

004363

82K SW 1/24 - 07

PROPERTY FILE

GEOLOGICAL REPORT

on the
RB #1 MINERAL CLAIM
UPPER ARROW LAKE AREA
SLOCAN MINING DIVISION

117° 51' W Longitude: 50° 20' N Latitude
N.T.S. 82K/5W

on behalf of

OWNER: COLD LAKE RESOURCES INC.
OPERATOR: COLD LAKE RESOURCES INC.,

by

JAMES W. McLEOD, GEOLOGIST

July 20, 1979

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INTRODUCTION

During the period May 25-July 3, 1979 the writer supervised an exploration programme on the RB #1 mineral claim.

This report is being prepared at the request of the Directors of Cold Lake Resources Inc.

LOCATION AND ACCESS

The RB # 1 mineral claim is located on the western flank of Mt. Abriel, 13 kilometers north of the town of Nakusp, British Columbia.

Access to the property is gained by travelling north on Highway 23 from Nakusp, B.C. and then east on a bush road for approximately one kilometer.

PROPERTY AND OWNERSHIP

The RB #1 located mineral claim is comprised of 20 units in a 5 x 4 block.

The claim is held under option by Cold Lake Resources Inc. of Vancouver, British Columbia.

TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The property lies about Dunn Creek on the western flank of Mt. Abriel in steep mountainous terrain at elevations 540 - 1530 meters m.s.l.

The property is mainly conifer covered by hemlock and spruce. The area receives abundant precipitation.

HISTORY

The general area received early attention (1880-1890) in the search for placer gold.

The claim area has been described by Members of the Geological Survey of Canada, Open Files 432, 464 and 515.

GENERAL GEOLOGY

The claim area has been described as being underlain by amphibolite of the Kaslo group of late Paleozoic age contacting with the alkalic intrusives of the Kuskanex batholith of Late Jurassic age.

LOCAL GEOLOGY

Locally the claim area exhibited outcrops of amphibolite and quartzite gneiss (Kaslo group meta-sediments) and intrusive rocks varying in composition from leuco-monzonite to leuco-diorite-hornblendite and peridotite. The two major rock types were observed to contact in several locations (see Figure 3).

MINERALIZATION

The property afforded an interest in the potential occurrence of uranium-bearing rocks as indicated by apparently anomalous values being obtained in U_3O_8 by geochemical stream sediment sampling conducted by the Geological Survey of Canada, and subsequently by D. Tully, P.Eng., sample numbers 3076-1, 3076-2 and 3076-3. U(ppm) 7,2,9 Cu(ppm) 56, 37, 33. Analyses for copper and lead were thought to be worthwhile because of the underlying intrusive rocks. The only sulphide mineralization observed on the property was pyrite (see Figure 3).

WORK PROGRAMME

The exploration program undertaken during the period May 25-July 3 1979 included geological mapping, line installation, prospecting, scintillometer and magnetometer surveys and a geochemical soil sampling programme.

A total of approximately 35 kilometers of line installation and the accompanying magnetometer, scintillometer and geochemical soil surveys were completed (see Figure 3).

The scintillometer used has a Serial No. 211H3424.

The magnetometer used was a Geotronics, Model G-110, Serial No. 1001.

The magnetometer and scintillometer data are presented in tabular form in Appendix "A".

A total of 330 soil samples were obtained from the 'B' soil horizon. The samples were placed in kraft bags and subsequently analyzed at the Acme Analytical Laboratories Ltd in Vancouver, B.C. The samples were analysed on a spectrophotometer for copper and lead and the values are reported in ppm. (See Appendix "B").

The grid was not completed over the southeast portion of the claim because of the extreme steepness of the terrain.

CONCLUSIONS AND RECOMMENDATIONS

The geological mapping and prospecting did not uncover sulphide mineralization with the exception of several occurrences of pyrite mineralization, and no anomalous alteration occurrences were observed in the outcrops examined.

The magnetometer and scintillometer data exhibit very subtle variations which may indicate underlying rock type changes, but neither appear to offer anomalous concentrations which would indicate underlying mineralization.

The geochemical soil data in copper and lead does not indicate any anomalous areas of interest.

The writer does not recommend that further work be carried out on the property at this time.

COST OF PROGRAMME

<u>Wages:</u>	Supervisor 8 days at \$150/day	\$1,200.00
	Field Technician, 21 days at \$100/day	2,100.00
	Field Technician's assistant 2 days at \$90/day	1,890.00
	Helper 19 days at \$60/day	1,140.00
	Helper 3 days at \$60/day	180.00
	Food	1,015.09
	Room	705.21
	Transportation	1,611.65
	Instrument rental and engineering supplies	1,157.30
	Analyses	600.00
	Report and engineering	450.00
	TOTAL	\$12,049.25

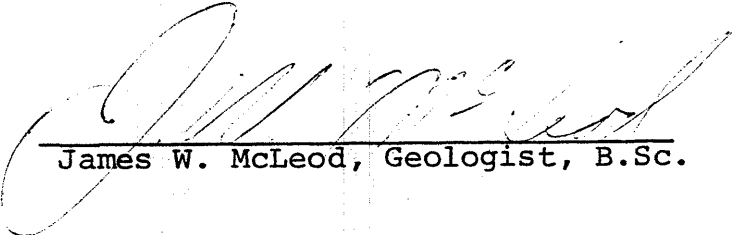
Respectfully submitted,


James W. McLeod, Geologist

CERTIFICATE

I, JAMES W. McLEOD, of the City of Vancouver,
Province of British Columbia, hereby certify as
follows:

1. I am a geologist and an Associate Member of the Geological Association of Canada.
2. I reside at 4086 West 17th Avenue, Vancouver, B.C.
3. I graduated in 1969 from the University of British Columbia, B.Sc., (Major-Geology).
4. I have practised my profession since 1969.
5. I have not, directly or indirectly, received or expect to receive any interest, direct or indirect in the property of the Company, or any affiliate nor do I beneficially own, directly or indirectly, any securities of the Company or any affiliate.
6. The above report is based upon field work performed during the period May 25th to July 3rd, 1979.



James W. McLeod, Geologist, B.Sc.

Dated at Vancouver, British Columbia, this 20th day of
July, 1979.

APPENDIX "A"

MAGNETOMETER AND SCINTILLOMETER DATA

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L 1N BL	56600	.002
2	56900	.003
L 3N BL	56240	.001
0+00 L9 South	55620	.003
0+00 BL 10	55430	.003
0+00 BL 11 North	54760	.003
12+00 North	56240	.003
13	53840	.002
14	53460	.002
0+00 BL 15+00 North	52780	.001
L-1 North 0+00	57580	.003
1	58810	.002
2	58500	.004
3	56700	.000
4	57080	.002
5	56700	.002
6	56420	.003
7	56440	.002
8	57200	.002
9	56760	.003
10	56280	.003
11	56860	.002
12	56560	.004
13	56500	.002
14	56600	.003
15	56700	.003
16	56860	.003
17	57100	.003
L-1 North 18+00	56800	.003
L-2 North 0+00 M	57720	.004
1	58580	.004
2	58860	.003
3	57910	.004
4	56580	.004
5	56260	.004
6	56500	.002
L-2 North 7+00 M	56420	.003

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-2 North 8+00 M	56180	.003
9	56040	.003
10	56340	.003
10+37 M	56400	.003
11	56500	.003
12	56360	.002
13	56360	.003
14	56340	.003
15	56340	.003
16	56500	.004
17	52200	.002
18	56200	.003
19	55840	.003
L-2 North 20+00	56900	.003
L-3 North 11+00	57180	.003
12	55960	.005
13	56880	.002
14	56840	.003
15	56200	.003
16	56130	.002
17	56140	.002
18	56180	.002
19	56360	.003
L-3 North 20+00	56240	.002
L-4 North 0+00 M	55860	.005
1 M	58170	.004
2 M	59720	.004
3 M	58040	.005
4 M	56880	.006
5	56740	.005
6 M	56880	.005
7 M	56940	.005
8 M	56500	.005
9 M	57080	.005
10 M	56960	.003
11 M	56800	.003
12 M	57000	.003
L-3 North 13+00M	57060	.003

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-4 North 14+00M	56780	.002
15	56900	.002
16	56800	.003
17	57080	.002
18	57100	.002
19	56500	.002
L-4 North 20+00M	57180	.002
L-6 North 0+00 M	55780	.003
1 M	57090	.002
2	53350	.003
3 M	57360	.003
4	57360	.003
5	57860	.002
6	56940	.002
7	56040	.003
8	56200	.003
9	56200	.002
10	56140	.002
11	56900	.002
12	56740	.001
13	56600	.003
14	57060	.002
15	57250	.002
16	55780	.003
17	56540	.002
18	55880	.003
19	57280	.003
L-6 North 20+00M	57300	.004
L-8 North 0+00 M	57060	.002
1 M	56410	.001
2 M	58340	.002
3 M	58000	.002
4 M	55640	.003
5	56700	.003
6	56840	.003
7	56840	.003
8 M	54460	.005
L-8 North 9+00	56670	.002

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-8 North 10+00	55100	.006
11	52710	.001
12	55500	.005
13	55300	.001
14	56500	.001
15	56600	.005
16	56200	.005
17	57760	.002
18	56200	.002
19	54700	.002
L-8 North 20+00	55540	.001
L-11 North 0+00	56680	.008
1		
2	56480	.007
3		
4	56500	.006
5		
6	55900	.007
7		
8	56760	.007
9		
10	55100	.005
11		
12	55560	.002
13		
L-11 North 14+00	54760	.003

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-9 CREEK	56140	.006
10	56500	.011
11	56150	.007
12	56200	.004
13	57200	.01
14	57000	.006
15	56600	.007
16	57000	.009
17	56600	.009
18	56700	.008
19	56700	.009
20	56100	.01
21	56340	.008
22	55940	.005
23	56600	.007
24	57020	.007
L- 25 CREEK	57160	.008
1370 Meters 1+00	56740	.007
1370 Meters 2+00	57000	.006
1370 Meters 3+00	57000	.005
1326 M 4+00	57000	.006
1275 M 5+00	57000	.005
L-1 South 10+00M		
11+00M		
L-1 South 11+40M		
L-3 South 0+00M	56240	.002
1	56360	.003
2	56180	.002
3	56140	.002
4	56130	.002
5	56200	.003
6	56840	.003
7	56880	.002
8	55960	.005
9	57180	.003
10	56710	.005
L-3 South 10+25M		

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-5 South 0+00M	56600	.003
1	57300	.004
2	57360	.003
3	56640	.003
4	56800	.005
5	57480	.002
6	56400	.002
7	56840	.004
8	56500	.004
9	56940	.004
10	56580	.004
11	56660	.004
12	56600	.006
13	56580	.005
14	56640	.007
15	56940	.004
16	56900	.004
17	56880	.004
18	58000	.003
19	57950	.004
L-5 South 20+00M	55530	.004
L-7 South 0+00M	57920	.003
1	55860	.002
2	51080	.004
3	56060	.004
4	55200	.003
5	54000	.002
6	52700	.002
7	59410	.002
8	58760	.001
9	58110	.002
10	58400	.005
11	60280	.002
12	60010	.002
13	59170	.004
14	59010	.003
15	58750	.003
L-7 South 16+00M	58860	.002

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L-7 South 17+00M	58680	.002
18	58980	.002
19	57950	.001
L-7 South 19+65	57330	.003
L-9 South 4+00	56300	.004
6	56020	.002
8	56380	.005
10	57000	.004
12	56540	.004
L-7 South 14+00	57200	.006
L10 South 4+00	55400	.005
6	55400	.003
8	55700	.005
10	57000	.005
12	56400	.003
L10 South 14+00	57300	.007
L12 South 1+00		
2	56600	.003
3		
4	56000	.006
5		
6	56640	.005
7	55310	.005
8	55500	.008
9	56300	.006
10	56400	.005
11		
12	56900	.009
13		
L12 South 14+00	56700	.006
L13 South 2+00	56070	.002
6	56680	.006
6	56060	.009
8	55940	.008
10	56300	.005
L12 South 13+00	56840	.008

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L13 South 14+00	57040	.007
L13 South 14+00	56700	.006
L14 South 2+00	56100	.002
4	55420	.007
6	55760	.01
8	56220	.008
10	56400	.007
12	56740	.007
L14 South 13+00	56460	.008
L15 South 2+00	55200	.003
4	55880	.01
6	56000	.012
8	56000	.009
10	55760	.007
L15 South 12+00	56650	.007
L16 South 0+00	51100	.001
2	55840	.003
4	56360	.006
6	55460	.01
8	56100	.009
10	56140	.006
L16 South 12+00	56700	.007
L17 South 0+00	54900	.002
2	55570	.002
4	57030	.008
6	56000	.012
8	55400	.007
L17 South 10+00	56460	.005
L18 South 0+00	55760	.002
2	55360	.003
4	55680	.006
6	54480	.007
8	55160	.007
L17 South 10+00	56400	.006

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L19 South 0+00	56220	.003
2	55300	.002
4	55350	.007
6	54400	.009
8	55320	.007
L19 South 10+00	56400	.008
L20 South 0+00	55420	.002
2	55030	.003
4	56140	.01
6	55960	.007
8	54740	.008
L20 South 10+00	56500	.008
L21 South 0+00	56400	.002
2	55220	.002
4	55780	.008
6	54820	.012
8	56400	.007
L21 South 10+00	56780	.004
L22 South 0+00	56600	.002
2	55340	.002
4	57720	.007
6	55140	.01
8	56800	.006
L22 South 10+00	55880	.005
L23 South 0+00	53580	.001
2	56640	.002
4	56900	.007
6	55960	.012
8	54950	.006
L23 South 10+00	55950	.006
L24 South 0+00	54740	.001
2	54640	.002
4	56540	.009
L24 South 6+00	55220	.007

STATION NO:	MAGNETOMETER	SCINTILLOMETER
L24 South 8+00	56000	.005
9	55600	.005
L24 South 10+00	56300	.005
L25 South 0+00	55860	.001
1	51760	.002
2	54940	.001
4	55750	.011
5	57230	.008
L25 South 6+00	54740	.006

APPENDIX "B"

GEOCHEMICAL ANALYSES (Cu & Pb)



To: Cold Lake Resources,
314 - 543 Granville St.,
Vancouver, B. C. V6C 1S8

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173
Type of Samples Soils
Disposition

GEOCHEMICAL ASSAY CERTIFICATE

1

SAMPLE No.	Cu	Pb																			
L 1N BL	4	17																			1
2	10	18																			2
L 3N BL	8	23																			3
																					4
0+00 L9 South	8	19																			5
0+00 BL 10	10	14																			6
0+00 BL 11 North	13	20																			7
12+00 North	12	12																			8
13	18	22																			9
14	8	33																			10
0+00 BL 15+00 North	7	16																			11
																					12
L-1 North 0+00	295	14																			13
1	8	10																			14
2	8	14																			15
3	36	14																			16
4	42	15																			17
5	140	15																			18
6	35	19																			19
7	405	17																			20
8	136	14																			21
9	47	20																			22
10	162	31																			23
11	36	36																			24
12	112	18																			25
13	11	18																			26
14	34	16																			27
15	19	21																			28
16	15	17																			29
17	38	12																			30
L-1 North 18+00	11	25																			31
																					32
L-2 North 0+00 M	14	19																			33
1	6	12																			34
2	14	7																			35
3	12	19																			36
4	10	17																			37
5	5	11																			38
6	43	25																			39
L-2 North 7+00 M	19	11																			40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED June 14, 1979

DATE REPORTS MAILED June 30, 1979

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.		Cu	Pb																		
L-2 North	8+00M	9	8																		1
	9	6	11																		2
	10	19	13																		3
	10+37M	11	19																		4
	11	15	12																		5
	12	33	14																		6
	13	11	9																		7
	14	8	14																		8
	15	14	18																		9
	16	29	9																		10
	17	114	10																		11
	18	12	16																		12
	19	15	21																		13
L-2 North	20+00	13	14																		14
																					15
L-3 North	11+00	21	15																		16
	12	42	12																		17
	13	18	11																		18
	14	19	19																		19
	15	13	12																		20
	16	11	10																		21
	17	N. S.																			22
	18	15	14																		23
	19	10	17																		24
L-3 North	20+00	8	17																		25
																					26
L-4 North	0+00M	8	21																		27
	1 M	10	25																		28
	2 M	36	11																		29
	3 M	11	23																		30
	4 M	14	22																		31
	5	7	16																		32
	6 M	14	26																		33
	7 M	27	25																		34
	8 M	12	24																		35
	9 M	10	22																		36
	10 M	17	19																		37
	11 M	9	20																		38
	12 M	13	21																		39
L-3 North	13+00M	12	19																		40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED June 14, 1979

DATE REPORTS MAILED June 30, 1979

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

3

SAMPLE No.		Cu	Pb																		
L-4 North	14+00M	52	17																		1
	15	12	16																		2
	16	7	17																		3
	17	12	15																		4
	18	29	16																		5
	19	20	15																		6
L-4 North	20+00M	16	22																		7
																					8
L-6 North	0+00M	11	25																		9
	1 M	134	17																		10
	2	45	11																		11
	3 M	5	12																		12
	4	9	18																		13
	5	14	7																		14
	6	9	7																		15
	7	46	15																		16
	8	11	17																		17
	9	22	13																		18
	10	32	14																		19
	11	19	10																		20
	12	46	10																		21
	13	86	13																		22
	14	40	13																		23
	15	11	12																		24
	16	12	13																		25
	17	26	18																		26
	18	7	15																		27
	19	33	17																		28
L-6 North	20+00M	15	15																		29
																					30
L-8 North	0+00M	17	7																		31
	1 M	57	22																		32
	2 M	28	15																		33
	3 M	68	11																		34
	4 M	9	9																		35
	5	31	19																		36
	6	10	16																		37
	7	9	15																		38
	8 M	25	14																		39
L-8 North	9+00	14	11																		40

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All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED June 14, 1979

DATE REPORTS MAILED June 30, 1979

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

0173

File No. _____

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

4

SAMPLE No.		Cu	Pb											
L-8 North	10+00	34	10											1
	11	26	21											2
	12	25	9											3
	13	88	14											4
	14	29	14											5
	15	47	17											6
	16	M	11	16										7
	17	M	7	17										8
	18		4	20										9
	19		5	16										10
L-8 North	20+00	7	7											11
														12
L-11 North	0+00	6	15											13
	1	5	14											14
	2	8	22											15
	3	13	14											16
	4	9	22											17
	5	7	15											18
	6	5	17											19
	7	10	27											20
	8	10	21											21
	9	6	20											22
	10	6	20											23
	11	7	10											24
	12	7	22											25
	13	5	13											26
L-11 North	14+00	6	16											27
														28
														29
														30
														31
														32
														33
														34
														35
														36
														37
														38
														39
														40

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DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED June 14, 1979

DATE REPORTS MAILED June 30, 1979

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

5

SAMPLE No.	Cu	Pb	
L - 9 Creek	31	14	1
10	23	12	2
11	34	13	3
12	190	9	4
13	27	21	5
14	188	15	6
15	4	15	7
16	11	17	8
17	4	18	9
18	6	16	10
19	5	16	11
20	6	22	12
21	5	16	13
22	4	20	14
23	5	38	15
24	3	15	16
L - 25 Creek	3	19	17
1370 Meters 1+00	3	9	19
1370 Meters 2+00	2	14	20
1370 Meters 3+00	4	14	21
1326 M 4+00	5	17	22
1275 M 5+00	5	16	23
L-1 South 10+00M	24	13	25
11+00M	29	18	26
L-1 South 11+40M	90	22	27
L-3 South 0+00M	8	10	29
1	96	12	30
2	154	13	31
3	8	22	32
4	7	19	33
5	12	22	34
6	110	27	35
7	7	13	36
8	104	11	37
9	9	24	38
10	7	17	39
L-3 South 10+25M	8	20	40

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File No. 0173

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.		Cu	Pb																		
L-5 South	0+00M	7	10																		1
	1	8	19																		2
	2	35	20																		3
	3	6	8																		4
	4	16	17																		5
	5	24	9																		6
	6	10	13																		7
	7	42	12																		8
	8	11	16																		9
	9	170	11																		10
	10	12	19																		11
	11	6	21																		12
	12	6	15																		13
	13	9	18																		14
	14	10	21																		15
	15	8	15																		16
	16	7	17																		17
	17	56	23																		18
	18	17	11																		19
	19	150	9																		20
L-5 South	20+00M	13	24																		21
																					22
L-7 South	0+00M	7	10																		23
	1	18	11																		24
	2	14	17																		25
	3	9	10																		26
	4	6	4																		27
	5	33	5																		28
	6	66	9																		29
	7	116	18																		30
	8	134	9																		31
	9	10	13																		32
	10	19	10																		33
	11	32	16																		34
	12	28	19																		35
	13	5	16																		36
	14	6	17																		37
	15	86	12																		38
L-7 South	16+00M	9	23																		39
																					40

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 ASSAYER Dean Toye
 DEAN TOYE, B.Sc.
 CHIEF CHEMIST
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File No. 0173

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

7

SAMPLE No.		Cu	Pb							
L-7 South	17+00M	10	10							1
	18	6	11							2
	19	140	13							3
L-7 South	19+65	16	16							4
										5
L-9 South	4+00	18	12							6
	6	19	12							7
	8	30	14							8
	10	16	9							9
	12	38	12							10
L-7 South	14+00	61	24							11
										12
L10 South	4+00	90	16							13
	6	47	11							14
	8	43	13							15
	10	42	11							16
	12	60	12							17
L10 South	14+00	2	11							18
										19
L12 South	1+00	9	21							20
	2	7	19							21
	3	11	28							22
	4	6	21							23
	5	9	18							24
	6	6	26							25
	7	7	27							26
	8	3	10							27
	9	14	24							28
	10	8	16							29
	11	9	21							30
	12	4	12							31
	13	9	24							32
L12 South	14+00	8	17							33
										34
L13 South	2+00	6	21							35
	6 (A)	4	18							36
	6 (B)	5	20							37
	8	5	18							38
	10	4	17							39
L12 South	13+00	5	23							40

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DETERMINATION:.....

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DATE REPORTS MAILED June 30, 1979

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

ACME ANALYTICAL LABORATORIES LTD.

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File No. 0173

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.		Cu	Pb																		
L13 South 14+00	(A)	3	16																		1
L13 South 14+00	(B)	4	11																		2
L14 South 2+00		4	21																		3
	4	6	27																		4
	6	8	12																		5
	8	5	19																		6
	10	5	15																		7
	12	4	17																		8
L14 South 13+00		4	14																		9
L15 South 2+00		9	16																		10
	4	5	19																		11
	6	4	23																		12
	8	8	21																		13
	10	4	18																		14
L15 South 12+00		4	15																		15
L16 South 0+00		8	16																		16
	2	5	20																		17
	4	5	21																		18
	6	4	20																		19
	8	5	25																		20
	10	2	24																		21
L16 South 12+00		2	10																		22
L17 South 0+00		8	20																		23
	2	5	18																		24
	4	3	18																		25
	6	2	14																		26
	8	4	16																		27
L17 South 10+00		6	15																		28
L18 South 0+00		7	19																		29
	2	5	16																		30
	4	5	24																		31
	6	6	20																		32
	8	3	16																		33
L17 South 10+00		5	18																		34
																					35
																					36
																					37
																					38
																					39
																					40

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 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED June 14, 1979
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 ASSAYER Dean Toye
 DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Cold Lake Resources Inc.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

9

SAMPLE No.		Cu	Pb																		
L19 South	0+00	7	26																		1
	2	4	25																		2
	4	4	22																		3
	6	4	18																		4
	8	3	13																		5
L19 South	10+00	4	16																		6
																					7
L20 South	0+00	3	16																		8
	2	2	20																		9
	4	3	24																		10
	6	2	17																		11
	8	3	10																		12
L20 South	10+00	3	11																		13
																					14
L21 South	0+00	2	12																		15
	2	3	19																		16
	4	N. S.																			17
	6	3	20																		18
	8	4	19																		19
L21 South	10+00	5	12																		20
																					21
L22 South	0+00	3	11																		22
	2	5	14																		23
	4	2	11																		24
	6	4	16																		25
	8	4	29																		26
L22 South	10+00	12	25																		27
																					28
L23 South	0+00	2	12																		29
	2	1	10																		30
	4	N. S.																			31
	6	3	15																		32
	8	1	8																		33
L23 South	10+00	4	17																		34
																					35
L24 South	0+00	4	17																		36
	2	3	20																		37
	4	2	14																		38
L24 South	6+00	8	22																		39
																					40

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DETERMINATION:.....

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ASSAYER

Dean Toye

DEAN TOYE, B.Sc.
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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 0173

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

10

SAMPLE No.	Cu	Pb																			
L24 South 8+00	2	4																			1
9	3	15																			2
L24 South 10+00	3	15																			3
																					4
L25 South 0+00	4	27																			5
1	6	21																			6
2	5	13																			7
4	3	10																			8
5	5	17																			9
L25 South 6+00	2	7																			10
																					11
																					12
																					13
																					14
																					15
																					16
																					17
																					18
																					19
																					20
																					21
																					22
																					23
																					24
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																					40

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ASSAYER Dean Toye

DEAN TOYE, B.Sc.
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CERTIFIED B.C. ASSAYER

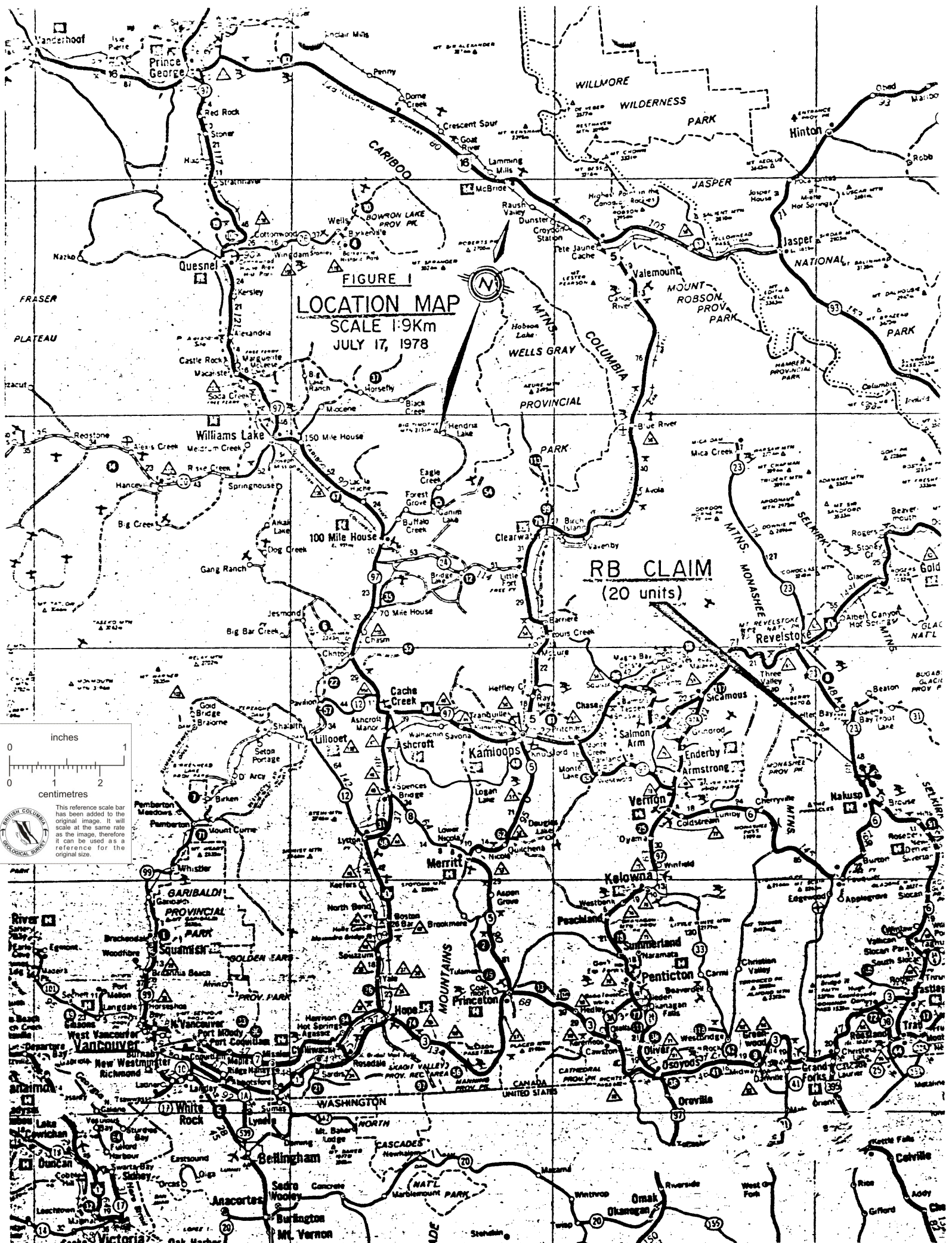
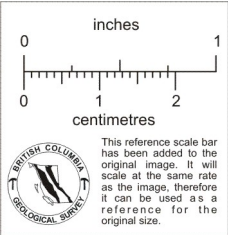


FIGURE 1
LOCATION MAP
 SCALE 1:9Km
 JULY 17, 1978

RB CLAIM
 (20 units)



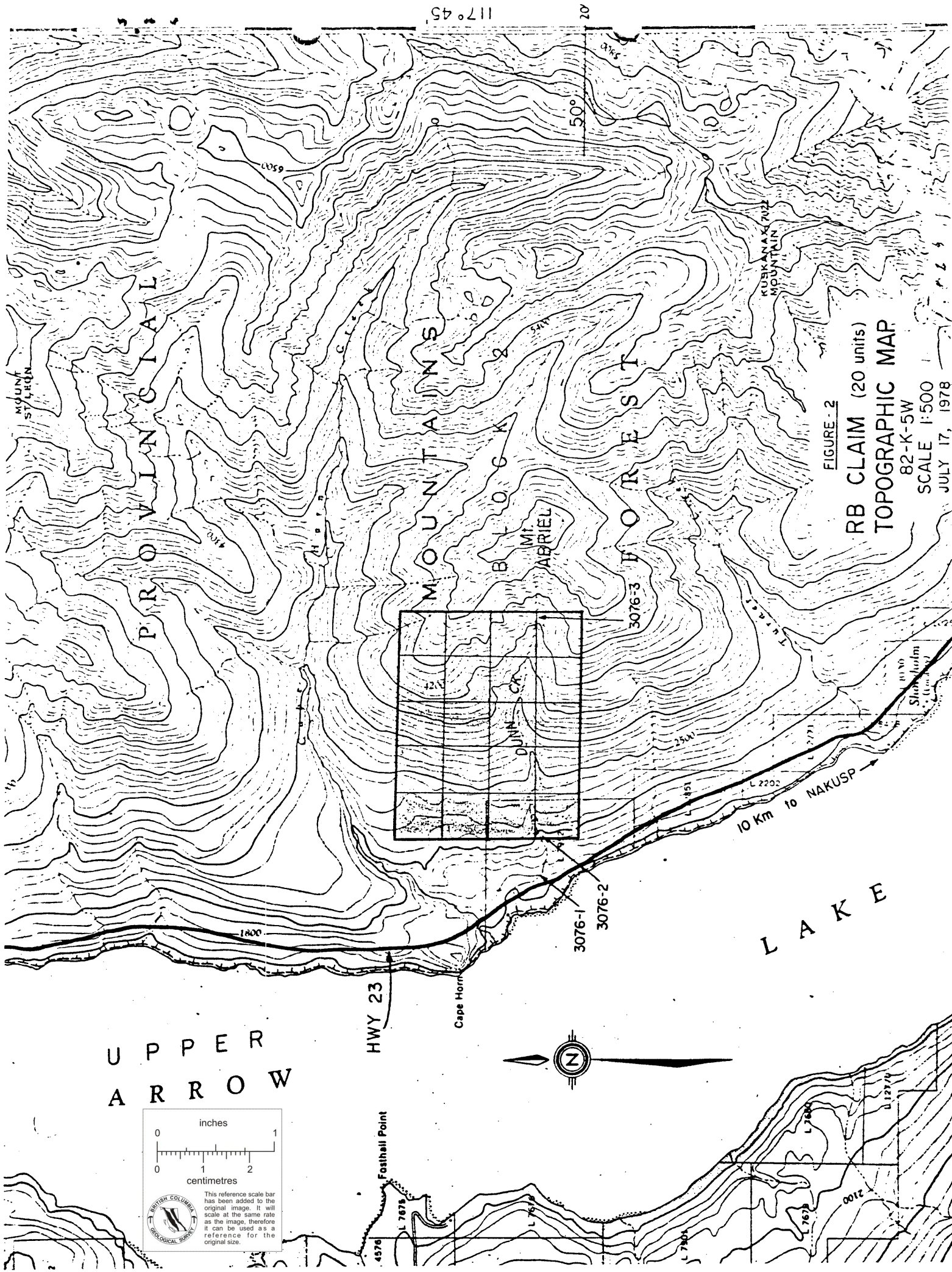
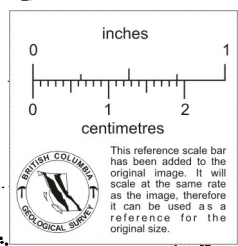


FIGURE 2
 RB CLAIM (20 units)
 TOPOGRAPHIC MAP
 82-K-5W
 SCALE 1:500
 JULY 17, 1978

UPPER
 ARROW



LAKE

HWY 23

Cape Horn

Fosthall Point

10 Km to NAKUSP

117°45'

20'

50°

MOUNT STATION

PRORVINCHIAL

MOUNTAINS

MT. ABRIEL

BLOCK 2

FOREST

KUSHANAKI MOUNTAIN

DUNN CA.

3076-1

3076-2

3076-3

3076-4

Stokholm



R3 1 claim

82R/5W

Report by D.W. Tully
July, 1978

REPORT

ON THE

RB #1 CLAIM PROPERTY [20 UNITS]

82R/5W-124

UPPER ARROW LAKE AREA

SLOCAN MINING DIVISION

NAKUSP, BRITISH COLUMBIA

W. Long. 117°51'

N. Lat. 50°20'

For

DR. S. DYAKOWSKI
1740 Davie Street
Vancouver, British Columbia

By

DONALD W. TULLY, P. ENG.

July 17, 1978

West Vancouver, B.C.

DON TULLY ENGINEERING LTD.
SUITE 102 - 2222 BELLEVUE AVENUE
WEST VANCOUVER, BRITISH COLUMBIA
V7V 1C7

PROPERTY FILE

COLD LAKE RESOURCES INC.

Notes
30th September, 1978

1. It is the company's accounting policy to capitalize the acquisition costs of mining properties and defer related exploration costs until such time as the property is brought into production or abandoned. The costs will be amortized over the useful life of the orebody following commencement of production or written off if the property is abandoned.
2. As at 30th September, 1978, the company holds the following mineral claims:

(a) Kas and San

The Kas and San mineral claims consist of 5 units and 4 units respectively and are situate in the Greenwood Mining Division, Province of British Columbia. The mineral claim was acquired on 31st July, 1978 for the sum of \$3,000 and 750,000 escrow shares with a deemed value of \$.01 per share from the president of the company.

(b) RB #1

The RB #1 mineral claim consists of 20 units situate in the Slocan Mining Division, Nakusp, Province of British Columbia. The mineral claim was acquired on 15th July, 1978 for the sum of \$2,500.

3. Share capital-issued

	<u>Shares</u>	<u>Issued Value</u>	<u>Net</u>
For cash			
Subscriber share	1	\$ 1.00	\$ 1
July, 1978	150,000	.10	15,000
For mineral claim	<u>750,000</u>	Note 2(a)	<u>7,500</u>
	<u>900,001</u>		<u>\$22,501</u>

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SUMMARY AND CONCLUSIONS.....	1
PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY...	2
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HISTORY - PREVIOUS DEVELOPMENT.....	4
REFERENCES.....	4
GEOLOGY AND MINERALIZATION.....	5
RECOMMENDATIONS.....	6
ESTIMATED COSTS OF THE RECOMMENDED WORK PROGRAM.....	7
CERTIFICATE.....	10
ASSAY CERTIFICATE.....	[End of Report]

MAPS

Figure 1 - LOCATION MAP.....	[Frontispiece]
" 2 - TOPOGRAPHIC MAP.....	[Following page 1]
" 3 - CLAIM MAP.....	[Following page 2]
" 4 - GEOLOGICAL MAP.....	[Following page 4]

* * * * *

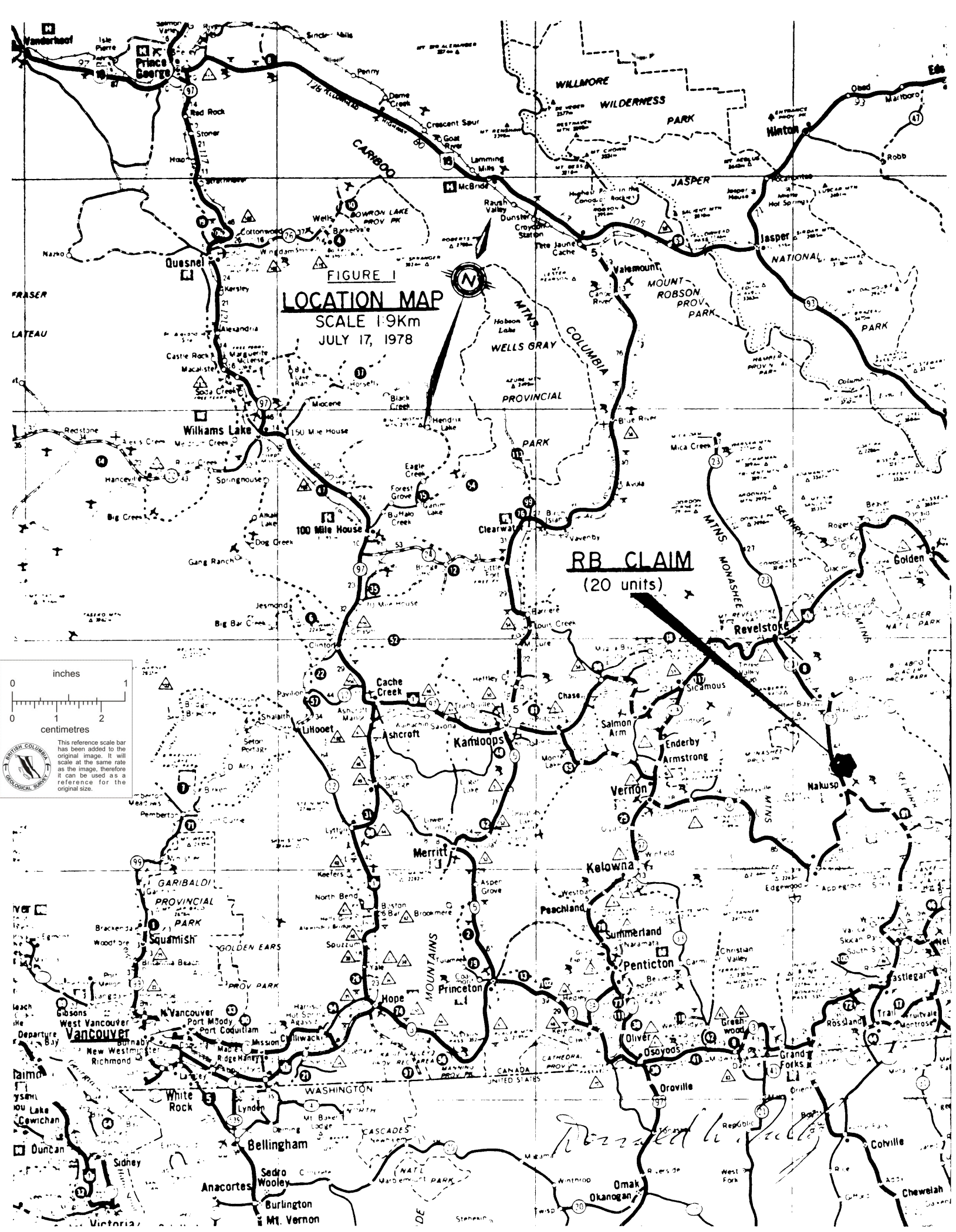
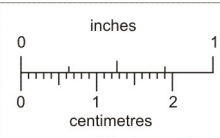


FIGURE 1
LOCATION MAP
SCALE 1:9Km
JULY 17, 1978

RB CLAIM
(20 units)



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



INTRODUCTION

This report was prepared pursuant to a request for Dr. Stefan Dyakowski, 1740 Davie Street, Vancouver, British Columbia.

The purpose of the report is to evaluate the mineral potential of the RB claim property. It is based on a field examination made on July 3-4, 1978 in company with Messrs. Uno and Heino Leis.

A program of mineral exploration work is recommended.

SUMMARY AND CONCLUSIONS

The RB claim property is a uranium-copper prospect. It comprises twenty contiguous units for a total area of 500 hectares [1,238 acres]. The property is located about thirteen kilometres north of Nakusp, British Columbia, on the east side of Upper Arrow Lake and highway #23 [Figure 1]. The claimed ground rises steeply towards the east. Dunn Creek traverses the property towards the west.

Granitic intrusives belonging to the Kuskanex batholith underlie all but the extreme west side of the property. A few outcrops of diorite and hornblende phases of the intrusive complex were noted in the north-east sector of the ground.

Indications of significant radioactivity were noted at several locations while traversing the perimeter

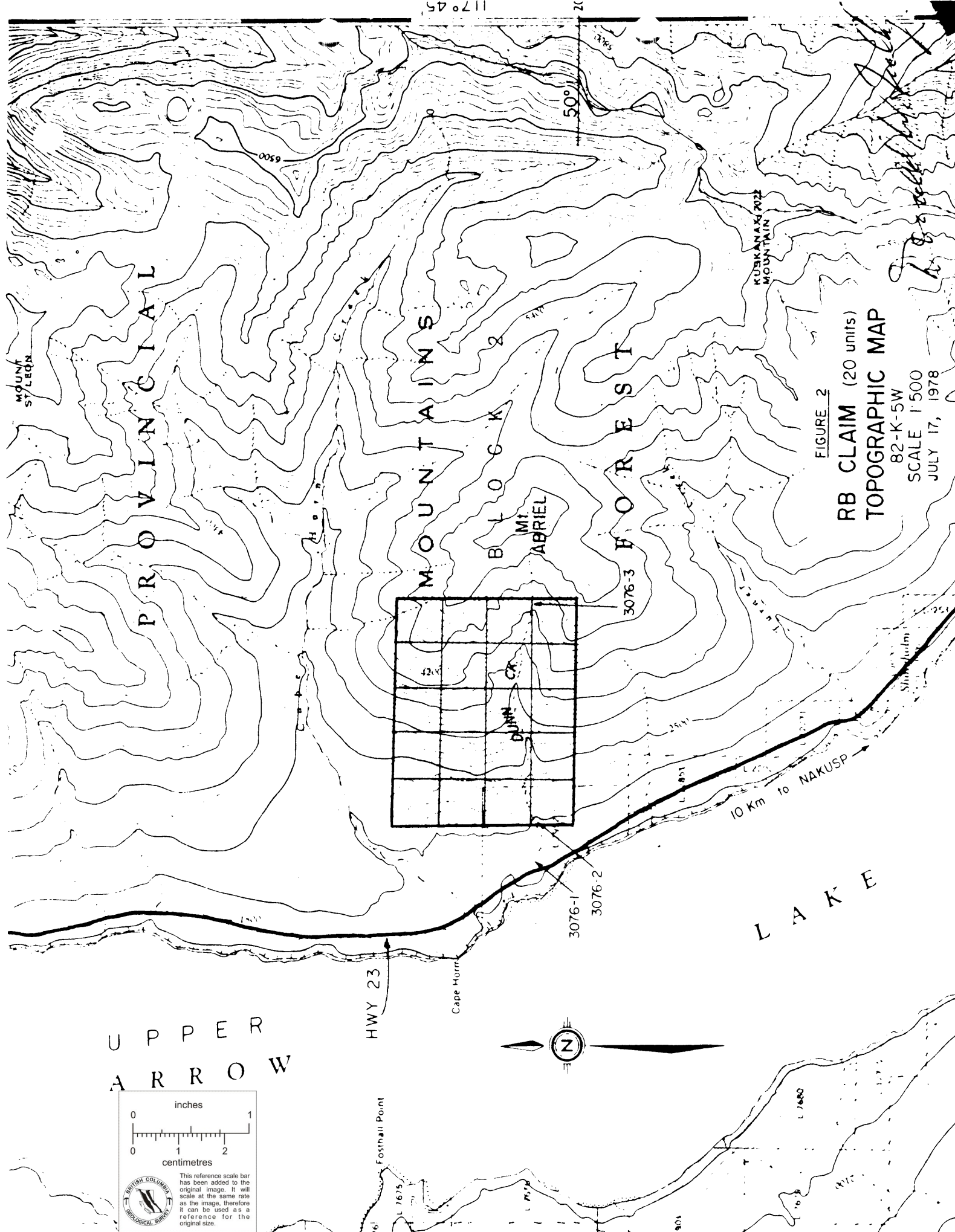
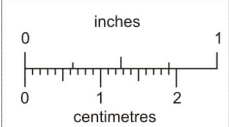


FIGURE 2
 RB CLAIM (20 units)
 TOPOGRAPHIC MAP
 82-K-5W
 SCALE 1:500
 JULY 17, 1978

UPPER
 ARROW



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



of the staked ground. Some of the higher readings were noted in the area of rock outcrops. This is encouraging as much of the property is covered with a mantle of overburden.

A small pit was found showing fine pyrite and minor chalcopyrite on the south boundary of the property at the end of a bush road leading east from highway #23 on the north bank of Dunn Creek.

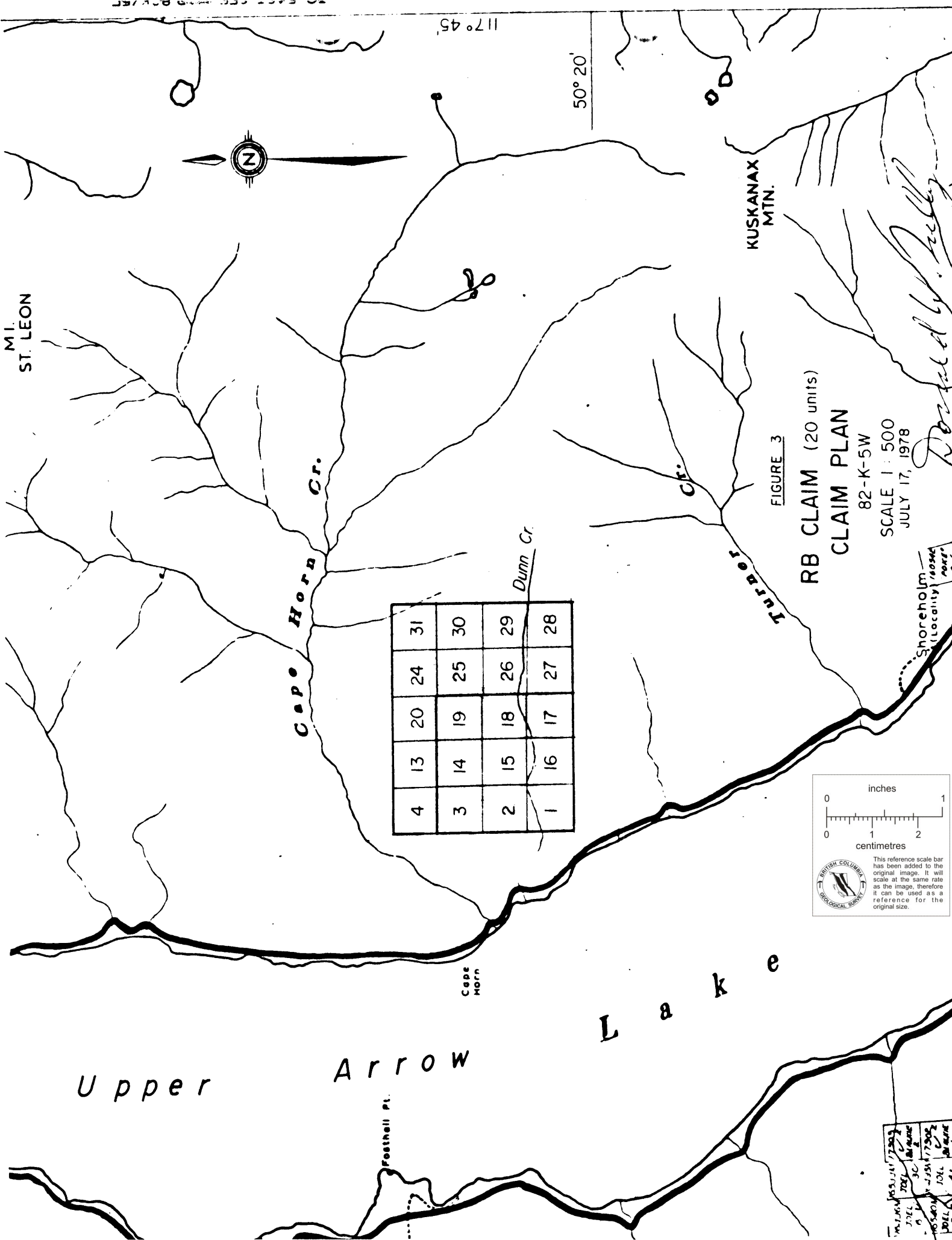
Two stream sediment samples were taken where the east and west claim lines cross Dunn Creek. Significant results in uranium and copper were obtained.

During the field examination there was a lack of evidence of intensive previous exploration activity on this ground. It is concluded the property warrants an investigation by radiometric, magnetometer, geochemical, and geological surveys to assess the relative merit of the mineral potential.

A two-stage program of mineral exploration is recommended to explore the RB claim at an estimated cost of \$64,000.00. The initial Phase 1 stage is estimated to cost \$19,220.76 and followed by an engineering evaluation before proceeding to Phase 2 of the proposed exploration program.

PROPERTY - LOCATION, ACCESS AND PHYSIOGRAPHY

The RB claim property comprises 20 units for a total area of 1,235 acres or 500 hectares in the Slocan Mining Division [Figure 2]. The ground is located some thirteen kilometres north of Nakusp, British Columbia on



M.I.
ST. LEON

117° 45'

50° 20'



KUSKANAX
MTN.

Cape Horn Cr.

Cr.

Dunn Cr.

Turner

4	13	20	24	31
3	14	19	25	30
2	15	18	26	29
1	16	17	27	28

FIGURE 3

RB CLAIM (20 units)
CLAIM PLAN

82-K-5W
SCALE 1 : 500
JULY 17, 1978

Designed by J. Peckley

Shoreholm
Locality 10000

inches

centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

Upper

Arrow

L a k e

Cape Horn

Footfall Pt.

1053	1054	1055	1056
1057	1058	1059	1060
1061	1062	1063	1064
1065	1066	1067	1068
1069	1070	1071	1072

the east side of Upper Arrow Lake and highway #23. A bush road suitable for 4-wheel drive provides access to the ground, a road distance of about one-half mile from the highway. It is estimated that some 95% of the property is covered with a mantle of overburden.

Physiographically the ground lies on the west slope of Mt. Abriel and is drained westward by Dunn Creek [Figure 2]. Mt. Abriel is shown on Geological Survey of Canada Open File Map 432 and is part of the chain of mountains lying between Mt. St. Leon on the north and Kuskanex Mountain to the southeast in the Selkirk Mountain Range. Elevations over the property vary from 1,900 feet on the west boundary up to 5,100 feet above sea-level on Mt. Abriel.

Timber is plentiful over the ground and is chiefly hemlock, fir, spruce and softwoods.

Ample water is available for any foreseeable needs in Dunn Creek.

Hydro-electric power is available at Nakusp.

CLAIM

The RB claim is recorded in the Slocan Mining Division at Kaslo, British Columbia [phone 353-2338] as follows:

Claim Name	Date Recorded	Record Number	Number of units	Claim Tag #	Name of Recorded Holder
RB #1	July 7/78	729[7]	20	38435	Heino Leis

The RB claim is shown on British Columbia Ministry of Mines and Petroleum Resources claim map M82-K-5w [Figure 3].

HISTORY - PREVIOUS DEVELOPMENT

Walker, Bancroft, Cairnes and Gunning have mapped and reported on the area along the east side of Upper Arrow Lake in the period 1928-1934. Wheeler and Read did similar work in the 1962-65 time frame and Read compiled the work between 1971 and 1976. The Geological Survey of Canada covered the area by a program of stream-sediment silt sampling in 1977. Prospecting in the general area began essentially in 1880-1890 period mostly in search of placer gold. The area was listed as the Arrow Lake Mining Division until 1942 when this area was placed in the Slocan Mining jurisdiction.

The writer observed little evidence of previous development work on the property during the field examination. Occasional small test pits were encountered and these were mostly re-filled as a result of caving over a long period of time.

REFERENCES

The following publications have information pertinent to the general area occupied by the RB claim:

1. B.C. Minister of Mines Annual Report for 1888, p. 301.
2. Geological Survey of Canada Summary Report for 1928 and Map 232A.
3. Geological Survey of Canada Memoir 161 and Map 235A.

4. Geological Survey of Canada Open File Reports 432, 464 and 515.
5. N.T.S. Topographic Map 82-K-5w.
6. B.C. Ministry of Mines and Petroleum Resources mineral claim map M82-K-5w.

GEOLOGY AND MINERALIZATION

Various phases of the alkalic Kuskanex batholith underlie the RB claim property. Three lithologic rock units were noted during the field examination.

<u>Formation</u>	<u>Age</u>
Leuco-monzonite	Late Jurassic
Diorite-hornblendite	
Amphibolite	Late Paleozoic

The monzonite, diorite and hornblendite belong to the Kuskanex batholithic complex. The amphibolite is considered to be a phase of the Kaslo group of sediments foliated and metamorphosed along the margin of the batholith [Figure 4].

Mineralization in the form of fine pyrite and minor chalcopyrite were noted in a north striking shear in a small test pit at the end of the bush road where the west boundary of the property crosses Dunn Creek. The dip is eastward into the RB claim.

Scintillometer readings up to 46 cycles per second were found in the northeast sector of the property. Similar results were also found in the southeast portion of the property. The low readings of 16 - 20 cycles per second are considered to be average for the areas traversed during the

field examination.

Stream sediment samples were taken. One of these was taken near highway 23 to check on Geological Survey of Canada sample 3076. The remaining two stream sediment samples were taken from Dunn Creek where the east and west boundaries cross this stream as shown on Figure 2. The results were as follows:

	<u>U₃O₈ [ppm]</u>	<u>Copper [ppm]</u>
3076 - 1	7	56
- 2	2	37
- 3	9	33

The background for Uranium [U₃O₈] is considered to be 2 ppm and 20 ppm for copper.

RECOMMENDATIONS

A two-phase program of exploration is proposed to explore the RB claim property. An engineering evaluation is recommended before proceeding to the second phase of exploration.

Phase I:

Because of the variation in radiometric response encountered during the field examination and the encouraging results from the stream sediment samples, it is recommended the property be tested by radiometric, magnetometer, geochemical soil sampling and geological surveys. Radiometric surveying using a sensitive scintillometer will without doubt show anomalous areas. Magnetic minerals in the few outcrops of diorite and hornblende will in all probability show magnetically anomalous zones. Geochemical soil sample testing should include assaying for copper

and molybdenum because of the intrusive character of the underlying basement rock, as well as uranium, lead and zinc. Geological mapping is proposed to determine as far as possible the underlying geologic structures and in addition possibly provide interpretative value for any anomalous zones that may be encountered.

ESTIMATED COSTS OF THE RECOMMENDED WORK PROGRAM

Phase I:

1. Layout a survey control over the property on a grid pattern of 100 metres. The property is 2,500 metres long east-west and 2,000 metres north-south under the Modified Grid System in effect in British Columbia. There are 546 stations to be laid out along 50 km of line. Access to the steep eastern sector of the property is contemplated by the use of a trailbike.
Grid layout - [50 km x \$45/km including trailbike rental]..... \$2,250.00
 2. Radiometric survey using a sensitive scintillometer including instrument rental costs [546 grid stations x \$3.50/station]..... 1,911.00
 3. Magnetometer survey including instrument rental cost [546 x \$3.00/station]..... 1,638.00
 4. Geochemical soil survey \$2.50/soil sample at each grid station [546 x \$2.50]..... 1,365.00
 5. Assaying geochemical soil samples for uranium, copper, molybdenum, lead and zinc @ \$6.05 per total sample [546 x \$6.05].... 3,303.30
- Carried Forward.....\$10,467.30

	Brought Forward	\$10,467.30
6.	Geologic mapping @ \$40/line km [50 km x \$40].....	2,000.00
7.	Camp costs for 3 men @ \$20.00/day x 30 days.....	1,800.00
8.	Engineering evaluation - map drafting - result evaluation - report.....	1,750.00
9.	Contingency @ 20% of above cost total to cover administration, mobiliza- tion, demobilization and unforeseen costs.....	3,203.46
		<hr/>
	Phase I - Estimated Total Cost [Brought forward]	\$19,220.76

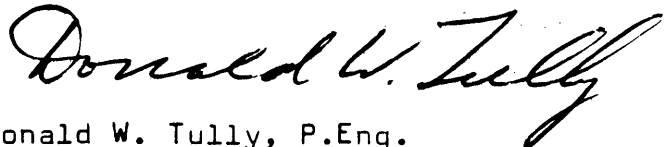
After the results of Phase I have been evaluated and all factors point to a continuation of mineral exploration, it is proposed that the follow-up program be a diamond drill test.

Phase II:

Assuming at least one anomalous area of 250 x 250 metres or equivalent dimension, it is suggested such a zone would require possibly 1,500 feet of diamond drill testing or say five holes each of three hundred feet in depth. The cost to perform this work is estimated as follows:

	Carried Forward	\$19,220.76
1.	Mobilization and demobilization	\$ 1,500.00
2.	Road access to drill sites [say 3 km]	1,500.00
3.	1,500 feet BQ wireline diamond drilling at an overall con- tract price of \$21.00/foot	31,500.00
4.	Core-splitting, assaying, super- vision, administration and engineering	3,000.00
5.	Cost contingency at 20% of above total	<u>7,500.00</u>
	Phase II - Estimated Total Cost	<u>\$45,000.00</u>
	Estimated Total of Phases I and II	<u><u>\$64,220.76</u></u>

Respectfully submitted,



Donald W. Tully, P.Eng.

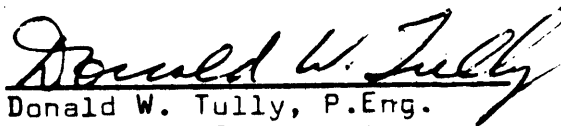
July 17, 1978

CERTIFICATE

I, DONALD WILLIAM TULLY, of the City of West Vancouver, Province of British Columbia hereby certify as follows:

1. I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, B.C.
2. I am a registered Professional Engineer of the Provinces of British Columbia and Ontario.
3. I graduated with a degree of Bachelor of Science from McGill University in 1943.
4. I have practiced my profession for thirty-two years.
5. I have no direct, indirect or contingent interest in the RB claim, nor do I intend to have any interest.
6. This report, dated July 17, 1978, is based on a personal field examination made on July 3-4, 1978 and from information gathered from available published maps and reports.

DATED at West Vancouver, Province of British Columbia, this 17th day of July, 1978.


Donald W. Tully, P.Eng.
Consulting Geologist



July 7, 1978 72-(7)

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 West Vancouver, B.C.
 V7V 1C7

CERTIFICATE OF ASSAY

No.: **7807-0551A** DATE: **July 13/78**

I certify that the following are the results of assays on: **Soil**

MARKED	XXXX		Uranium	Copper	XXX	XXX	XXX	XXX
			U (ppm)	Cu (ppm)				
3076 - 1			7	56				
3076 - 2			2	37				
3076 - 3			9	33				

REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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R. Nadeau
R. NADEAU, Chemist

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