

GEOCHEMICAL REPORT ON THE
REX MINERAL CLAIM, NELSON
MINING DIVISION, BRITISH COLUMBIA

on behalf of

Mr. H. Tysseland

by

D.F. Symonds, B.Sc.

MONTGOMERY CONSULTANTS LTD.

August 10, 1984

NTS: 82F/2

LATITUDE: 49°12.5'N

LONGITUDE: 116°33.5'W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,922

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1.0 INTRODUCTION

This report, written on behalf of Mr. H. Tysseland of Vancouver, B.C. describes field work carried out by Montgomery Consultants Limited of Vancouver, B.C. on the REX mineral claim during July, 1984.

The REX mineral claim is situated approximately 13.0 kilometers north of the town of Creston, B.C. Access to the property is by four-wheel drive vehicle from Creston, B.C. via Highway 3A, the Duck Creek road and a logging access road north to the claim area.

2.0 SUMMARY AND CONCLUSIONS

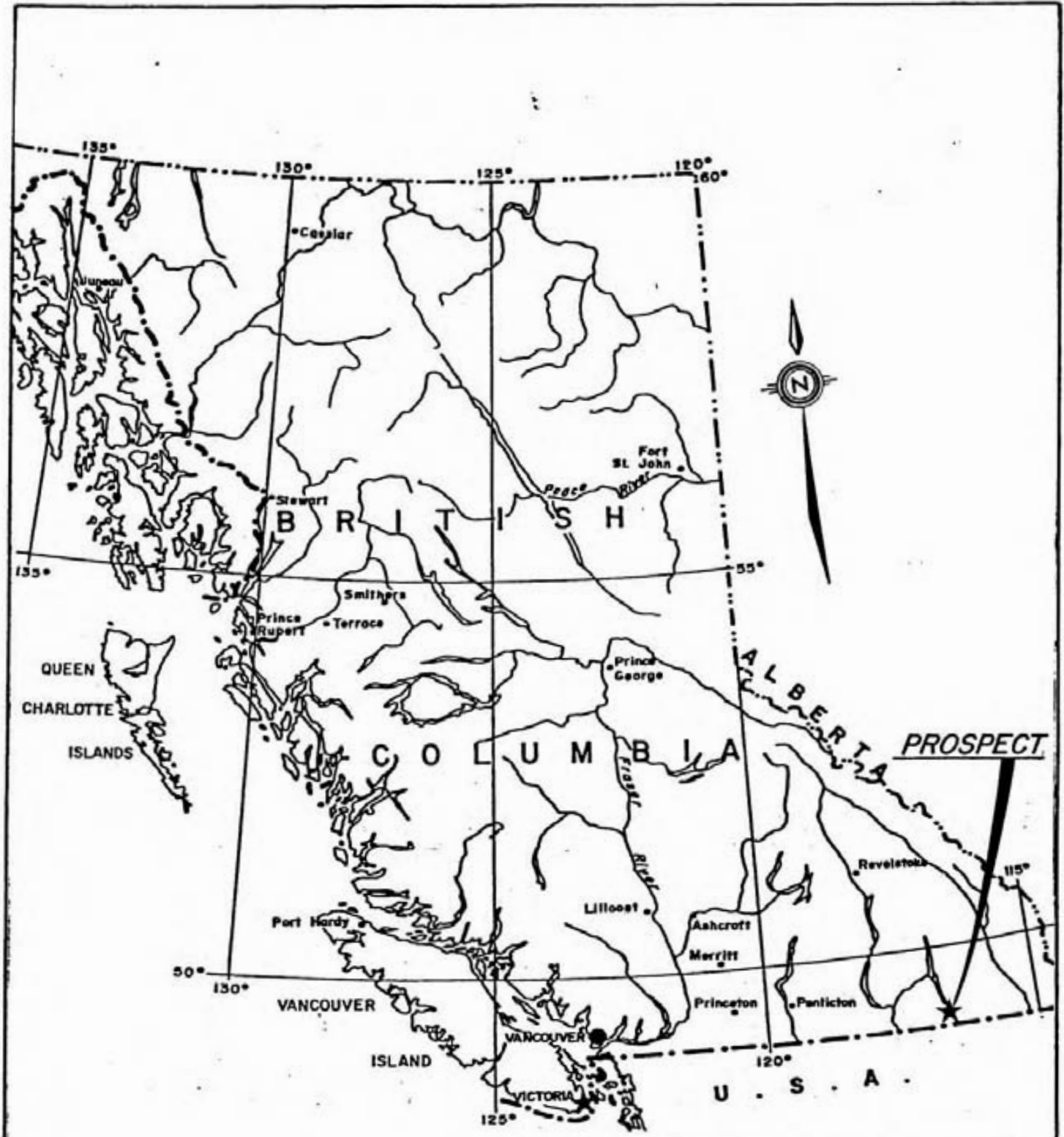
The REX mineral claim consists of 6 units and is owned by Mr. H. Tysseland of Vancouver, B.C. No previous work has been carried out on the immediate claim area, to the best knowledge of the writer. A substantial amount of work has been carried out on the LIZ B #1-4 mineral claims and a lesser amount of work on the JOHN 2 mineral claim located west and north of the REX mineral claim respectively.

During July of 1984, Montgomery Consultants Limited of Vancouver, B.C. carried out a geochemical soil survey on a portion of the REX claim. Two Pb geochemical anomalies, one approximately 500 meters in length (samples HT001 to HT0014 incl.) and the other approximately 150 meters in length (samples HT0032 to HT0035 incl.) were detected on the property. Follow-up work consisting of systematic geochemical soil sampling and geological mapping is recommended.

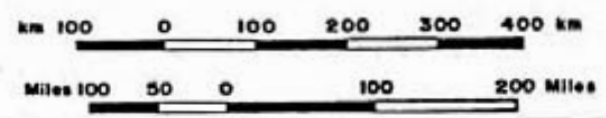
3.0 LOCATION AND ACCESS

The REX mineral claim (6 units) is located approximately 13.0 kilometers north of the town of Creston, British Columbia. The property lies on the west flank of a broad north-south ridge between Kootenay Lake to the west and Duck Creek to the east.

Access to the property is from Creston, B.C. north to the Duck Creek road turnoff just north of the village of Wynndel, B.C. on Highway 3A. A four-wheel drive road leaves the Duck Creek road approximately 1.0 kilometer east of the main highway junction and travels northerly to the claim area, a distance of approximately 5.0 kilometers.



H.TYSSELAND		
REX MINERAL CLAIM		
LOCATION MAP		
MONTGOMERY CONSULTANTS LTD.		
CHECKED: D.F.S.	SCALE: AS SHOWN	FIG.
DATE: Aug. 10, 1984	DRAWN: D.W.	3-1



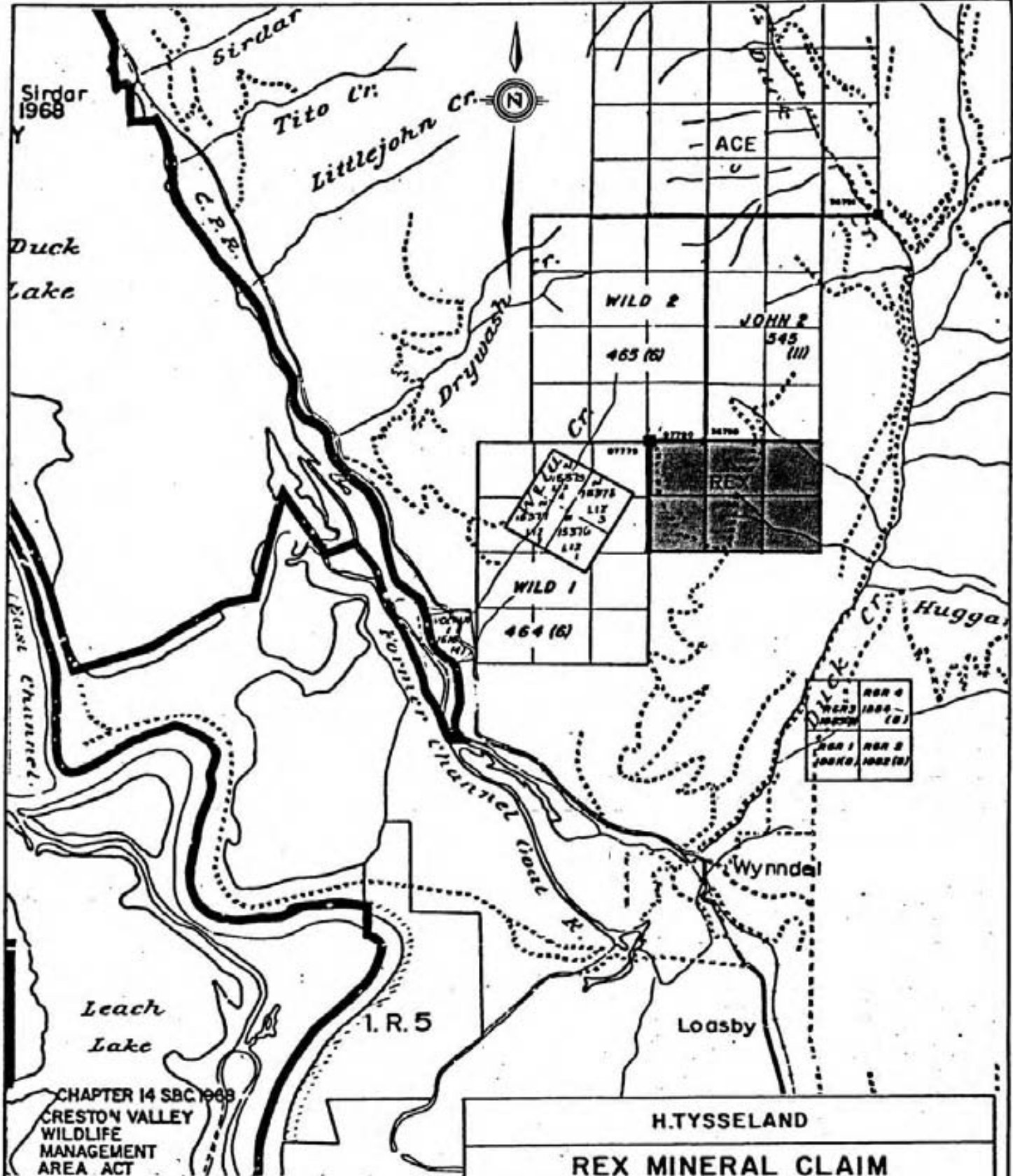
4.0 CLAIM INFORMATION

The REX mineral claim consists of 6 units and is owned by Mr. H. Tysseland of Vancouver, B.C. Claim information is shown in the following table:

CLAIM NAME (#Units)	RECORD #	EXPIRY DATE
REX (6)	3697 (5)	*May 1, 1985

*Based on acceptance of this assessment report.

The REX mineral claim is located in the Nelson Mining Division (see Figure 4-1).



Sirdar 1968

Duck Lake

East Channel

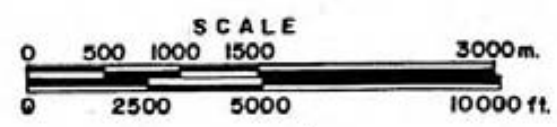
Leach Lake

I.R. 5

Loasby

Wynndel

CHAPTER 14 SBC 1968
 CRESTON VALLEY
 WILDLIFE
 MANAGEMENT
 AREA ACT



H.TYSSELAND		
REX MINERAL CLAIM		
CLAIM MAP		
MONTGOMERY CONSULTANTS LTD.		
CHECKED: D.F.S.	SCALE: 1:50,000	FIG.
DATE: Aug. 10, 1984	DRAWN: D.W.	4-1

5.0 PREVIOUS WORK AND REGIONAL GEOLOGY

5.1 Previous Work

No previous work has been carried out in the area of the REX mineral claim, to the best knowledge of the writer. A substantial amount of work has been carried out on the LIZ B #1-4 mineral claims and a lesser amount of work on the JOHN 2 mineral claim located west and north of the REX mineral claim respectively.

5.2 Regional Geology

The regional geology of the REX mineral claim area has been mapped by Rice in the late 1930's (Map 603A, with G.S.C. Memoir 228). The pertinent portion of this map has been reproduced in Figure 5-1.

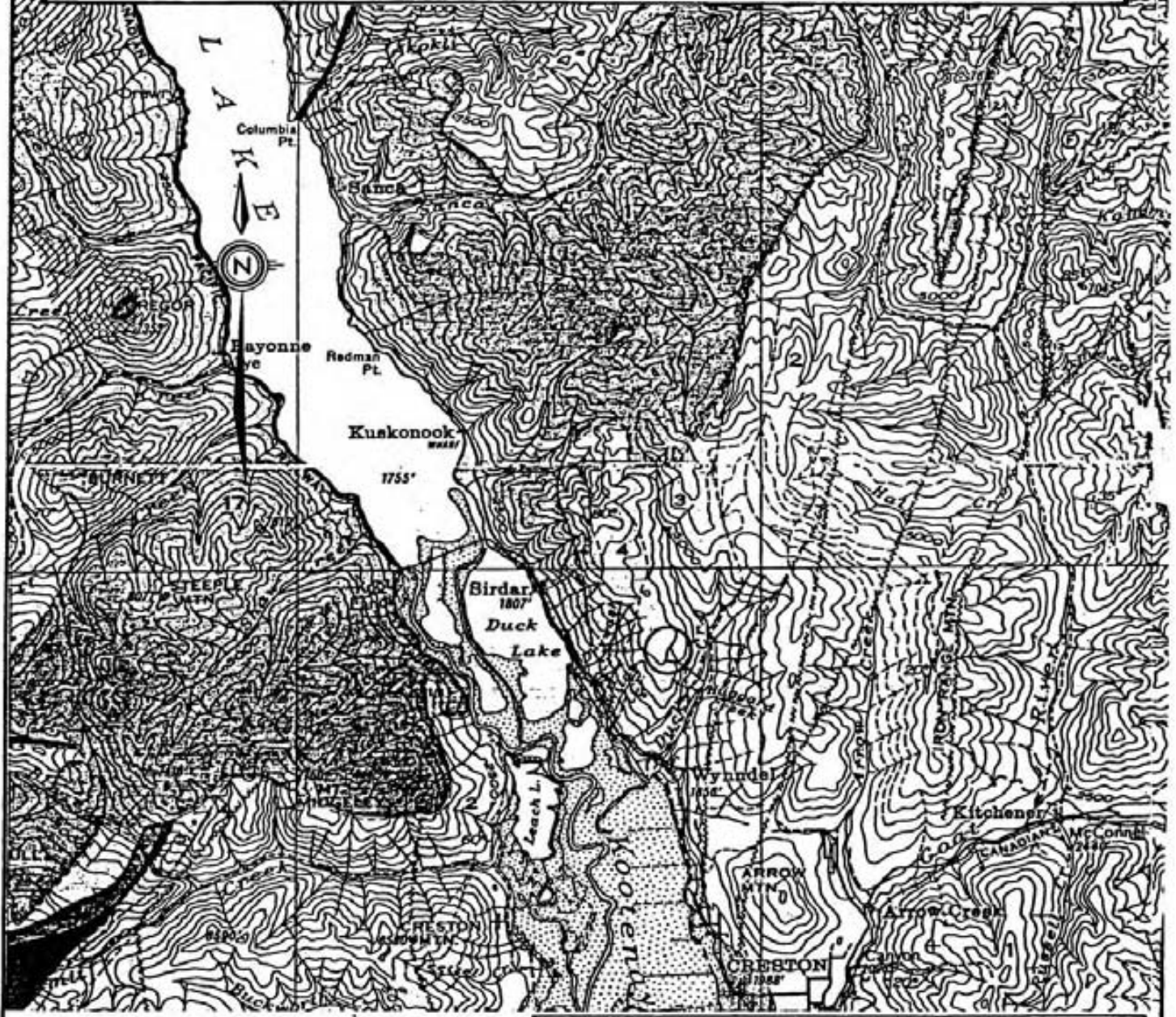
The claim area is underlain by sediments and metasediments of the Kitchener-Siyeh Formation, which forms part of the lower Purcell series of late Precambrian age. The Kitchener-Siyeh Formation is typified by varicoloured magnesian limestone, argillite and calcareous quartzite.

- 17 Chiefly granite, granodiorite & quartz diorite
- 12 CRANBROOK FORMATION: Siliceous, white rose, purple & gray quartzite & conglomerate
- 5 MT. NELSON FORMATION: Laminated argillite, magnesian limestone, quartzite
- 4 DUTCH CRK. FORMATION: Laminated argillite magnesian limestone, quartzite

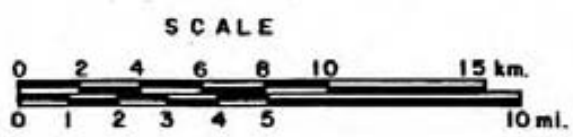
- 1 ALDRIDGE FORMATION: Gray, rusty, argillaceous quartzite & argillite
- 2 CRESTON FORMATION: Green, purple & argillaceous quartzite some argillite
- 3 KITCHENER-SIYEH FORMATION: Chiefly varicoloured magnesian limestone & argillite; calcareous quartzite
- CLAIMS LOCATION

UPPER PURCELL

LOWER PURCELL



AFTER: H.M.A. RICE (circa 1930)



H. TYSSSELAND		
REX MINERAL CLAIM		
REGIONAL GEOLOGY		
MONTGOMERY CONSULTANTS LTD.		
CHECKED: D.F.S.	SCALE: 1:250,000	FIG.
DATE: Aug. 10, 1984	DRAWN: D.W.	5-1

6.0 GEOCHEMICAL SURVEY

A total of 57 geochemical soil samples were taken on the REX mineral claim. Undisturbed sample sites were chosen and a prospector's mattock was used to sample the B horizon, which was generally well-developed in the claim area. Samples were placed in numbered kraft bags and sent to Min-En Laboratories Ltd., North Vancouver, B.C. for analysis.

Samples were analysed for Ag, Pb and Zn using nitric-perchloric digestion and atomic absorption. Sampling results are shown in Figure 6-1. For statistical purposes, the data from the REX mineral claim survey were grouped with a similar, larger data file from the JOHN 2 claim immediately to the northeast.

Examination of histograms for Ag, Pb and Zn for the grouped REX and JOHN 2 samples indicated that only Pb had two distinct lognormal populations. The Pb probability plot was partitioned and thresholds were found at 51.0 ppm and 47.0 ppm (see Figure 6-3). A total of 17 samples taken on the REX claim had values greater than 51.0 ppm. These anomalous samples are found in two zones, samples HT0001 to HT0014 (incl.) and HT0032 to HT0035 (incl.) respectively. A table of simple statistics follows:

REX and JOHN CLAIMS

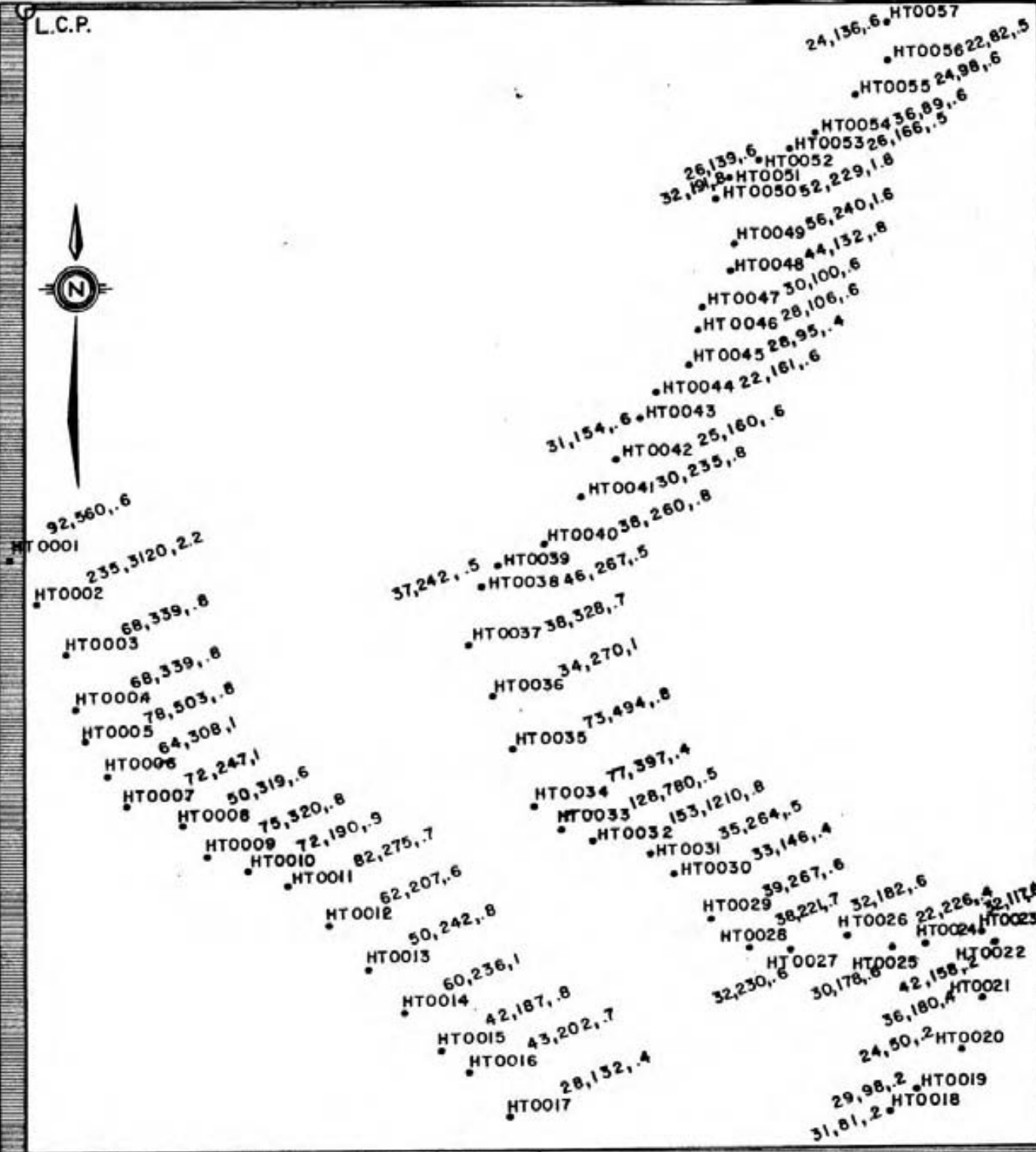
B4RT1

CRESTON, B. C.

SIMPLE STATISTICS

Element	n	Mean	Standard Deviation	Lowest Value	Highest Value	Coefficient of Variation
PB	730	37.2	26.4	14.0	385.0	.71
ZN	730	188.9	214.7	27.0	4176.0	1.14
AG	730	.9	.5	.1	9.4	.58

L.C.P.



LEGEND



H.TYSSELAND

REX MINERAL CLAIM

GEOCHEMICAL PLAN

MONTGOMERY CONSULTANTS LTD.

CHECKED: D.F.S.

SCALE: 1:5000

FIG.

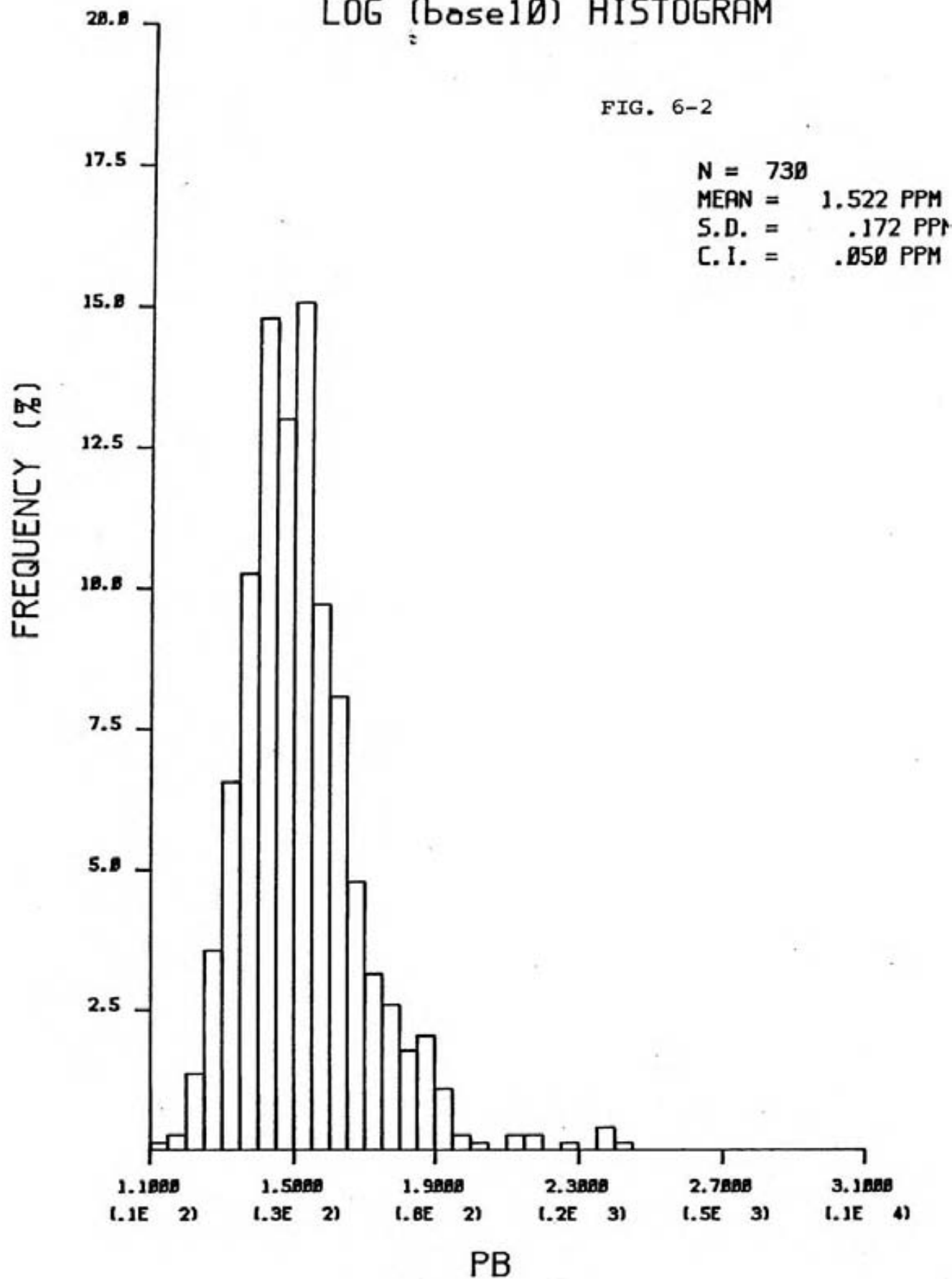
DATE: Aug. 10, 1984

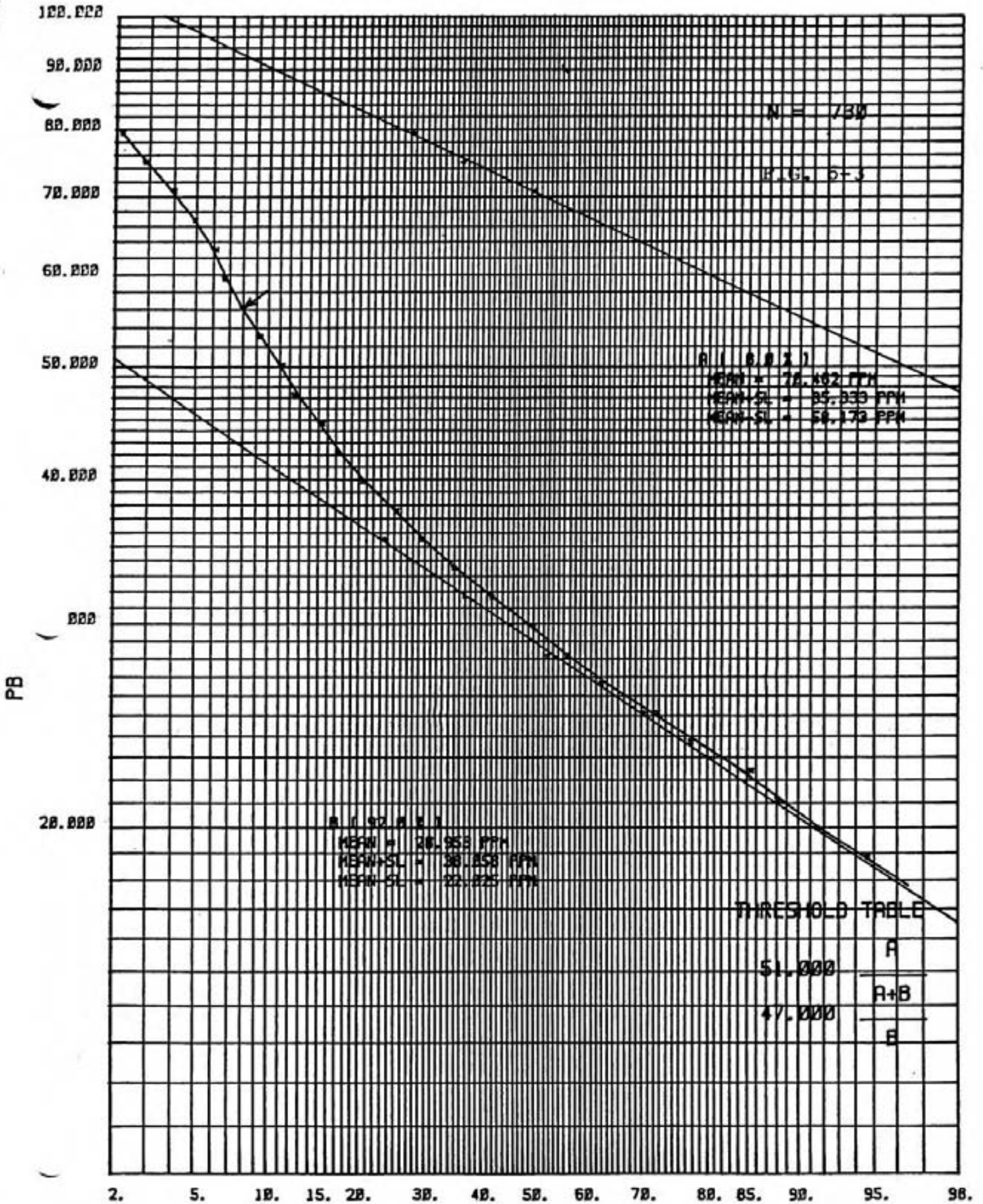
DRAWN: D.W.

6-1

LOG (base10) HISTOGRAM

FIG. 6-2





7.0 STATEMENT OF COSTSREX1. PERSONNEL

(a)	D.F. Symonds (B.Sc.Geology) (July 1-15, Aug.10, 1984)	- 2 days @ \$200	400.00
(b)	H. Tysseland (Apr.26-28, 1984)	- 2 days @ \$125	250.00
(c)	H. Grond (July 1-15, 1984)	-1.6 days @ \$150	240.00

2. TRANSPORATION

(a)	Vehicle use - FWD Truck	199.09
(b)	Mileage	31.00
(c)	Gas	52.00

3. ACCOMMODATION

(a)	Motel	65.00
(b)	Meals/Food	57.00

4. GEOCHEMISTRY

(a)	Analyses	304.81
(b)	Computer costs	50.00

5. REPORT PREPARATION

(a)	Data Analysis	123.75
(b)	Drafting	233.38
(c)	Typing/Administration	137.48
(d)	Supplies	75.25
(e)	Photocopies	36.47
(f)	Misc. (WCB coverage)	15.00

6. EQUIPMENT RENTAL

(a)	Camp equipment	20.00
(b)	Chainsaw	50.00

TOTAL: \$2,340.23

8.0 RECOMMENDATIONS

A systematic geochemical soil survey and preliminary geological mapping is recommended to be carried out over the REX mineral claim. A survey grid should be established with a baseline oriented @ 020° and cross-lines every 100 meters. Sample stations should be located every 25 meters on the cross-lines with samples analysed for Pb, Zn and Ag.

9.0 CERTIFICATE

I, Douglas F. Symonds, of #205 - 1160 W. 13th Ave., Vancouver, British Columbia do hereby certify that:

1. I am a Geologist and a graduate of the University of British Columbia (B.Sc.1972).
2. I have practiced my profession since 1972.
3. I have based the foregoing report on a study of all available reports and literature.
4. I have not, nor do I expect to receive any interest either direct, in any form, from the REX mineral claim property, owned by Mr. H. Tysseland of Vancouver, B.C.

DATED at Vancouver, British Columbia this 10th day of August, 1984.



D.F. Symonds
Geologist

APPENDIX I

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
 705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OF. (604) 980-4524

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: MONTGOMERY CONSULTANTS
 PROJECT: B4HT1
 ATTENTION: D. SYMONDS

FILE: 4-528/P13
 DATE: JULY 11/84
 TYPE: SOIL GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 30 samples submitted.

SAMPLE NUMBER	PB PPM	ZN PPM	AG PPM	FILE NAME	
H60416	35	118	1.4	JOHN	
17	29	105	1.0		
18	39	359	1.3		
19	34	147	1.0		
20	34	146	0.8		
21	38	186	1.6		
22	44	161	1.0		
23	31	225	1.6		
24	32	72	0.6		
25	33	135	1.0		
26	37	148	1.0		
27	34	269	1.2		
28	26	192	1.6		
29	25	155	0.8		
30	33	273	1.0		
31	36	195	1.6		
32	34	439	1.6		
33	36	294	0.9		
34	39	198	1.0		
35	38	154	1.0		
36	30	72	0.6		
37	28	129	1.0		
38	35	107	1.5		
39	26	96	1.4		
40	31	67	1.1		
H60441	24	90	1.0		JOHN ✓
HT0001	92✓	560	0.6		REX ✓
2	235✓	3120	2.2		
3	68✓	339	0.8		
HT0004	73✓	456	0.8	REX ✓	

Certified by 

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 985-4524

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: MONTGOMERY CONSULTANTS
 PROJECT: 84HT1
 ATTENTION: D. SYMONDS

FILE: 4-528/P14
 DATE: JULY 11/84
 TYPE: SOIL GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 30 samples submitted.

SAMPLE NUMBER	PB PPM	ZN PPM	AG PPM	FILE NAME
HT0005	78✓	503	0.8	REX
6	64✓	308	1.0	
7	72✓	247	1.0	
8	50	319	0.6	
9	75✓	320	0.8	
10	72✓	190	0.9	
11	82✓	275	0.7	
12	82✓	207	0.6	
13	50	242	0.8	
14	60✓	236	1.0	
15	42	187	0.8	
16	43	202	0.7	
17	28	132	0.4	
18	31	81	0.2	
19	29	98	0.2	
20	24	50	0.2	
21	36	180	0.4	
22	42	158	0.6	
23	32	117	0.6	
24	22	226	0.4	
25	30	178	0.6	
26	32	182	0.6	
27	32	230	0.6	
28	38	221	0.7	
29	39	267	0.6	
30	33	146	0.4	
31	35	264	0.5	✓
32	153✓	1210	0.8	
33	128✓	780	0.5	
HT0034	77✓	397	0.4	REX

Certified by



MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
 745 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEY: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: MONTGOMERY CONSULTANTS
 PROJECT: B4HT1
 ATTENTION: D. SYMONDS

FILE: 4-528/P15
 DATE: JULY 11/84
 TYPE: SOIL GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 30 samples submitted.

SAMPLE NUMBER	PB PPM	ZN PPM	AG PPM	FILE NAME
HT0035	73 ✓	494	0.8	REX
36	34	270	1.0	
37	38	328	0.7	
38	46	267	0.5	
39	37	242	0.5	
40	38	260	0.8	
41	30	235	0.8	
42	25	160	0.6	
43	31	154	0.6	
44	22	161	0.6	
45	28	95	0.4	
46	28	106	0.6	
47	30	100	0.6	
48	44	132	0.8	
49	56 ✓	240	1.6	✓
50	52	229	1.8	
51	32	191	0.8	
52	26	139	0.6	
53	26	166	0.5	
54	36	89	0.6	
55	24	98	0.6	
56	22	82	0.5	
57	24	136	0.6	REX
58	22	103	0.6	JOHN
59	24	130	0.6	
60	26	153	0.4	✓
61	30	159	0.6	
62	26	223	0.4	
63	29	111	0.5	
HT0064	28	118	0.5	JOHN

Certified by 