

4817

FRIENDLY LAKE PROPERTY
FL CLAIM GROUP
KAMLOOPS MINING DIVISION

927/9W

N.T.S. 92-P-9
51° 35'N; 120° 27'W

1973 GEOCHEMICAL REPORT

BY

W. J. HILL

December, 1973

Imperial Oil Limited
500 - 6th Avenue S.W.
Calgary, Alberta
T2P 0S1

Department of
Mines and Technical Resources
Assessment Report
NO. 4817 No. P.

1187



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SUMMARY

The Friendly Lake property, which consists of 149 full-sized claims (FL #1-149), is located at Latitude 51°35'N, Longitude 120°27'W, 15 miles northwest of Little Fort, British Columbia. The property can be reached from Little Fort by following Highway #24 (Bridge Lake Road) for 12 miles, then northward by logging road past Meadow Lake to the property. Total distance to the central portion of the property is approximately 25 miles.

A total of 967 soil samples were collected on the property during the 1973 field season and analyzed for copper, lead, zinc, silver and molybdenum. Anomalous copper geochemical values are widespread over the entire property, while lead, zinc, and molybdenum generally give only scattered anomalous areas. Silver geochemical values are difficult to analyze and do not show any anomalous areas.



INTRODUCTION

GENERAL STATEMENT

During the 1973 field season, a total of 1,175 soil samples were collected within the Friendly Lake claim group area, of which a total of 967 were collected on the FL property. These were all collected along cut lines at an interval of 200 feet and generally numbered consecutively from 7000 to 8241. The results of this geochemical program are compiled and discussed in the text of this report.

LOCATION & ACCESS

The Friendly Lake property is located at latitude 51°35'N; longitude 120°27'W, 16 miles northwest of Little Fort, British Columbia. Access to the property is via Highway #24 west from Little Fort for 12 miles, then north along the logging road of the Fademar Logging Company for about 8 miles, and continuing for another 6 miles or so along a dirt road to Friendly Lake. A four-wheel drive vehicle is advisable in wet weather conditions.

PREVIOUS WORK

Old claim posts in the district testify to early prospecting activity but none of these were recorded. The Geological Survey of Canada mapped the area in 1963-1965 and this was followed by a burst of prospecting activity.

Anaconda American Brass Limited staked hundreds of claims in various parts of the district with their main interest centralizing around three small syenite bodies north and west of Friendly Lake. Anaconda performed geological mapping, geochemical and geophysical surveying, trenching and diamond drilling over much of their claim groups. The company still holds seven mineral claims north of Friendly Lake.



FL45	FL46	FL47	FL48	FL49	FL50	FL51	FL52	FL53	FL54
FL55	FL56	FL57	FL58	FL59	FL60	FL61	FL62	FL63	FL64
FL65	FL66	FL67	FL68	FL69	FL70	FL71	FL72	FL73	FL74
FL75	FL76	FL77	FL78	FL79	FL80	FL81	FL82	FL83	FL84
FL85	FL86	FL87	FL88	FL89	FL90	FL91	FL92	FL93	FL94
FL95	FL96	FL97	FL98	FL99	FL100	FL101	FL102	FL103	FL104
FL105	FL106	FL107	FL108	FL109	FL110	FL111	FL112	FL113	FL114
FL115	FL116	FL117	FL118	FL119	FL120	FL121	FL122	FL123	FL124
FL125	FL126	FL127	FL128	FL129	FL130	FL131	FL132	FL133	FL134
FL135	FL136	FL137	FL138	FL139	FL140	FL141	FL142	FL143	FL144
FL145	FL146	FL147	FL148	FL149	FL150	FL151	FL152	FL153	FL154
FL155	FL156	FL157	FL158	FL159	FL160	FL161	FL162	FL163	FL164
FL165	FL166	FL167	FL168	FL169	FL170	FL171	FL172	FL173	FL174
FL175	FL176	FL177	FL178	FL179	FL180	FL181	FL182	FL183	FL184
FL185	FL186	FL187	FL188	FL189	FL190	FL191	FL192	FL193	FL194
FL195	FL196	FL197	FL198	FL199	FL200	FL201	FL202	FL203	FL204



THE 'FL' GROUP
KAHLOOPS H.D.

- GROUP 1
- GROUP 2
- GROUP 3
- GROUP 4

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **4817** Map # **2**

SCALE - METERS
0 50

Lost Horse L.

Friendly L.

FL87	FL88	FL89	FL90	FL91	FL92	FL93	FL94	FL95	FL96
FL97	FL98	FL99	FL100	FL101	FL102	FL103	FL104	FL105	FL106
FL107	FL108	FL109	FL110	FL111	FL112	FL113	FL114	FL115	FL116
FL117	FL118	FL119	FL120	FL121	FL122	FL123	FL124	FL125	FL126
FL127	FL128	FL129	FL130	FL131	FL132	FL133	FL134	FL135	FL136
FL137	FL138	FL139	FL140	FL141	FL142	FL143	FL144	FL145	FL146
FL147	FL148	FL149	FL150	FL151	FL152	FL153	FL154	FL155	FL156
FL157	FL158	FL159	FL160	FL161	FL162	FL163	FL164	FL165	FL166

FL167	FL168	FL169	FL170	FL171	FL172	FL173	FL174	FL175	FL176
FL177	FL178	FL179	FL180	FL181	FL182	FL183	FL184	FL185	FL186
FL187	FL188	FL189	FL190	FL191	FL192	FL193	FL194	FL195	FL196
FL197	FL198	FL199	FL200	FL201	FL202	FL203	FL204	FL205	FL206
FL207	FL208	FL209	FL210	FL211	FL212	FL213	FL214	FL215	FL216
FL217	FL218	FL219	FL220	FL221	FL222	FL223	FL224	FL225	FL226
FL227	FL228	FL229	FL230	FL231	FL232	FL233	FL234	FL235	FL236
FL237	FL238	FL239	FL240	FL241	FL242	FL243	FL244	FL245	FL246
FL247	FL248	FL249	FL250	FL251	FL252	FL253	FL254	FL255	FL256
FL257	FL258	FL259	FL260	FL261	FL262	FL263	FL264	FL265	FL266
FL267	FL268	FL269	FL270	FL271	FL272	FL273	FL274	FL275	FL276
FL277	FL278	FL279	FL280	FL281	FL282	FL283	FL284	FL285	FL286
FL287	FL288	FL289	FL290	FL291	FL292	FL293	FL294	FL295	FL296
FL297	FL298	FL299	FL300	FL301	FL302	FL303	FL304	FL305	FL306



To Accompany A Report By W.J. HILL
IMPERIAL OIL LIMITED Dated DEC. 1973

FIGURE 2

PROPERTY

Vangulf Exploration Company originally staked 43 mineral claims on the Friendly Lake property in November, 1971. One hundred and six (106) mineral claims were added to the original claims in April, 1972. The claim names, record numbers and recording dates are shown below:

FL # 1-20	133521 - 133540	November 10, 1972
FL #21-43	171721 - 171743	November 10, 1972
FL #44-60	335204 - 335220	April, 1973
FL #61	335203	April, 1973
FL #61-140	335222 - 335300	April, 1973
FL #141-149	133541 - 133549	April, 1973

During 1972, Imperial Oil Limited carried out exploration work which consisted of geological mapping, geochemical soil sampling, magnetometer surveying, induced polarization/resistivity surveying and linecutting.

GEOCHEMISTRY

GENERAL STATEMENT

A total of 967 samples were collected on the FL claim group, generally in the western and southeastern area of the group. Preparation for taking soil samples consisted of cleaning the forest litter from the sample site and digging approximately a 6" x 6" x 1' deep hole. The "B" horizon was identified on the wall of the hole and a sample was taken, large enough to adequately fill a numbered wet-strength kraft paper envelope. If the "B" horizon could not be identified the sample was taken from 8" to 12" in the hole. Notes concerning sampling depth, slope and direction of drainage, vegetation cover and type, and size fractions were taken at each sampling site.



Samples were sent to Imperial Oil's Geochemical laboratory in Calgary and also to Barringer Research Laboratories in Vancouver where they were dried and prepared prior to being analyzed for copper, molybdenum, lead, zinc and silver. A copy of the procedures used in analyzing these soil samples is included in the Appendix.

GEOCHEMICAL RESULTS

1. Copper

The total analysis of the soil in parts per million (ppm) are plotted on Figure 4 (in pocket). A cumulative frequency distribution curve of the total copper in the soils (Figure 8) suggest that there are three populations for copper. The intersection of the last two populations gives an anomalous value of 90 ppm for this metal. Based on this finding, there are several interesting results:

- a) The entire west side of the claim block sampled during 1973 shows variable anomalous results with the highest value being 840 ppm. Generally, most of the anomalous results fall between 100 and 300 ppm.
- b) The southeast portion of the FL claim group only show scattered erratic high Cu values suggesting that this area is not interesting for copper mineralization. However, as the area is somewhat more overburden covered, anomalies would be more difficult to determine.

2. Molybdenum

The total molybdenum values in parts per million are plotted on Figure 5. A cumulative frequency curve of the total molybdenum in soils (Figure 8) suggests that there are three populations for molybdenum. The intersection of the last two populations gives an anomalous value of 19 ppm. for this metal. Based on this threshold value, only scattered high values can be seen on the western portion and on the southeastern portion of



the claim group. Previous sampling in 1972 showed high values within the central part of the claim block.

3. Lead

The total lead values in parts per million are plotted on Figure 6 (in pocket). A cumulative frequency distribution curve of the total leads in soil (Figure 8) suggests that there are also three populations for lead giving an anomalous value of 68 ppm. Based on this threshold value only scattered anomalous values are exhibited over the western and southeastern portion of the claim block. A small anomalous zone does exist on the west end of Friendly Lake, possibly an extension of the small Pb-Ag showing Anaconda American Brass uncovered in previous exploration.

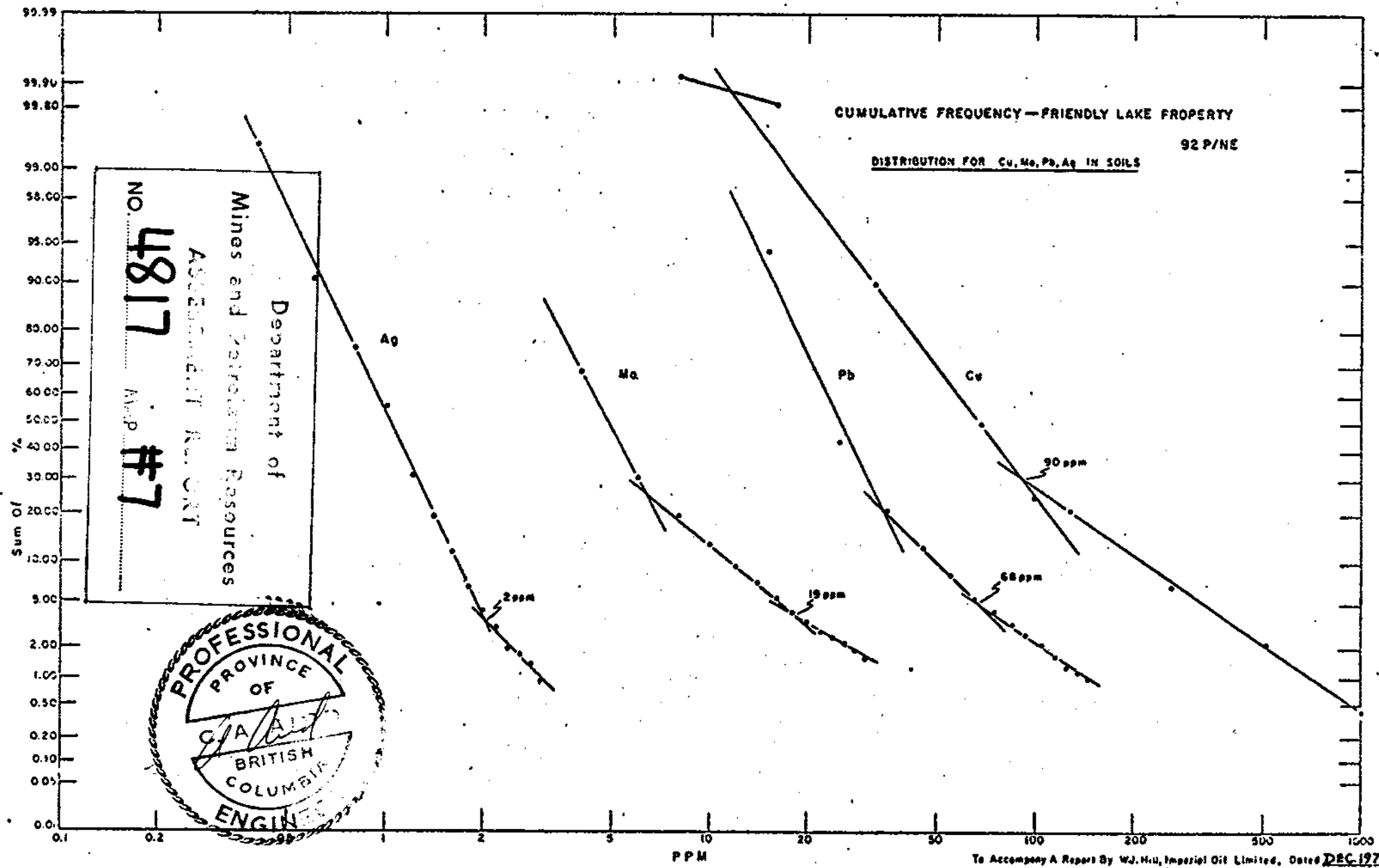
4. Silver

The total silver value in parts per million are plotted on Figure 7 (in pocket). The cumulative frequency distribution curve gives a threshold value of 2 ppm. Based on this threshold value, very few samples exhibit values greater or equal to 2 ppm within the area sampled in 1973. No outstanding silver anomalies are noted over the entire FL claim group.

5. Zinc

There were no zinc samples analyzed in 1972 but all samples taken during 1973 were analyzed. No cumulative frequency distribution curve was plotted for zinc but the threshold value can be taken arbitrarily at 150 ppm. Scattered anomalous values are shown on the western portion of the claim group. In the southeast area, more diagnostic anomalies are evident with values up to 700 ppm but generally between 200 and 300 ppm.





To Accompany A Report By W.J. Hill, Imperial Oil Limited, Dated DEC. 1973.

Figure 8

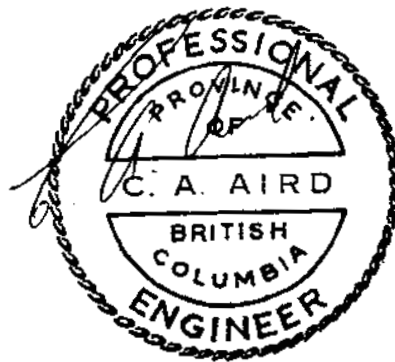
CONCLUSIONS

Copper is the most diagnostic element to show anomalous conditions on the claim group. Most likely these Cu anomalies are related to minor surface mineralization in the Nicola volcanic rocks.

Molybdenum, lead, and zinc, show widely scattered anomalies across the claim group.

Silver is not useful in defining any anomalous areas.

WJH/gf
14/12/73



CERTIFICATE OF QUALIFICATIONS

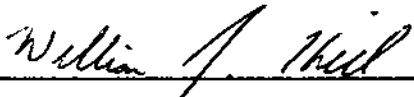
I, William J. Hill, of 11040 Brae Rd. S.W., Calgary, Alberta, certify and declare that I am a graduate of the University of Manitoba with a B.Sc. degree in Geology (1967). I have taken a further two (2) years of geology and related courses at the University of Manitoba, which is credited to an M.A. degree, still to be completed.

I am an associate member of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.

I have been employed by Imperial Oil Ltd., 500 - 6th Ave. S.W., Calgary, Alberta, since 1969. While working with this company, I have conducted and directed exploration programs, property examinations and property evaluations in southeastern and central British Columbia.

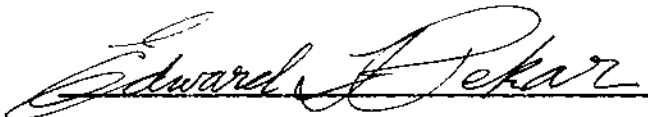
Prior to working with Imperial Oil Ltd., I have helped conduct exploration programs in geological mapping, geochemical prospecting and geophysics with a variety of companies in British Columbia, Saskatchewan and New Brunswick.

SIGNED:



William J. Hill

WITNESSED:



Edward L. Pekar
Chief Geologist, Western Canada



A P P E N D I X

ASSESSMENT COST BREAKDOWN

Geochemical Survey

CLAIM GROUP 1 (218 Samples)

Cu @ \$1.00	\$ 218.00
Pb @ .50	109.00
Zn @ .25	54.50
Ag @ .50	109.00
Mo @ .25	54.50
Sample Preparation @ .20	<u>43.60</u>
	\$ 588.60
COLLECTION OF 218 SAMPLES @ \$1.60/SAMPLE	<u>348.80</u>
TOTAL	<u>\$ 937.40</u>

CLAIM GROUP 2 (229 Samples)

Cu @ \$1.00	\$ 229.00
Pb @ .50	114.50
Zn @ .25	57.25
Ag @ .50	114.50
Mo @ .25	57.25
Sample Preparation @ .20	<u>45.80</u>
	618.30
COLLECTION OF 229 SAMPLES @ \$1.60/SAMPLE	<u>366.40</u>
TOTAL	<u>\$ 984.70</u>

CLAIM GROUP 3 (155 Samples)

Cu @ \$1.00	\$ 155.00
Pb @ .50	77.50
Zn @ .25	38.75
Ag @ .50	77.50
Mo @ .25	38.75
Sample Preparation @ .20	<u>31.00</u>
	\$ 418.50
COLLECTION OF 155 SAMPLES @ \$1.60/SAMPLE	<u>248.00</u>
TOTAL	<u>\$ 666.50</u>

CLAIM GROUP 4 (173 Samples)

Cu @ \$1.00	\$ 173.00
Pb @ .50	86.50
Zn @ .25	43.25
Ag @ .50	86.50
Mo @ .25	43.25
Sample Preparation @ .20	<u>34.60</u>
	467.10
COLLECTION OF 173 SAMPLES @ \$1.60/SAMPLE	<u>276.80</u>
TOTAL	<u>\$ 743.90</u>

Procedure for Analysis of
Soil and Silt Samples

C. J. Collyer
November 1/72

1. Hang the bagged sample in the drying oven at 50°C over night or longer if necessary.
2. Sieve the sample to -80 mesh and retain this sieved portion in a plastic vial bearing the sample number.
3. Prepare a cross reference sheet to identify the samples during analysis.
4. Weigh 0.50 ± 0.01 gm of the sieved sample and transfer to a Coors crucible, cover and place in its designated location on a stainless steel tray.
5. Place tray of samples in the muffle oven and ash at 500°C for 45 minutes (Approximately $1\frac{1}{2}$ hours is required to reach 500°C.)
6. Remove samples from the muffle oven after it is cooled down and transfer to test tubes for digestion.
7. (A) All Elements Except Molybdenum
 - I. Add 5.0 ml of HNO_3 and stir.
 - II. Transfer to heating blocks and digest for $1\frac{1}{2}$ hours at 100°C.
 - III. Transfer to plastic racks; cool and dilute with 10 ml of deionized water.(B) Molybdenum Plus Other Elements Requested at Same Time
 - I. Add 1.5 ml HNO_3 and stir.
 - II. Transfer to heating blocks and digest for $\frac{1}{2}$ hours at 100°C.
 - III. Add 0.5 ml HCl , and leave in heating blocks for an additional 2 hours.
 - IV. Transfer to plastic racks, cool and dilute with 7.8 ml of 1500 ppm Na_2SO_4 in deionized water.
8. Leave samples sit over night, stir and analyze on the atomic absorption spectrophotometer for the elements requested after they are settled and the liquid clear.
9. Set scale expansion on the instrument at 1 ppm standard equal 34 on 7 A digestion and 1 ppm equal 20 on the 7B digestion.

IMPERIAL OIL LIMITED -- PRODUCING DEPARTMENT
PRODUCTION RESEARCH & TECHNICAL SERVICE LABORATORY
MEMORANDUM

August 23, 1973

Mr. D. B. Layer
Mineral Exploration Dept.
Calgary.

Attention: Mr. W. J. Hill

Re: Geochemical Mineral Analysis

The attached Laboratory Report No. L-45673 covers the geochemical analysis for copper, lead, zinc, molybdenum and silver by 3:1 HNO₃: HCl Hx, and copper and zinc by 0.5N HCl Cx of soil samples No. 6025 -7000 to 7405 (broken series) from Friendly Lake received August 7/73.

G. G. MAINLAND

By: C. J. Collyer
C. J. Collyer

CJC:mo
Attach.

cc: W. J. Hill
Box 75
Little Fort, B. C.

C. A. Aird, Vancouver office
Ed Pekar, Vancouver office

PRODUCTON RESEARCH AND TECHNICAL SERVICE LABORATORY
CALGARY, ALBERTA

GEOCHEMICAL LABORATORY REPORT

Laboratory Report No. L-45673Analysis Requested by W.J. HillType of Extraction 3:F:HNO₃:HCl HxMethod of Analysis Atomic AbsorptionAnalyst C.J. CollyerDate Aug 20 1973

Remarks: _____

07/08 13:24 CROSS REFERENCE

AREA 6025 BATCH 73 RUN NO 1 CALIB REF 6500

FIELD NO.	LAB NO.	P.P.M. METAL							
		Cu	Pb	Zn	Mo	Ag			
6025									
7000	1318.0	53	25	101	1	0.9			
7001	1318.1	45	16	98	2	0.8			
7002	1318.2	46	26	62	2	0.8			
7003	1318.3	80	39	77	3	1.0			
7004	1318.4	48	14	52	1	0.9			
7005	1318.5	128	17	82	1	1.1			
7007	1318.6	51	14	68	1	1.0			
7008	1318.7	78	13	99	1	0.8			
7009	1318.8	49	14	75	2	1.0			
7010	1318.9	46	15	76	1	1.0			
7011	1319.0	112	13	50	4	0.8			
7012	1319.1	195	20	69	1	1.1			
7013	1319.2	93	20	87	2	0.9			
7014	1319.3	41	18	55	1	1.0			
7015	1319.4	53	17	60	1	1.3			
7016	1319.5	325	28	68	4	1.8			
7017	1319.6	89	31	69	3	1.3			
7018	1319.7	35	75	56	1	1.5			
7019	1319.8	79	17	75	3	1.4			
7020	1319.9	117	35	170	4	1.4			
7022	1320.0	17	21	85	3	1.2			
7023	1320.1	173	35	230	7	1.9			
7024	1320.2	240	25	98	5	1.4			
7026	1320.3	76	25	110	5	1.2			
7027	1320.4	109	24	56	4	1.2			
7028	1320.5	98	30	65	5	1.3			
7029	1320.6	218	56	76	6	1.3			
7030	1320.7	172	24	81	3	1.5			
7031	1320.8	362	26	50	4	1.2			
7032	1320.9	137	19	69	2	1.2			
7033	1321.0	143	18	59	1	1.0			
7034	1321.1	92	12	74	1	1.2			
7035	1321.2	170	16	73	2	2.0			
7036	1321.3	56	30	94	6	1.0			
7037	1321.4	220	24	98	5	1.2			
7038	1321.5	63	47	91	4	1.4			
7039	1321.6	94	59	108	2	1.0			
7040	1321.7	198	130	121	3	2.0			
7041	1321.8	208	116	165	4	1.0			
7042	1321.9	120	148	128	2	1.5			

FIELD NO.	LAB NO.	P.P.M. METAL					
		Cu	Pb	Zn	Mo	Ag	
6025-							
7100	1327.5	102	68	150	1	1.0	
7101	1327.6	26	36	88	0	0.7	
7102	1327.7	254	69	190	12	1.6	
7103	1327.8	76	64	200	3	1.5	
7104	1327.9	44	6	11	3	0.8	
7105	1328.0	99	81	180	3	1.5	
7106	1328.1	93	174	135	3	1.4	
7107	1328.2	102	129	170	2	1.4	
7108	1328.3	85	85	200	3	1.0	
7109	1328.4	118	76	190	2	1.1	
7110	1328.5	47	48	190	1	1.2	
7111	1328.6	44	65	140	2	1.0	
7112	1328.7	39	44	330	2	1.1	
7113	1328.8	135	79	117	8	1.1	
7114	1328.9	140	79	240	9	1.2	
7115	1329.0	440	65	100	6	1.7	
7116	1329.1	57	70	240	1	1.3	
7117	1329.2	75	50	200	6	1.1	
7118	1329.3	59	82	330	6	1.5	
7119	1329.4	212	102	310	2	1.8	
7120	1329.5	56	119	116	1	0.9	
7121	1329.6	60	90	155	1	1.2	
7122	1329.7	112	49	206	1	0.9	
7123	1329.8	154	116	147	3	0.8	
7124	1329.9	42	50	230	2	0.9	
7125	1330.0	76	67	102	4	0.9	
7126	1330.1	980	54	41	7	2.3	
7127	1330.2	197	131	104	12	1.1	
7128	1330.3	510	200	215	11	3.1	
7129	1330.4	97	53	146	8	1.0	
7130	1330.5	194	56	136	2	1.2	
7131	1330.6	140	67	180	4	1.9	
7132	1330.7	600	15	20	2	1.6	
7133	1330.8	82	25	132	2	1.0	
7134	1330.9	77	36	83	1	0.8	
7135	1331.0	192	24	106	4	2.3	
7136	1331.1	53	31	72	5	1.1	
7137	1331.2	51	20	168	2	1.0	
7138	1331.3	41	65	75	2	1.0	
7140	1331.4	88	27	75	3	1.0	
7141	1331.5	65	33	107	2	1.1	
7142	1331.6	115	45	85	6	1.4	
7143	1331.7	69	26	49	4	0.9	
7144	1331.8	122	25	91	4	1.0	
7145	1331.9	30	23	55	2	0.9	
7146	1332.0	60	29	81	1	1.0	
7147	1332.1	150	41	90	4	0.8	
7148	1332.2	115	26	51	3	0.9	
7149	1332.3	26	18	92	3	1.1	
7150	1332.4	290	60	92	16	2.2	
7151	1332.5	72	58	85	3	0.9	
7152	1332.6	31	42	172	1	0.8	
7153	1332.7	80	92	135	2	1.1	
7154	1332.8	42	46	141	1	1.0	
7155	1332.9	116	63	126	2	1.5	

FIELD NO.	LAB NO.	P.P.M. METAL					
		Cu	Pb	Zn	Mo	Ag	
6025-							
7155	1333.0	80	43	92	2	0.9	
7157	1333.1	76	52	157	2	1.2	
7158	1333.2	91	38	93	1	1.0	
7159	1333.3	55	47	160	1	1.4	
7160	1333.4	127	99	156	1	1.4	
7161	1333.5	213	170	205	8	2.0	
7162	1333.6	74	61	210	1	1.1	
7163	1333.7	299	140	98	8	2.4	
7164	1333.8	193	228	120	4	1.6	
7165	1333.9	116	49	175	1	1.4	
7167	1334.0	104	74	102	2	1.2	
7168	1334.1	158	123	91	4	1.6	
7169	1334.2	810	33	31	10	2.7	
7170	1334.3	349	48	47	19	1.6	
7171	1334.4	190	20	25	7	1.0	
7172	1334.5	81	46	77	3	1.0	
7173	1334.6	169	51	88	4	1.1	
7174	1334.7	128	60	84	5	0.9	
7175	1334.8	173	60	97	3	1.1	
7176	1334.9	112	36	43	16	1.2	
7177	1335.0	38	6	21	1	0.4	
7178	1335.1	89	30	153	3	1.3	
7179	1335.2	20	24	151	1	0.9	
7180	1335.3	90	24	190	1	0.9	
7181	1335.4	113	43	155	1	1.1	
7182	1335.5	52	30	73	1	0.4	
7183	1335.6	100	30	85	9	0.9	
7184	1335.7	76	28	73	1	0.6	
7185	1335.8	126	38	106	2	0.7	
7186	1335.9	139	32	112	1	0.9	
7187	1336.0	119	30	110	1	1.0	
7188	1336.1	57	26	86	1	0.6	
7189	1336.2	59	21	98	1	0.6	
7190	1336.3	69	33	105	3	0.8	
7191	1336.4	103	33	83	4	0.6	
7192	1336.5	123	30	77	3	0.9	
7193	1336.6	304	50	116	12	1.3	
7195	1336.7	90	31	152	7	1.5	
7196	1336.8	28	49	186	2	1.3	
7197	1336.9	530	18	87	13	0.9	
7198	1337.0	178	17	82	3	0.9	
7199	1337.1	230	14	82	1	1.1	
7200	1337.2	69	18	72	4	1.0	
7201	1337.3	90	16	85	5	0.9	
7202	1337.4	75	60	51	3	0.9	
7203	1337.5	57	71	122	3	1.4	
7204	1337.6	60	30	86	3	0.8	
7205	1337.7	90	34	97	4	1.1	
7206	1337.8	89	40	99	4	1.0	
7207	1337.9	115	41	102	4	1.4	
7208	1338.0	76	28	162	2	0.9	
7209	1338.1	96	27	123	2	0.6	
7210	1338.2	76	30	101	1	0.7	
7211	1338.3	42	24	64	2	0.4	
7212	1338.4	74	24	101	3	0.5	

FIELD NO.	LAB NO.	P.P.M. METAL							
		Cu	Pb	Zn	Mo	Ag			
6025-									
7213	1338.5	65	31	82	4	0.6			
7214	1338.6	28	18	166	2	0.7			
7215	1338.7	65	25	80	5	0.9			
7216	1338.8	78	22	80	9	1.6			
7217	1338.9	89	22	153	4	1.3			
7218	1339.0	318	68	135	5	1.8			
7219	1339.1	109	25	92	4	0.7			
7220	1339.2	112	31	97	5	1.0			
7221	1339.3	167	40	89	18	1.6			
7222	1339.4	66	21	87	8	0.9			
7223	1339.5	88	22	84	6	1.2			
7224	1339.6	145	30	138	10	1.5			
7225	1339.7	93	26	119	10	1.2			
7226	1339.8	44	18	71	3	0.7			
7227	1339.9	56	18	67	2	0.5			
7228	1340.0	263	24	60	14	1.6			
7229	1340.1	620	22	76	7	1.3			
7230	1340.2	1080	29	166	9	1.6			
7231	1340.3	92	18	69	2	0.7			
7232	1340.4	59	25	64	3	0.8			
7233	1340.5	216	41	68	5	0.8			
7234	1340.6	108	27	72	2	0.8			
7235	1340.7	40	26	66	2	0.6			
7236	1340.8	280	29	128	5	1.0			
7237	1340.9	105	35	125	14	1.7			
7238	1341.0	85	35	81	2	0.9			
7239	1341.1	35	27	126	7	1.0			
7240	1341.2	118	38	225	4	1.1			
7241	1341.3	192	97	108	5	1.0			
7242	1341.4	82	76	77	3	1.0			
7243	1341.5	11	18	41	1	0.3			
7244	1341.6	117	38	135	9	1.5			
7245	1341.7	32	38	85	4	0.8			
7246	1341.8	230	31	144	21	1.2			
7247	1341.9	20	31	56	4	0.8			
7248	1342.0	50	39	98	6	0.9			
7249	1342.1	31	67	28	8	0.4			
7250	1342.2	238	49	113	37	0.8			
7251	1342.3	52	105	144	12	1.6			
7252	1342.4	53	56	101	4	1.0			
7253	1342.5	60	50	68	5	0.7			
7254	1342.6	97	84	142	7	0.8			
7255	1342.7	56	42	112	6	1.0			
7256	1342.8	99	61	107	7	0.9			
7257	1342.9	59	39	141	3	1.0			
7258	1343.0	63	30	98	10	1.5			
7259	1343.1	83	42	77	8	1.5			
7260	1343.2	108	70	102	8	1.5			
7261	1343.3	39	33	29	6	0.6			
7262	1343.4	74	47	57	11	1.0			
7263	1343.5	231	22	8	1	0.8			
7264	1343.6	237	112	111	34	1.2			
7265	1343.7	113	32	102	12	0.9			
7266	1343.8	255	32	109	11	1.6			
7267	1343.9	39	21	71	6	0.8			

FIELD NO.	LAB NO.	P.P.M. METAL								
		Cu	Pb	Zn	Mo	Ag				
6025-										
7322	1344.0	103	42	56	2	1.4				
7323	1344.1	55	30	26	3	0.8				
7324	1344.2	NO SAMPLE								
7325	1344.3	123	106	124	8	1.3				
7326	1344.4	162	59	95	9	1.2				
7327	1344.5	97	183	140	9	0.9				
7328	1344.6	154	38	119	3	1.0				
7329	1344.7	97	55	120	4	1.1				
7330	1344.8	125	152	129	6	1.7				
7331	1344.9	99	37	116	3	1.4				
7332	1345.0	96	28	73	1	1.0				
7333	1345.1	49	21	61	2	0.6				
7334	1345.2	90	33	98	3	1.3				
7335	1345.3	77	30	220	1	1.1				
7336	1345.4	233	36	210	7	1.9				
7337	1345.5	151	18	64	3	0.8				
7338	1345.6	55	22	78	2	0.8				
7339	1345.7	59	27	107	1	0.8				
7340	1345.8	62	23	93	1	0.8				
7341	1345.9	42	22	99	5	0.9				
7342	1346.0	50	21	109	3	1.0				
7343	1346.1	96	30	140	8	2.6				
7344	1346.2	100	16	102	21	1.0				
7345	1346.3	227	45	113	5	2.1				
7346	1346.4	96	26	85	1	0.9				
7347	1346.5	172	28	152	3	2.0				
7355	1346.6	163	1,170	200	5	2.1				
7356	1346.7	82	32	95	1	0.8				
7357	1346.8	82	34	88	2	1.0				
7358	1346.9	112	34	109	1	1.5				
7359	1347.0	92	45	142	2	1.2				
7360	1347.1	100	53	99	5	1.2				
7361	1347.2	172	46	155	4	2.0				
7362	1347.3	109	40	119	1	1.1				
7363	1347.4	180	46	129	3	2.1				
7364	1347.5	76	41	109	3	1.0				
7365	1347.6	78	23	98	1	0.9				
7366	1347.7	39	22	90	4	0.6				
7367	1347.8	21	24	86	3	0.3				
7368	1347.9	40	30	125	3	0.8				
7369	1348.0	45	42	178	4	0.9				
7370	1348.1	94	71	160	3	1.0				
7371	1348.2	97	63	100	6	1.1				
7372	1348.3	110	57	91	9	1.0				
7373	1348.4	141	91	123	12	1.5				
7374	1348.5	61	52	84	7	0.7				
7375	1348.6	97	305	155	10	2.2				
7376	1348.7	230	240	121	4	1.5				
7377	1348.8	107	64	86	7	0.8				
7378	1348.9	72	52	121	5	1.6				
7379	1349.0	99	84	81	4	0.9				
7385	1349.1	240	260	123	4	2.3				
7381	1349.2	170	730	168	19	2.4				
7382	1349.3	43	237	83	3	1.4				
7383	1349.4	112	89	168	7	1.2				

FIELD NO.	LAB NO.	BASE METAL							
		Cu	Pb	Zn	Mo	Ag			
6025-									
7384	1349.5	69	63	114	3	1.5			
7385	1349.6	116	59	120	14	1.3			
7386	1349.7	98	146	96	6	1.8			
7387	1349.8	76	84	96	2	0.9			
7388	1349.9	115	32	91	10	1.1			
7389	1350.0	261	35	165	10	2.3			
7392	1350.1	119	30	126	38	1.0			
7393	1350.2	255	40	102	77	1.2			
7394	1350.3	203	69	103	18	1.1			
7395	1350.4	159	52	88	36	1.8			
7396	1350.5	207	130	133	38	1.3			
7397	1350.6	186	33	113	24	1.8			
7398	1350.7	62	53	95	12	1.1			
7399	1350.8	480	78	92	23	2.3			
7400	1350.9	85	51	130	5	1.1			
7401	1351.0	152	65	78	13	0.8			
7402	1351.1	76	58	132	9	1.3			
7403	1351.2	170	46	114	14	1.1			
7404	1351.3	91	29	82	6	0.9			
7405	1351.4	113	85	66	42	1.2			

BARRINGER RESEARCH LIMITED

Geochemical

Laboratory
Reports

Imperial Oil Limited
314 - 1281 West Georgia Street
Vancouver 5, B.C.

6025
7.1.
304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

DATE October 1, 1973

N.S.

Project 6025 - Friendly Lake

NOTE - NS = NO SAMPLE

IS = INSUFFICIENT SAMPLE

REPORT NUMBER 165

Corr.

Corr.

SAMPLE NUMBER SOILS	Reverse "Aqua Regia"					Mo ppm					
	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm						
7253	58	16	42	.8	12						
54	65	71	105	.6	10						
55	NS	NS	NS	NS	NS						
56	8	8	12	.4	5						
57	29	35	41	.6	9						
58	38	58	45	.6	13						
59	54	28	70	.4	7						
60	30	36	30	.4	3						
61	145	315	210	3.0	11						
62	7	57	35	.4	3						
63	290	92	110	.4	13						
64	25	22	43	.2	4						
65	305	48	41	2.4	7						
66	215	300	84	.6	2						
67	140	28	71	< .2	8						
68	405	21	165	2.6	18						
69	130	17	130	.2	8						
70	130	15	105	.4	6						
71	80	11	61	.4	4						
72	16	9	68	.2	7						

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7273	215	17	200	.8	9					
74	NS	NS	NS	NS	NS					
75	83	13	67	.4	5					
76	87	11	140	.4	7					
77	NS	NS	NS	NS	NS					
78	960	6	17	3.8	9					
79	185	15	125	1.4	8					
80	92	12	120	.8	5					
81	44	6	60	.2	4					
82	155	33	115	2.0	10					
83	62	12	83	1.0	6					
84	63	11	82	.4	5					
85	65	17	89	.6	4					
86	63	18	76	.6	6					
87	29	7	50	.4	10					
88	50	12	76	.2	4					
89	47	12	76	.2	4					
90	94	17	66	.2	13					
91	145	15	79	2.0	6					
92	115	23	82	.4	6					
93	160	17	85	.8	9					
94	75	20	110	<.2	4					
95	85	10	36	.4	4					
96	145	20	85	2.6	9					
97	145	27	84	.6	13					
98	46	18	72	.4	4					
99	65	12	89	.2	3					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7300	240	28	135	1.6	9					
01	44	20	86	< .2	4					
02	56	14	88	.2	5					
03	125	35	150	1.4	9					
7406	45	20	80	< .2	4					
07	83	71	115	< .2	5					
08	3	3	2	.2	1					
09	105	36	185	.8	9					
10	92	185	85	.2	12					
11	110	68	115	.8	6					
12	62	31	75	< .2	4					
13	65	39	150	< .2	4					
14	NS	NS	NS	NS	NS					
15	NS	NS	NS	NS	NS					
16	NS	NS	NS	NS	NS					
17	88	210	135	5.0	10					
18	65	140	105	2.8	19					
19	150	195	130	5.4	13					
20	125	97	135	.4	7					
21	49	67	76	.2	6					
22	30	18	40	< .2	4					
23	57	19	115	< .2	3					
24	72	27	86	< .2	10					
25	100	18	120	.8	6					
26	99	14	66	1.0	3					
27	80	20	120	.4	5					
7128	99	31	85	1.4	5					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7429	105	33	85	.8	6					
30	135	24	100	.2	5					
31	53	18	66	< .2	5					
32	47	27	110	< .2	4					
33	48	48	71	.2	4					
34	59	31	83	.2	4					
35	32	20	89	< .2	4					
36	75	58	110	< .2	8					
37	49	25	78	< .2	5					
38	38	37	130	.2	4					
39	48	31	110	< .2	5					
40	48	68	120	.2	5					
41	61	32	200	.4	6					
42	64	56	100	.2	5					
43	92	70	150	.4	5					
44	79	66	79	.6	9					
45	68	21	53	1.0	5					
46	NS	NS	NS	NS	NS					
47	57	105	135	.4	6					
48	NS	NS	NS	NS	NS					
49	58	170	135	.2	7					
50	NS	NS	NS	NS	NS					
51	112	105	78	1.0	11					
52	99	54	140	.4	7					
53	51	19	62	.2	6					
54	200	28	105	.8	7					
7455	84	22	110	< .2	5					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7456	200	34	160	< .2	6					
57	225	22	110	.4	5					
58	32	18	180	.2	4					
59	40	27	82	< .2	4					
60	59	32	140	.6	5					
61	54	33	120	.2	5					
62	17	15	56	.2	6					
63	77	28	135	< .2	7					
64	43	30	73	< .2	4					
65	120	25	87	.4	6					
66	79	19	88	.6	5					
67	56	15	67	.2	1					
68	79	28	135	< .2	4					
69	68	34	110	< .2	5					
70	64	155	220	.2	6					
71	90	170	145	.4	9					
72	120	22	120	.2	6					
73	31	52	105	.2	7					
74	38	39	170	.4	5					
75	59	41	100	.2	6					
76	235	55	88	.4	10					
77	55	105	79	< .2	5					
78	56	115	77	< .2	5					
79	NS	NS	NS	NS	NS					
80	47	62	155	.2	2					
81	67	27	77	< .2	3					
7482	40	42	175	.6	3					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7383	95	60	235	.6	5					
84	78	40	84	<.2	5					
85	77	33	100	<.2	4					
86	45	12	135	<.2	5					
87	58	21	130	.4	5					
88	57	24	110	.4	8					
89	54	30	150	1.2	6					
90	94	15	140	.4	5					
91	58	15	180	.2	4					
92	15	6	125	.2	4					
93	52	17	135	.4	3					
94	60	13	100	<.2	4					
95	52	16	125	.2	4					
96	35	14	150	.2	4					
97	82	22	73	.4	4					
98	35	11	85	.4	5					
99	46	26	88	.4	6					
7500	225	50	110	1.4	8					
01	135	54	115	1.8	5					
02	54	48	100	.4	5					
03	34	82	170	.6	8					
04	235	140	125	4.4	9					
05	91	71	70	1.4	6					
06	48	86	115	.4	5					
07	95	135	120	.8	5					
08	65	100	83	.2	5					
09	55	20	72	.4	4					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7510	54	60	110	.2	5					
11	250	225	145	4.6	9					
12	60	57	105	.4	4					
13	63	72	125	.2	4					
14	100	130	170	.6	5					
15	140	57	170	.6	5					
16	42	45	85	< .2	4					
17	70	26	170	< .2	5					
18	41	20	82	.4	3					
19	73	38	165	.4	5					
20	250	27	140	.8	5					
21	61	21	82	.6	5					
22	56	15	73	.2	4					
23	58	20	105	.2	6					
24	120	31	140	.6	10					
25	115	29	110	.8	10					
26	90	9	34	2.2	4					
27	35	14	150	.6	5					
28	49	17	120	< .2	4					
29	53	20	165	.2	4					
30	88	85	89	1.0	3					
31	195	73	145	4.4	6					
32	395	70	72	5.2	4					
33	110	105	105	4.6	6					
34	150	120	120	2.0	6					
35	115	24	40	1.2	4					
36	355	98	115	3.6	6					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	ppm	ppm	ppm	ppm	ppm					
7537	200	42	110	.6	5					
38	285	19	59	2.0	2					
39	83	49	200	.4	5					
40	42	18	115	.2	5					
41	71	13	120	.2	5					
42	55	12	155	.4	4					
43	56	15	84	.2	4					
44	83	20	105	<.2	5					
45	48	10	76	.2	5					
46	71	27	88	<.2	6					
47	115	22	115	.6	8					
48	68	19	145	.4	6					
49	110	115	140	.4	5					
50	47	27	89	.2	5					
51	95	125	140	.6	5					
52	85	61	89	.6	5					
53	98	105	110	.6	5					
54	98	85	195	.8	7					
55	NS	NS	NS	NS	NS					
56	225	95	145	1.6	7					
57	NS	NS	NS	NS	NS					
58	NS	NS	NS	NS	NS					
59	220	55	86	.2	11					
60	NS	NS	NS	NS	NS					
61	NS	NS	NS	NS	NS					
62	NS	NS	NS	NS	NS					
63	NS	NS	NS	NS	NS					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	ppm	ppm	ppm	ppm	ppm					
7564	NS	NS	NS	NS	NS					
65	72	19	115	.2	6					
66	44	14	71	< .2	4					
67	100	27	74	.4	8					
68	10	5	53	< .2	3					
69	85	7	175	1.0	12					
70	79	3	36	1.0	12					
71	245	69	89	< .2	11					
72	NS	NS	NS	NS	NS					
73	30	33	58	.4	15					
74	36	2	43	.6	4					
75	21	9	8	.4	5					
76	NS	NS	NS	NS	NS					
77	53	16	48	.6	14					
78	44	10	78	.4	10					
79	46	1	47	< .2	6					
80	47	15	55	.6	8					
81	56	14	78	.2	6					
82	3300	12	150	2.0	24					
83	200	15	63	.2	10					
84	165	12	56	.2	10					
85	27	11	47	< .2	4					
86	15	5	27	< .2	4					
87	20	4	53	< .2	5					
89	21	6	81	.2	3					
90	28	4	85	< .2	3					
91	48	10	145	.2	5					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	ppm	ppm	ppm	ppm	ppm					
7592	12	5	39	.2	3					
93	60	6	84	.4	4					
94	825	8	180	.6	5					
95	49	13	170	< .2	4					
96	32	7	165	.2	3					
97	70	5	90	.2	3					
98	57	7	88	.2	4					
99	25	5	56	.4	3					
7600	34	5	135	.2	3					
01	36	9	88	.4	3					
02	32	11	120	< .2	3					
08	27	5	63	.4	2					
09	47	8	88	< .2	4					
10	76	7	120	< .2	4					
11	100	9	91	1.2	5					
12	30	7	75	< .2	3					
13	43	6	185	.2	4					
14	8	7	37	.2	3					
15	6	5	62	< .2	3					
16	30	10	120	.2	7					
17	35	6	125	.2	4					
18	27	7	80	.2	4					
19	25	6	73	< .2	3					
20	34	10	93	.2	3					
21	175	10	110	< .2	3					
22	51	17	155	< .2	5					
23	125	11	135	1.6	5					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7624	27	7	83	< .2	3					
25	76	7	175	1.2	4					
26	24	6	190	< .2	4					
27	65	9	215	.4	5					
28	110	9	155	1.4	4					
29	7	< 1	18	< .2	2					
30	14	5	76	< .2	2					
31	16	8	72	.2	3					
32	14	8	80	.2	2					
33	30	6	78	.2	4					
34	IS	IS	IS	IS	IS					
35	IS	IS	IS	IS	IS					
36	45	2	49	< .2	4					
37	15	7	80	< .2	2					
38	145	11	185	1.0	6					
39	14	7	72	< .2	3					
40	58	8	200	.2	4					
41	52	7	93	< .2	4					
42	6	7	46	< .2	2					
43	26	14	95	< .2	2					
44	53	5	95	.2	2					
45	245	7	30	2.0	4					
46	16	4	73	< .2	2					
47	36	9	125	.2	3					
48	45	6	110	.6	3					
49	21	8	125	.4	4					
50	26	11	145	.2	2					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7679	77	6	120	.6	4					
80	46	3	160	<.2	4					
81	29	5	110	.2	5					
82	NS	NS	NS	NS	NS					
83	45	4	80	<.2	5					
84	30	8	145	.2	3					
85	34	4	110	.2	4					
86	15	3	55	<.2	3					
87	52	7	82	<.2	5					
88	59	6	115	<.2	5					
89	54	7	105	<.2	6					
90	37	4	80	<.2	4					
91	92	13	84	.2	6					
92	15	6	66	.2	4					
93	39	9	79	.2	5					
94	57	7	75	.2	4					
95	21	9	165	.2	3					
96	13	4	57	<.2	2					
97	39	4	94	.4	7					
98	14	7	74	.2	3					
99	80	8	160	1.4	6					
7700	8	5	38	.2	3					
01	39	5	115	.2	6					
02	18	5	53	<.2	4					
03	20	6	125	.4	4					
04	22	5	94	1.6	3					
05	13	7	85	.4	6					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7707	54	4	120	< .2	4					
08	27	6	83	.2	3					
09	04	8	155	.2	4					
10	15	1	73	.4	3					
11	26	5	80	< .2	3					
12	87	6	90	.4	4					
13	NS	NS	NS	NS	NS					
14	31	12	160	.2	5					
15	31	12	140	< .2	5					
16	57	19	120	.2	4					
17	12	12	87	.4	2					
18	80	32	170	.4	5					
19	18	7	57	< .2	3					
20	12	10	73	< .2	2					
21	6	4	31	< .2	1					
22	8	7	34	.2	2					
25	96	8	275	1.4	2					
26	23	7	73	.4	4					
27	NS	NS	NS	NS	NS					
28	25	14	105	< .2	4					
29	14	25	140	< .2	3					
30	24	15	88	< .2	2					
31	96	17	130	< .2	4					
32	21	11	85	< .2	3					
34	21	7	86	< .2	3					
35	11	6	36	< .2	4					
36	195	47	79	.4	11					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	ppm	ppm	ppm	ppm	ppm					
7737	23	12	92	< .2	2					
39	27	7	130	< .2	2					
40	27	9	130	.2	4					
42	70	9	58	.4	4					
43	43	8	78	< .2	5					
44	19	8	56	< .2	4					
46	NS	NS	NS	NS	NS					
47	NS	NS	NS	NS	NS					
48	NS	NS	NS	NS	NS					
49	NS	NS	NS	NS	NS					
50	NS	NS	NS	NS	NS					
51	22	7	73	< .2	4					
52	27	7	68	< .2	3					
53	25	6	69	< .2	3					
54	51	5	84	.6	4					
55	40	7	77	< .2	5					
56	37	7	70	< .2	4					
57	40	11	115	< .2	4					
58	24	8	120	.2	3					
59	36	4	90	< .2	4					
60	11	11	49	.2	2					
61	28	13	79	< .2	4					
62	23	12	74	.4	6					
63	19	12	52	.2	2					
64	8	2	22	< .2	2					
65	23	8	48	< .2	4					
66	23	10	53	.4	4					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	PPM	PPM	PPM	PPM	PPM					
7767	15	5	185	<.2	4					
68	25	5	76	.2	5					
69	11	5	115	.2	3					
70	21	7	120	.2	4					
71	14	3	52	.2	3					
72	13	7	82	.4	2					
73	57	9	130	.2	10					
74	18	7	115	.4	6					
75	51	5	130	.2	8					
76	25	3	75	.2	3					
77	61	5	110	.8	6					
78	56	8	250	.4	7					
79	23	8	85	.2	4					
80	45	9	93	1.0	4					
81	46	6	130	.2	4					
82	160	11	175	1.0	5					
83	50	5	90	.2	3					
84	8	5	24	.2	1					
85	58	4	59	.8	1					
86	18	5	88	.4	1					
87	26	7	92	<.2	3					
88	25	7	94	.4	2					
89	15	4	89	.4	1					
90	63	17	160	.6	4					
91	55	10	140	.4	3					
92	23	6	81	.4	1					
93	24	15	175	.5	2					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7796	NS	NS	NS	NS	NS					
97	NS	NS	NS	NS	NS					
98	NS	NS	NS	NS	NS					
7800	62	18	87	.8	3					
01	37	19	73	.8	2					
02	94	27	150	.8	5					
03	21	13	195	.2	2					
04	19	11	105	<.2	2					
05	27	7	89	.2	2					
06	29	10	155	.8	2					
07	88	20	425	2.0	5					
08	24	18	310	1.2	4					
09	105	6	91	1.0	7					
10	100	8	200	.8	4					
11	37	13	210	1.0	5					
12	26	7	210	.4	4					
13	57	6	155	.2	5					
14	9	9	79	.2	2					
15	10	14	84	<.2	3					
16	70	9	120	.2	3					
17	78	13	190	.2	4					
18	82	13	210	.2	4					
19	140	22	335	1.0	3					
20	190	14	180	2.6	7					
21	48	8	130	<.2	4					
22	53	7	120	<.2	4					
23	21	5	70	<.2	3					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7824	50	10	120	<.2	5					
25	43	6	74	.8	3					
26	41	7	82	<.2	3					
27	49	27	68	<.2	4					
28	11	4	45	<.2	1					
29	83	9	120	2.0	3					
30	17	4	120	<.2	2					
31	15	6	68	.4	2					
32	13	5	48	.2	2					
33	26	11	185	<.2	2					
34	27	9	86	<.2	2					
35	13	7	59	.2	2					
36	17	6	84	.2	2					
37	37	7	74	1.0	4					
38	40	5	70	.2	4					
39	43	9	90	.4	4					
40	22	9	82	.2	3					
41	17	5	57	.6	4					
42	250	9	270	1.4	5					
43	23	6	66	.4	5					
44	180	6	145	1.2	4					
45	49	4	180	.8	6					
46	51	5	84	<.2	4					
47	92	14	250	.6	15					
48	68	4	115	.4	5					
49	24	5	89	.4	9					
50	8	6	53	.8	2					

SAMPLE NUMBER SOILS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Hg PPM					
7851	68	6	170	.6	18					
52	24	7	155	.6	4					
53	NS	NS	NS	NS	NS					
54	NS	NS	NS	NS	NS					
55	12	5	37	.4	2					
56	21	10	81	.2	5					
57	32	14	75	.4	2					
58	27	8	63	.2	2					
59	23	12	94	.2	6					
62	41	5	84	.2	2					
63	25	8	130	.6	4					
64	44	6	86	.4	2					
65	23	9	120	.4	2					
66	88	8	120	.8	4					
67	29	5	115	.2	2					
68	22	5	180	.4	1					
69	19	5	150	.2	1					
70	8	6	28	.6	2					
71	13	11	57	.4	2					
72	250	65	84	.6	13					
73	24	15	135	.2	6					
74	23	8	110	.2	2					
75	13	20	75	.4	2					
76	26	24	115	.4	4					
77	30	28	115	.4	4					
78	26	5	130	.4	2					
79	13	13	60	.6	3					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7880	19	14	79	.4	3					
81	44	10	245	1.4	4					
82	27	6	57	.2	5					
83	11	3	47	.2	3					
84	4	1	18	< .2	1					
85	5	5	26	.2	2					
86	5	3	26	.2	2					
87	22	8	185	.2	4					
88	47	8	240	< .2	4					
89	24	6	200	< .2	3					
90	38	18	650	.8	9					
91	30	8	165	< .2	3					
92	17	7	145	.2	3					
93	13	9	89	< .2	3					
94	74	12	325	.6	4					
95	11	7	64	.2	2					
96	120	12	145	< .2	4					
97	105	8	90	1.2	3					
98	58	3	22	1.8	3					
99	11	8	73	< .2	3					
7900	21	4	115	.2	4					
01	75	3	13	1.6	4					
02	48	6	21	.6	2					
03	65	9	87	.4	6					
04	140	3	34	2.2	4					
05	150	9	140	3.2	4					
06	47	1	14	.6	3					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7907	22	4	68	<.2	4					
08	24	2	40	.4	2					
09	45	4	93	.2	3					
10	25	5	125	.2	3					
11	33	3	95	.4	3					
12	39	8	220	.4	5					
13	53	6	215	.4	4					
14	35	5	87	.4	3					
15	51	6	120	.2	5					
16	40	5	125	.2	5					
17	230	12	330	1.6	14					
18	30	6	130	<.2	4					
19	50	3	130	.6	6					
20	57	< 1	74	<.2	8					
21	110	1	600	.6	18					
22	75	8	345	.8	12					
23	255	64	85	.4	10					
24	44	6	205	.2	3					
25	66	10	275	.6	6					
26	91	17	150	.4	14					
27	NS	NS	NS	NS	NS					
28	NS	NS	NS	NS	NS					
29	NS	NS	NS	NS	NS					
30	NS	NS	NS	NS	NS					
31	39	8	220	< .2	4					
32	30	27	73	.8	7					
33	37	75	215	.8	6					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7934	IS	IS	IS	IS	IS					
35	IS	IS	IS	IS	IS					
36	20	5	82	.2	2					
38	35	5	125	.4	3					
39	47	6	94	.6	2					
40	35	5	95	.2	2					
41	70	13	210	.2	6					
42	43	9	225	<.2	3					
43	NS	NS	NS	NS	NS					
44	48	12	180	.4	3					
45	43	13	180	.2	4					
46	31	23	280	.2	5					
47	27	23	265	.4	4					
48	30	9	150	.4	4					
49	19	11	130	.6	3					
50	100	28	190	<.2	4					
51	NS	NS	NS	NS	NS					
52	79	28	210	<.2	4					
53	73	25	205	<.2	4					
54	29	9	130	.4	4					
55	27	5	150	<.2	3					
56	22	5	130	<.2	3					
57	18	6	120	.2	4					
58	33	6	96	.2	3					
59	29	5	150	<.2	3					
60	28	6	145	<.2	3					
61	34	6	170	<.2	4					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7962	NS	NS	NS	NS	NS					
63	16	5	175	.4	3					
64	32	7	170	< .2	4					
65	46	6	200	< .2	3					
66	260	63	86	< .2	12					
67	26	6	155	.4	3					
68	50	9	285	.2	4					
69	92	8	145	< .2	5					
70	75	10	185	< .2	3					
71	18	7	135	< .2	3					
72	23	10	65	.2	2					
73	21	12	125	< .2	4					
74	37	8	82	.2	4					
75	17	8	42	< .2	3					
76	15	6	57	< .2	2					
77	125	7	83	1.4	7					
78	23	5	88	< .2	3					
79	31	4	95	< .2	4					
80	16	5	60	< .2	3					
81	29	12	99	< .2	4					
82	49	5	130	.2	4					
83	84	8	170	1.0	4					
84	24	3	74	< .2	3					
85	24	5	61	.2	3					
86	12	6	56	< .2	2					
87	29	5	64	< .2	4					
88	47	4	85	< .2	4					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
7989	67	6	69	.8	4					
90	37	4	85	< .2	3					
91	27	3	94	.2	4					
92	29	5	235	< .2	3					
93	56	7	140	.2	10					
94	82	6	225	1.0	10					
95	52	2	285	.2	7					
96	NS	NS	NS	NS	NS					
97	51	< 1	71	.2	12					
98	59	10	215	.4	12					
99	NS	NS	NS	NS	NS					
8000	NS	NS	NS	NS	NS					
01	59	< 1	210	< .2	4					
02	36	7	190	.8	3					
03	NS	NS	NS	NS	NS					
04	NS	NS	NS	NS	NS					
05	IS	IS	IS	IS	IS					
06	NS	NS	NS	NS	NS					
07	255	63	88	.4	11					
08	23	5	87	< .2	4					
09	29	14	71	.2	5					
10	NS	NS	NS	NS	NS					
11	NS	NS	NS	NS	NS					
12	29	7	200	1.2	4					
13	38	3	76	< .2	3					
14	NS	NS	NS	NS	NS					
15	35	5	160	.2	4					

SAMPLE NUMBER SOILS	Cu PPM	Pb PPM	Zn PPM	Kg PPM	Mo PPM					
8016	NS	NS	NS	NS	NS					
17	62	8	200	.2	5					
18	37	7	125	.2	5					
19	44	5	175	.2	5					
20	48	8	205	.2	7					
21	38	7	290	.4	7					
22	69	17	195	.2	5					
23	37	23	280	1.8	15					
24	28	7	155	.2	4					
25	34	17	200	.2	4					
26	44	31	360	.8	5					
27	47	22	295	.4	5					
28	76	8	185	.2	5					
29	28	15	155	.8	3					
30	27	5	96	< .2	3					
31	21	4	69	< .2	2					
32	22	3	65	.2	4					
33	18	3	82	.2	3					
34	37	1	95	.4	3					
35	30	4	140	.2	3					
36	20	6	94	.2	3					
37	32	8	200	< .2	3					
38	16	7	185	< .2	2					
39	NS	NS	NS	NS	NS					
40	NS	NS	NS	NS	NS					
41	36	8	140	< .2	3					
42	27	8	195	< .2	3					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	ppm	ppm	ppm	ppm	ppm					
2043	62	7	150	.4	4					
44	32	6	150	.2	2					
45	62	9	185	.4	4					
46	88	10	220	.2	4					
47	53	9	150	.4	3					
48	58	48	530	.6	4					
49	NS	NS	NS	NS	NS					
50	67	12	700	2.2	6					
51	39	6	215	< .2	4					
52	28	8	135	.2	3					
53	25	10	150	.2	3					
54	105	7	190	< .2	3					
55	23	9	125	.2	3					
56	31	10	180	.6	4					
57	58	9	100	.2	4					
58	92	7	175	.4	5					
59	30	9	125	.2	3					
60	73	8	110	.2	3					
61	34	9	135	.6	5					
62	28	5	100	.2	3					
63	54	6	78	.2	3					
64	31	4	115	.2	4					
65	135	7	155	.6	4					
66	140	5	145	.2	12					
67	270	67	100	.2	10					
68	IS	IS	IS	IS	IS					
69 to 79	NS	NS	NS	NS	NS					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Ko					
SOILS	ppm	ppm	ppm	ppm	ppm					
8080	47	8	230	.4	14					
81	14	6	77	.6	4					
82	17	7	110	.4	4					
83	15	6	100	.8	2					
84	34	4	110	.2	8					
85	32	12	210	.4	8					
86	82	3	64	2.0	4					
87	36	5	120	.6	7					
88	110	7	165	1.6	13					
89	33	6	100	1.6	5					
90	66	< 1	21	1.2	8					
91	110	14	260	1.4	10					
92	74	13	290	.4	13					
93	72	11	280	.2	13					
94	28	10	125	.4	5					
95	28	6	280	.4	3					
96	28	6	235	.2	2					
97	33	32	180	.8	8					
98	24	12	115	.4	4					
99	78	16	320	1.2	5					
8100	NS	NS	NS	NS	NS					
01	NS	NS	NS	NS	NS					
02	67	14	325	.4	5					
03	42	13	175	.4	6					
04	75	7	110	.6	3					
05	79	6	105	.6	4					
06	20	6	100	.6	4					

SAMPLE NUMBER	Cu	Pb	Zn	Ag	Mo					
SOILS	PPM	PPM	PPM	PPM	PPM					
5107	40	8	100	.6	4					
03	20	5	130	.4	2					
09	45	4	230	.4	4					
10	265	64	100	.2	10					
11	73	7	210	< .2	6					
12	63	7	170	.4	4					
13	43	9	335	.4	3					
14	38	12	260	.4	3					
15	54	11	225	< .2	3					
16	60	12	235	.4	3					
17	31	14	215	.2	5					
18	42	14	285	.2	8					
19	270	14	340	1.4	4					
20	12	10	100	< .2	1					
21	49	7	270	.2	3					
22	38	12	380	< .2	3					
23	53	7	210	.2	4					
24	54	7	230	.2	3					
25	18	9	200	.4	3					
26	17	8	180	.4	3					
27	25	8	105	.2	2					
28	38	8	220	.2	3					
29	33	12	135	.2	4					
30	27	7	86	.2	3					
31	32	7	100	< .2	4					
32	345	10	135	.6	8					
33	68	10	120	.8	7					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
8134	53	8	150	< .2	6					
35	46	14	160	.6	6					
36	37	13	125	.4	7					
37	115	10	160	2.2	12					
38	43	8	150	.2	6					
39	150	10	150	1.0	6					
40	70	8	135	.4	2					
41	56	3	53	< .2	6					
42	285	70	100	.2	12					
43	15	4	100	.8	1					
44	26	6	190	.8	8					
45	62	5	245	.6	8					
58	260	61	100	.2	12					
59	24	6	205	.2	5					
60	8	6	53	.4	2					
62	20	4	38	.6	5					
63	NS	NS	NS	NS	NS					
64	30	4	150	.6	6					
65	58	14	250	1.0	8					
67	10	4	72	.2	2					
68	13	6	50	.4	5					
69	19	6	74	.2	13					
70	24	11	100	.8	7					
71	62	9	125	.2	18					
72	67	12	185	.8	7					
73	18	4	120	.4	2					
74	10	11	100	< .2	2					

SAMPLE NUMBER SOILS	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mo ppm					
8175	11	13	100	.2	2					
76	21	11	175	.2	2					
77	22	11	170	< .2	2					
78	NS	NS	NS	NS	NS					
79	58	12	115	.2	10					
80	70	9	120	< .2	7					
81	42	10	160	< .2	5					
82	78	15	125	< .2	11					
83	40	6	73	< .2	5					
84	38	10	71	< .2	7					
85	23	9	63	< .2	9					
86	38	9	140	< .2	6					
87	NS	NS	NS	NS	NS					
88	NS	NS	NS	NS	NS					
89	265	68	100	.2	13					
90	58	13	165	< .2	8					
91	28	5	220	.2	4					
92	15	5	160	.4	3					
93	21	11	165	< .2	6					
94	52	23	150	.2	7					
95	16	16	105	< .2	4					
96	27	11	100	1.0	3					
97	36	12	100	.4	5					
98	NS	NS	NS	NS	NS					
99	NS	NS	NS	NS	NS					
8200	28	11	72	1.0	6					
01	40	12	345	.4	5					

SAMPLE NUMBER SOILS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Mo PPM					
8202	18	10	245	1.2	4					
03	17	8	61	.4	3					
04	33	8	330	.2	3					
05	18	10	220	.8	6					
19	25	8	100	< .2	7					
20	23	14	125	.4	10					
21	16	11	69	< .2	5					
22	42	14	150	.6	4					
23	18	13	110	.2	3					
24	28	33	105	.2	5					
25	18	11	100	< .2	4					
26	15	8	105	.4	3					
27	11	5	58	< .2	1					
28	18	9	105	1.2	4					
29	6	7	32	< .2	<1					
30	31	4	120	.2	4					
31	33	5	110	.6	6					
32	31	9	100	.4	16					
33	13	8	57	< .2	4					
34	37	3	67	.2	4					
35	15	15	47	.4	2					
36	13	4	41	< .2	3					
37	15	3	59	< .2	2					
38	8	4	32	< .2	1					
39	21	4	58	< .2	3					
40	12	5	58	< .2	4					
41	6	8	32	.2	1					

DARMA EXPLORATIONS LTD.

1755 Ord Road Kamloops, B.C.
376-9594 374-2243

August 23, 1973

Imperial Oil Limited
Minerals Section
500 - 6th Avenue S.W.
Calgary, Alberta
T2P 0S1

Attention: Mr. G.A. Aird

Invoice # 2

Re: Friendly Lake property

Soil samples 500 samples @ \$1.60 each.....	\$800.00
Soil samples 60 samples @ \$3.60 each.....	\$216.00
Soil Samples 752 samples @ \$1.60 each.....	\$1203.20
117 samples @ \$.80 each	\$ 93.60
28.9 miles of line cutting @ \$75.00 per mile...	\$2167.50
Total	\$4483.30

Received.....\$1016.00 ✓

Balance due.....\$3467.30

J. Cryderman
151508
3-025-28-6025-1240-3107
2315.90
Sept 7
1140-3107

Darma Explorations Ltd.
per:

[Signature]

Wayne Tisdale

cc: E. Pekar
W. Hill
J. Cryderman

*Lines injected and approved; samples
received and approved: by*
[Signature]

BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: September 26, 1973

Imperial Oil Limited
 314 - 1281 West Georgia Street
 Vancouver, British Columbia

PROJECT: 100.33

PERIOD COVERED:

PROGRESS BILLING:
 SHIPPING REPORT:
 WORK REPORT: 165
 FED. SALES TAX: N/A
 ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: Project 6025, Friendly Lake

TO: Geochemical Analysis

"Reverse" aqua regia:

762 Samples analyzed for Copper	@ 1.00 each	762.00
762 Samples analyzed for Lead		
(+ bkground correction)	.50 each	381.00
762 Samples analyzed for Zinc	.25 each	190.50
762 Samples analyzed for Silver		
(+ bkground correction)	.50 each	381.00
762 Samples analyzed for Molybdenum	.25 each	190.50
762 Sample Preparation	.20 each	152.40

TOTAL INVOICE

\$ 2,057.40

APPROVED
J. Somai
 Geochemical Analysis
 6025

20E - Oct 19
63-025-28-6025-1210-3107

LOCATION MAP

GENERALIZED GEOLOGY OF THE AREA BETWEEN
EAKIN CREEK AND WINDY MOUNTAIN

LEGEND

SINEMURIAN TO (?) MIDDLE JURASSIC

- 7a. AUGITE PORPHYRY, BRECCIA AND AGGLOMERATE. ▲▲▲
- 7b. BEDDED ARGILLITE
- 6a. INTERBEDDED VOLCANIC SILTSTONE, SANDSTONE AND GRIT, MINOR ARGILLITE
- 6b. AUGITE PORPHYRY AGGLOMERATE GRADING UPWARDS INTO POLYMETIC COBBLE AND BOULDER CONGLOMERATE.

UPPER TRIASSIC OR LOWER JURASSIC

- 5. LEUCOGRANITE TO LEUCOSYENITE PORPHYRY
- 4. GREY MICRODIORITE
- 3. THUYA BATHOLITH - HORNBLende - BIOTITE QUARTZ DIORITE AND GRANODIORITE, HORNBLende DIORITE

UPPER TRIASSIC

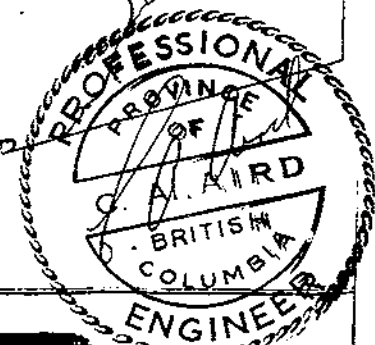
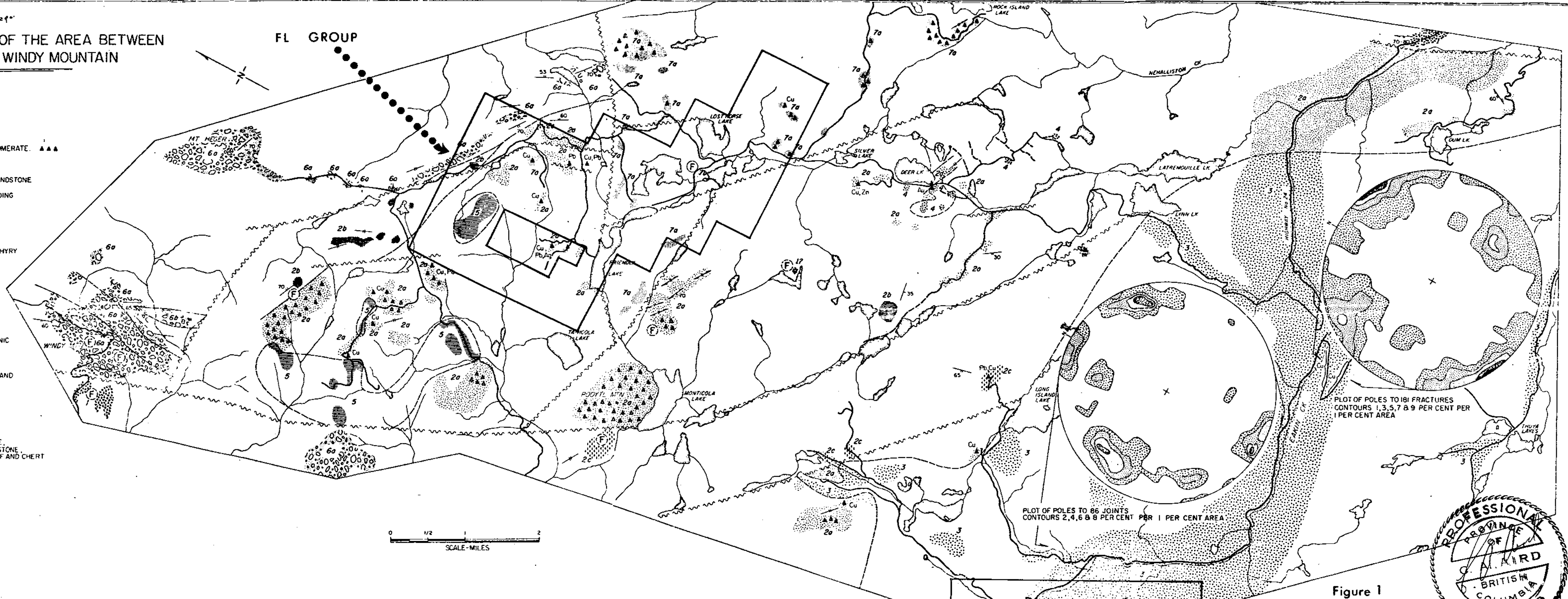
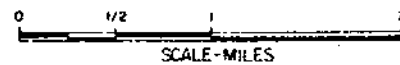
- 2a. MASSIVE ANDESITIC FLOWS AND VOLCANIC BRECCIA. ▲▲▲
- 2b. THIN BEDDED ANDESITIC TUFF
- 2c. INTERBEDDED CALCAREOUS ARGILLITE AND SILTSTONE
- 2d. GRAY, THIN BEDDED LIMESTONE

PENNSYLVANIAN AND PERMIAN

- Cache Creek Group volcanic arenite, greenstone, cherty argillite, limestone, limestone breccia, minor bedded tuff and chert

SYMBOLS

- BEDDING, TOPS NOT KNOWN
- BEDDING, TOPS KNOWN
- SCHISTOSITY
- INFERRED FAULT
- ▲Cu MINERAL OCCURRENCE
- Fossil LOCALITY
- Fossil LOCALITY TAKEN FROM G.S.C. MAP 3, 1966
- ROAD



Department of
Mines and Geology
Resources
ASSESSMENT REPORT
No. 4817 MAP #1

4817 M1

Figure 1



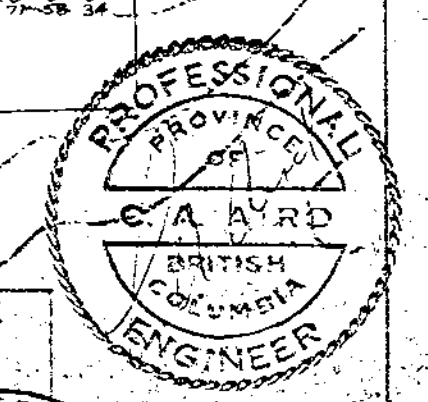
STREAM
 WATER BODY
 ROAD

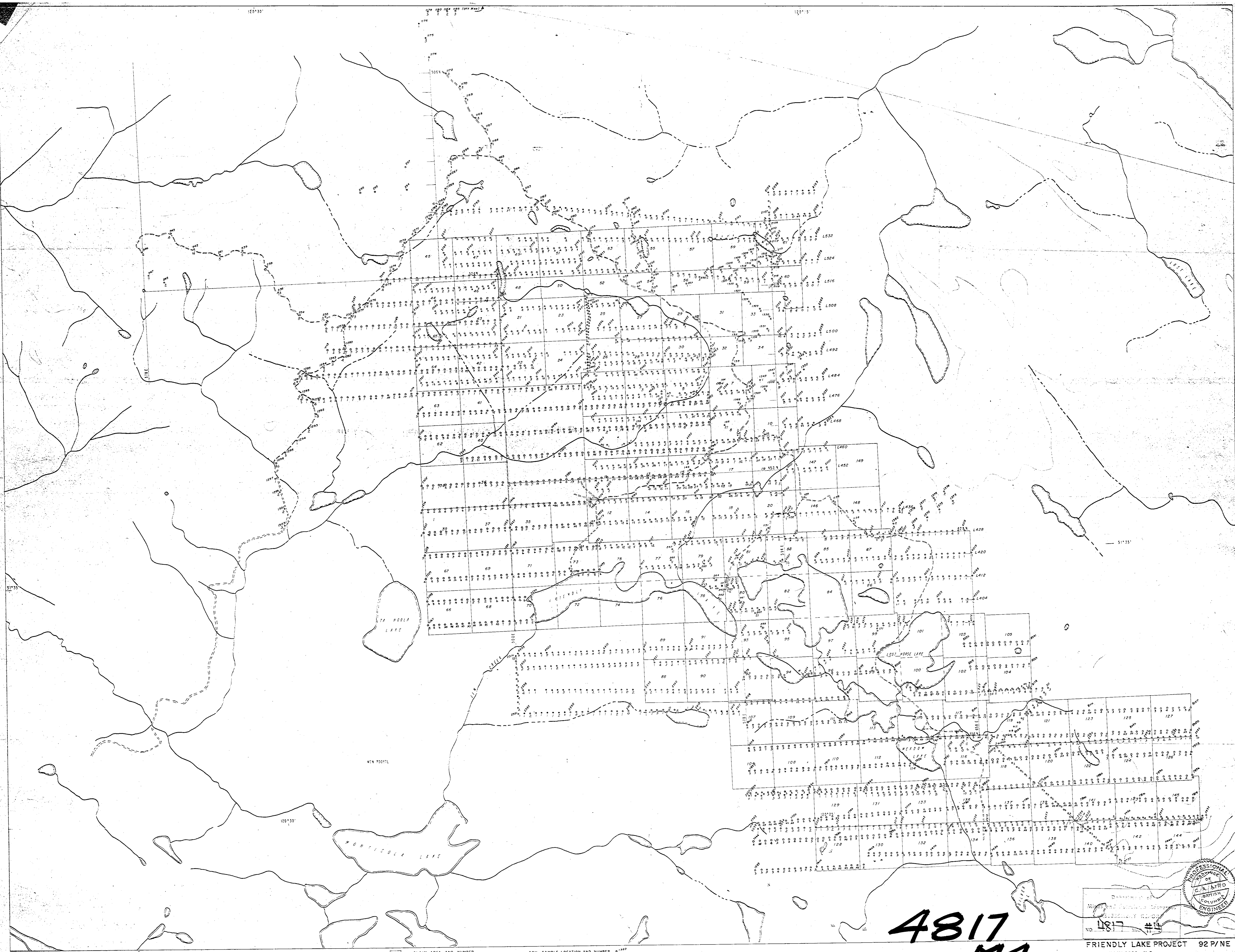
CLAIM AREA AND NUMBER
 SOIL SAMPLE LOCATION AND NUMBER
 GEOCHEMICAL VALUE (PPM)

To Accompany a Report by W.J.Hill Dated Dec. 1973

4817
M3

Department of
 Mines and Petroleum Resources
 GEOCHEMICAL MAP
 ASSESSMENT REPORT
 NO. 4817 M3
 FRIENDLY LAKE PROJECT 92 P/NE
 KAMLOOPS M.D.
 COPPER
 SCALE - FEET
 1000 2000





- - - - - STREAM
 ○ WATER BODY
 ——— ROAD

24 CLAIM AREA AND NUMBER
 SOIL SAMPLE LOCATION AND NUMBER
 GEOCHEMICAL VALUE (PPM)

To accompany a Report by W.J. Hill Dated Dec. 1973

**4817
M4**

PROFESSIONAL
 ENGINEER
 OF
 C.A. 1470
 BRITISH
 COLUMBIA
 ENGINEER

No. 4817 M4

FRIENDLY LAKE PROJECT 92 P/NE
 KAMLOOPS B.C.
 GEOCHEMICAL MAP
 1000 2000
 SCALE - FEET

FIGURE 5



3" STREAM
 WATER BODY
 ROAD

24 CLAIM AREA AND NUMBER
 SOIL SAMPLE LOCATION AND NUMBER
 GEOCHEMICAL VALUE (PPM) 90

Department of
 Mineral Resources
 GEOCHEMICAL MAP
 LEAD
 NO. 4817
 SCALE - FEET
 1000 1500 2000
 FRIENDLY LAKE PROJECT 92 P/NE
 KAMLOOPS M.D.
 GEOCHEMICAL MAP
 LEAD
 NO. 4817
 SCALE - FEET
 1000 1500 2000



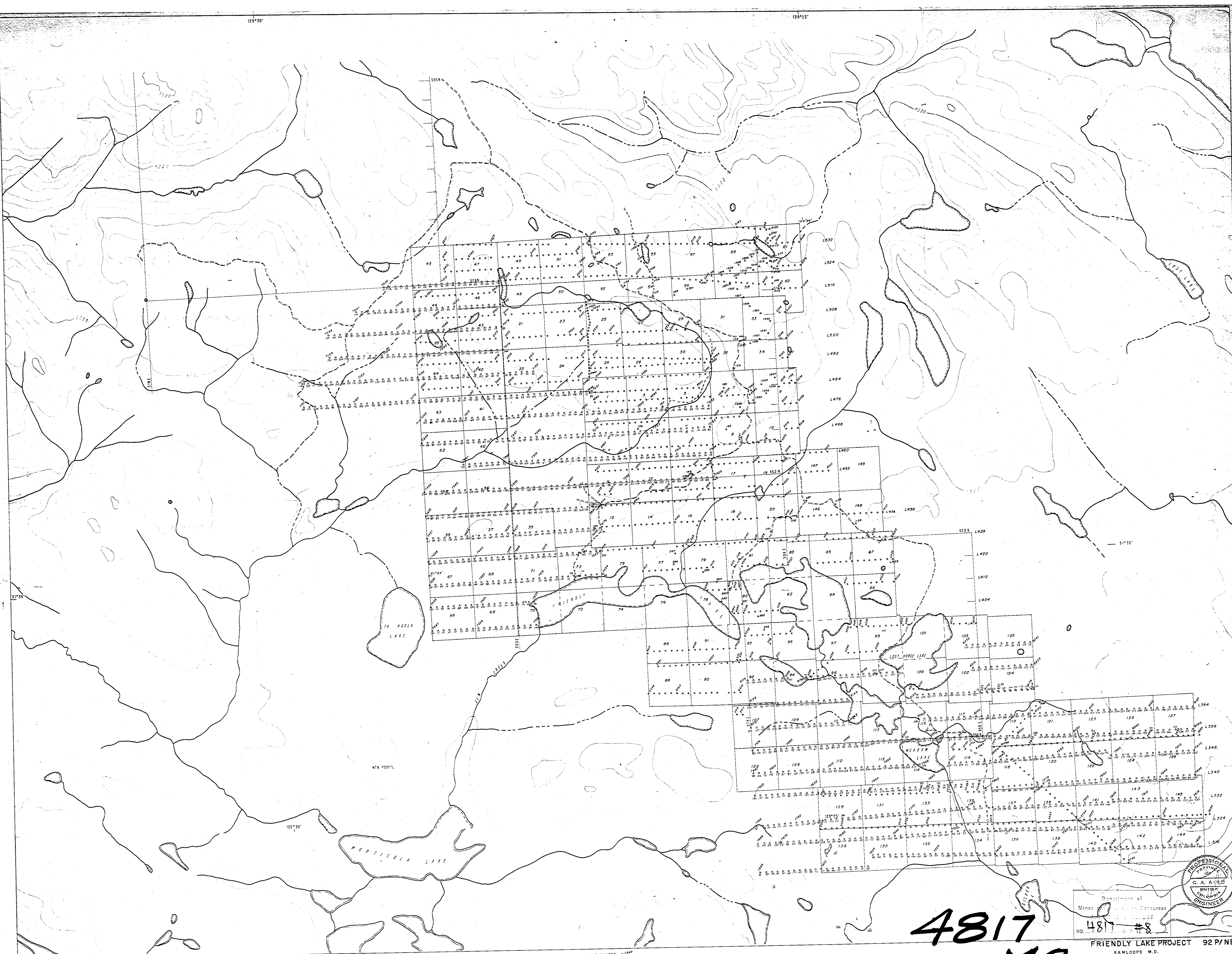
--- STREAM
 --- WATER BODY
 --- ROAD

24 CLAIM AREA AND NUMBER
 SOIL SAMPLE LOCATION AND NUMBER
 GEOCHEMICAL VALUE (PPM) *60

4817
M6

Department of
 Mines and Petroleum Resources
 ENVIRONMENTAL SERVICES
 NO. 4817 M. 6
 PROFESSIONAL ENGINEER
 FRIENDLY LAKE PROJECT 92 P/NE
 KAMLOOPS B.C.
 GEOCHEMICAL MAP
 SCALE - FEET
 1000 0 1000 2000
 FIGURE 8

To Accompany a Report by W.J.Hill Dated Dec. 1973



STREAM
 WATER BODY
 ROAD

24 CLAIM AREA AND NUMBER

SOIL SAMPLE LOCATION AND NUMBER
 GEOCHEMICAL VALUE (PPM) *60

To accompany a Report by W.J. Hill Dated Dec. 1973

4817 MB

Department of
 Mines and Technical Surveys
 Geological Survey of Canada
 NO. 4817 MB
 FRIENDLY LAKE PROJECT 92 P/NE
 KAMLOOPS M.D.
 GEOCHEMISTRY - ZINC
 1000 0 1000 2000
 SCALE - FEET