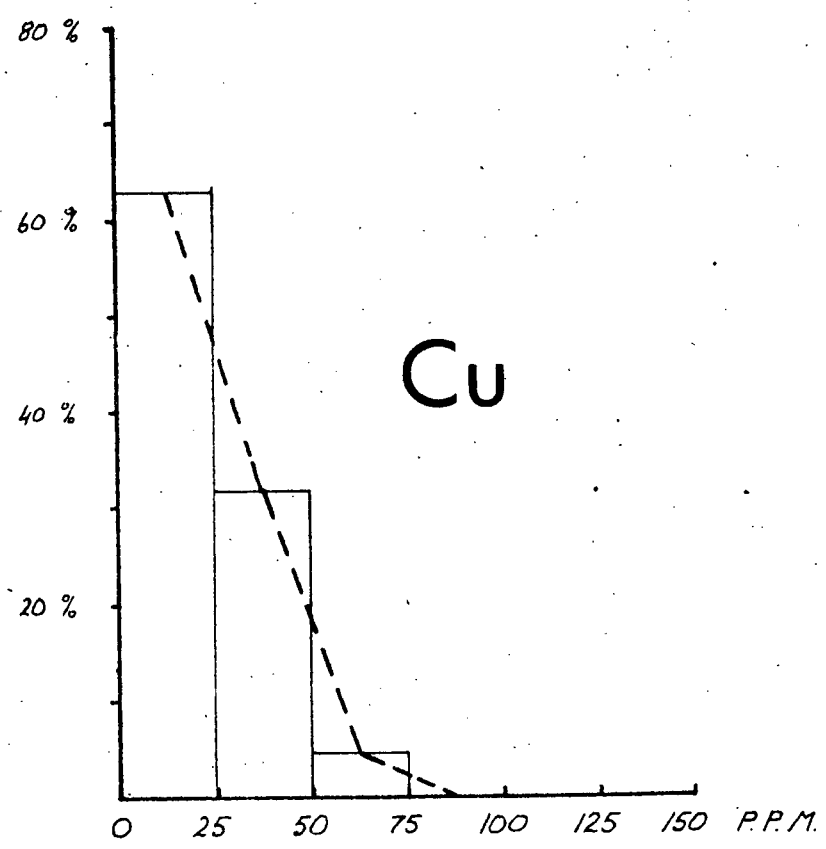
Respectfully submitted,



R. Wolfe, P. Eng.

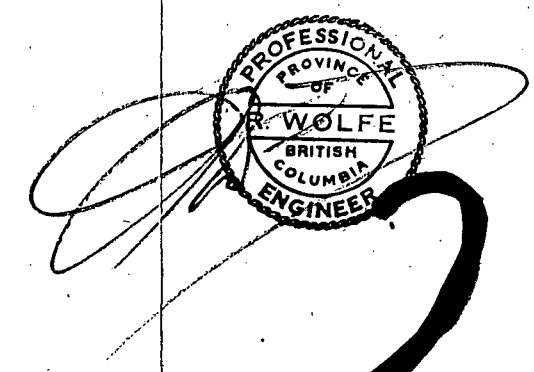
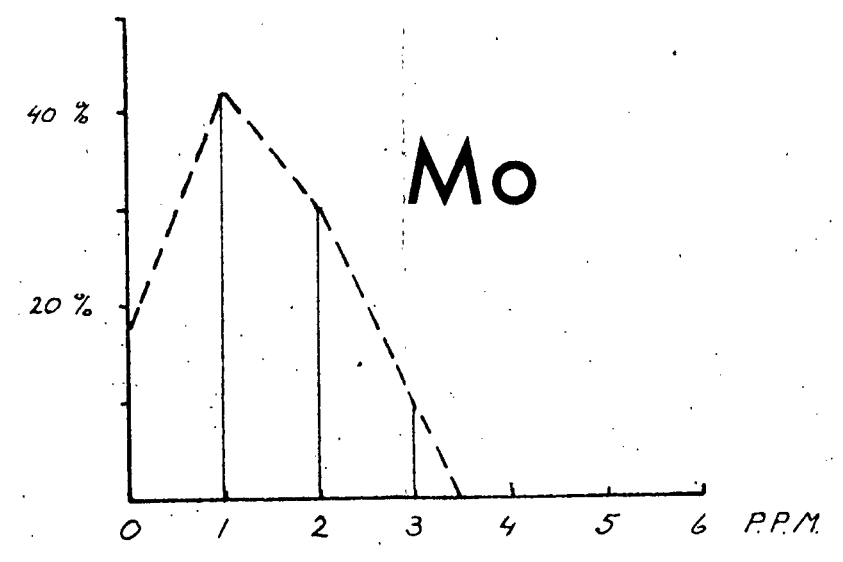
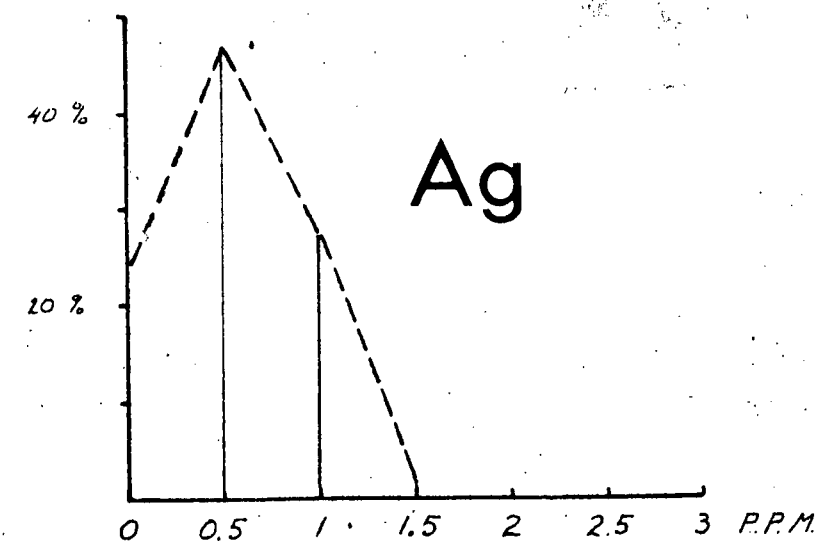
RR 1, Halfmoon Bay

Dec. 15, 1969



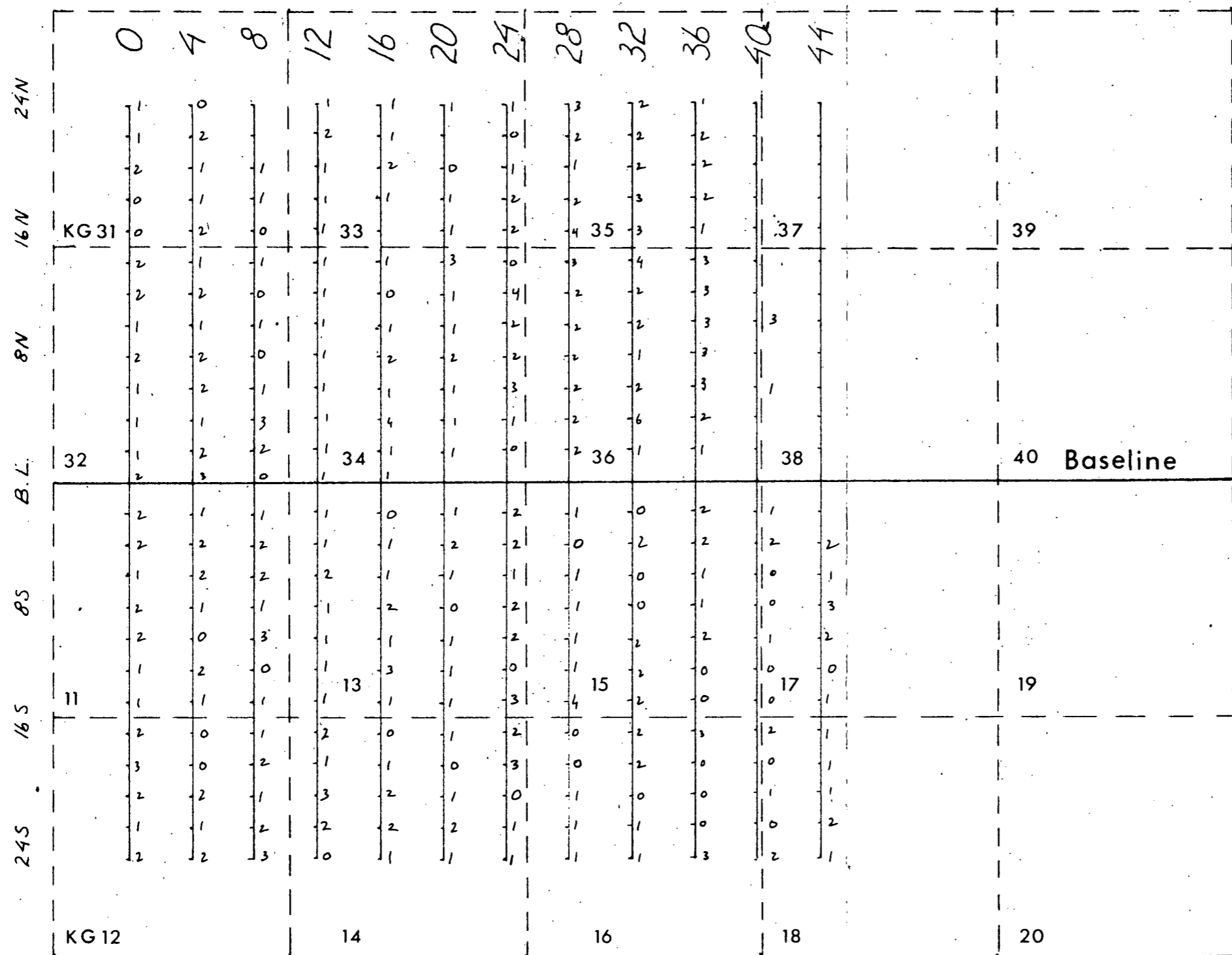
Frequency Distribution
281 Soil Samples

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Fig 1



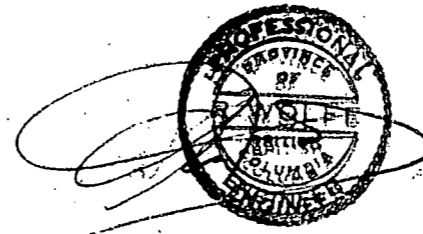
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LEGEND

- Approx. Claim Boundaries
- Soil Sample Site
- 2 Mo in P.P.M.

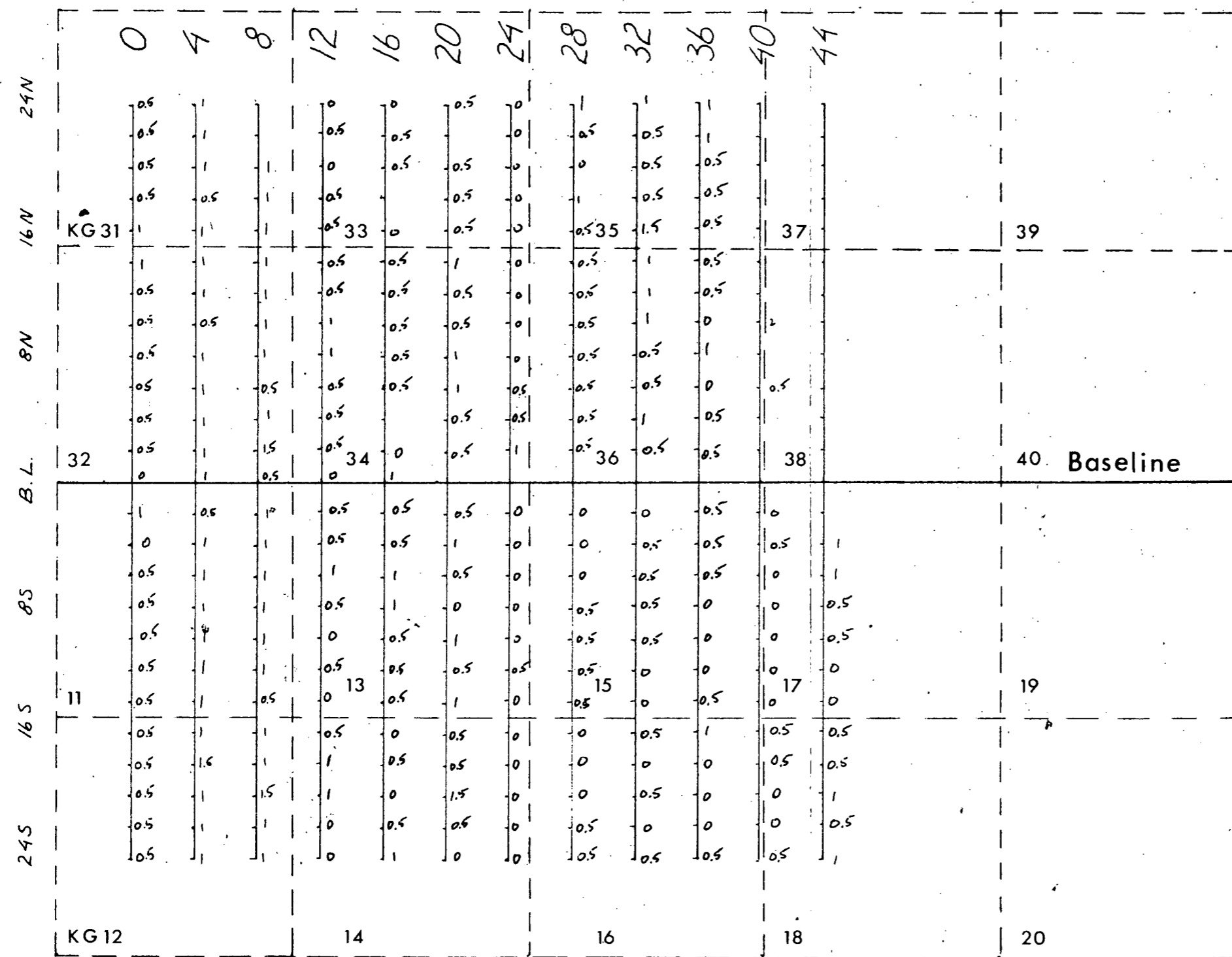
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Fig 3



BAYLAND MINES

KG Group Goosly Lake
 Soil Survey **Mo**
 1" = 800'
 Drawn: R.W. Dec. 10 69



LEGEND

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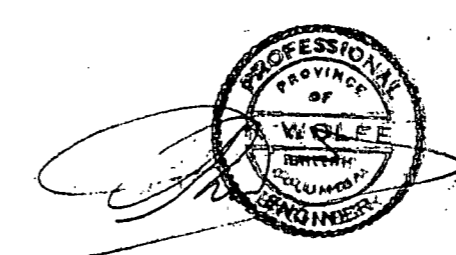
- Approx. Claim Boundaries
- Soil Sample Site
- 0.5 Ag in P.P.M.

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Fig 4

BAYLAND MINES

KG Group Goosly Lake
Soil Survey Ag
1" = 800'
Drawn: R.W. Dec. 10 69



	0	4	8	12	16	20	24	28	32	36	40	44	
24N	65	65		48	60		140	144	155	91			
	75	80		82	66		110	80	86	102			
	89	80	65	61	79	72	140	69	55	108			
	73	75	76	78		74	120	94	70	104			
16N	85	90	88	65	33	70	140	102	35	99	100		37
	142	145	75	81	94	90	95	53	80	233			
	90	115	86	87	69	96	80	76	169	80			
8N	86	124	106	81	73	57	108	104	151	205	169		
	92	65	116	85	125	79	90	96	175	99			
	83	95	61	103	46	130	72	135	135	175	123		
	83	70	115	76		57	85	96	83	75			
B.L.	32	72	175	147	96	34	92	115	135	64	36	69	72
	41	85	79	89	80								38
	83	74	95	75	74	86	80	56	73	143	80		
	63	65	68	73	51	77	80	65	105	110	100	64	
8S	107	75	80	78	72	73	55	75	72	95	85	164	
	98	84	76	104	62	112	75	85	65	45	64	77	
	64	80	95	76	128	92	170	71	129	84	145	132	
	57	65	70	85	73	81	90	55	48	54	65	55	
16S	11	75	65	70	83	13	71	82	80	67	15	59	95
													57
	63	70	60	73	65	91	74	64	80	135	62	85	
	68	90	71	64	125	72	64	65	57	100	74	65	
	75	55	80	85	101	30	64	65	66	58	50	75	
24S	71	190	111	75	90	57	70	62	70	134	63	210	
	87	57	135	70	85	70	75	132	61	155	138	140	
	KG 12				14			16			18		20

LEGEND

--- Approx. Claim Boundaries

--- Soil Sample Site

⁷² Zn in P.P.M.

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Fig 5

BAYLAND MINES

KG Group Goosly Lake

Soil Survey Zn

1" = 800'

Drawn: R.W. Dec. 10 69

