

84-#928 - 12626
8

A GEOLOGICAL, GEOCHEMICAL AND PHYSICAL
REPORT ON THE HOT LAKE GROUP

CASSIAR DISTRICT
LIARD MINING DIVISION

OWNER/OPERATOR: Erickson Gold Mining Corp.
WORK DONE ON: Bear 1 - 3 and DK6 Mineral Claims
WORK PERFORMED: July 3 to July 30, 1984
LOCATED: NTS 104P/5E
59° 19' N 129° 31' W
BY: R. Basnett, Geologist; under the
direction of R. Somerville, P. Eng.
DATE: October 15, 1984

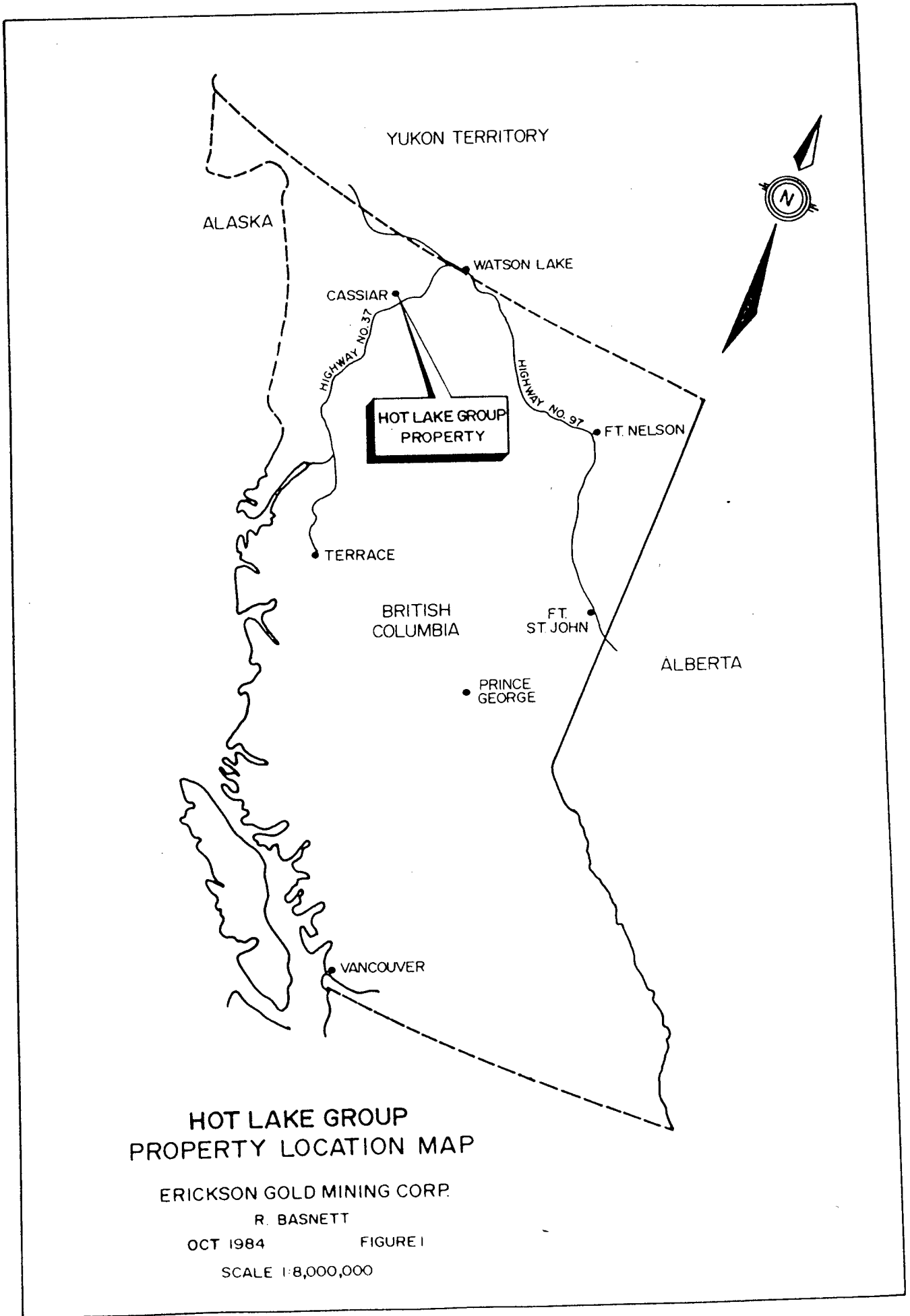
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,626

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**HOT LAKE GROUP
PROPERTY LOCATION MAP**

ERICKSON GOLD MINING CORP.

R. BASNETT

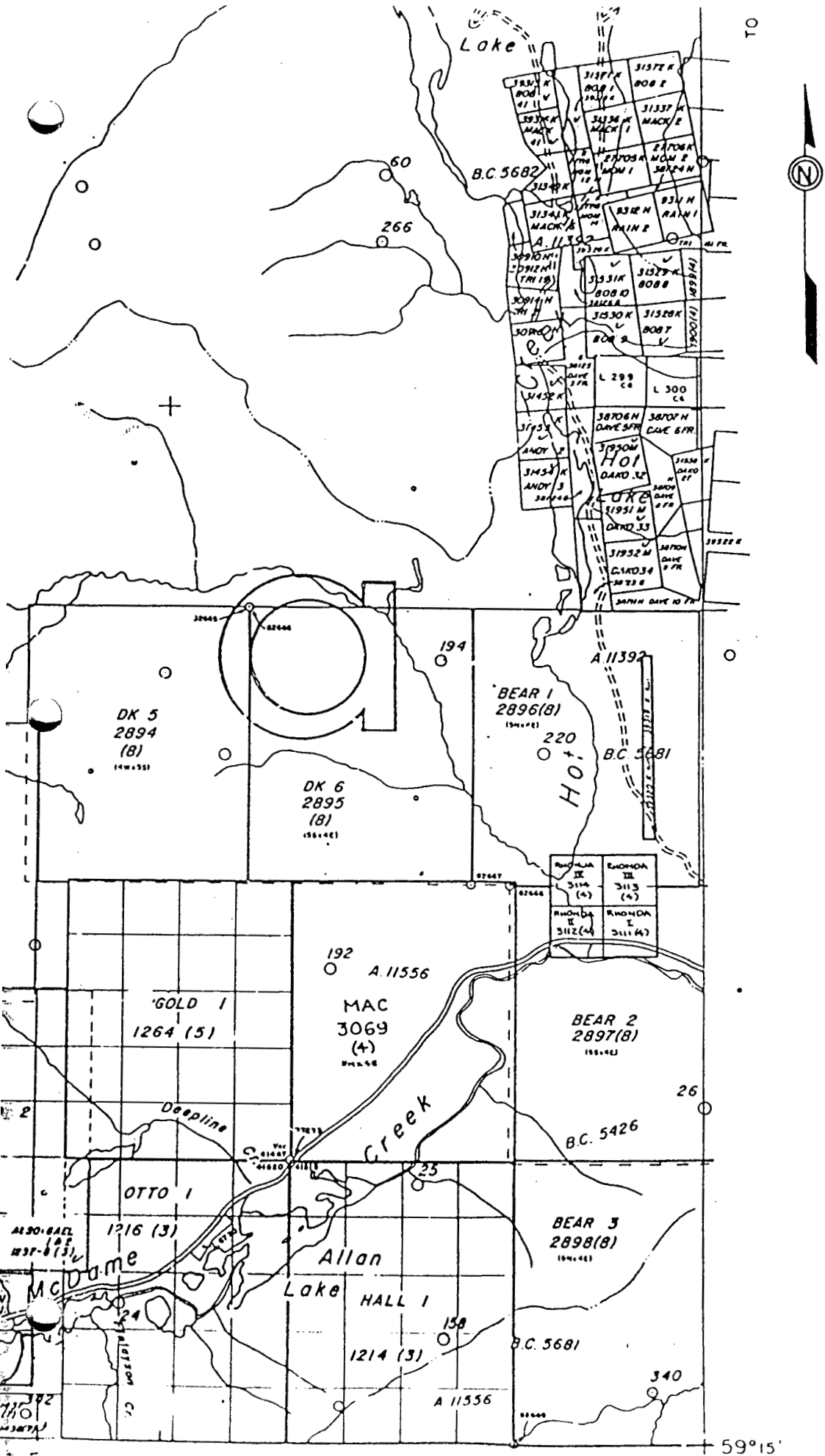
OCT 1984

FIGURE 1

SCALE 1:8,000,000

0.0 CLAIM RECORD
HOT LAKE GROUP

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Owner/Operator</u>	<u>Fmc#</u>
DK6	20	2895	Aug. 8/83	Erickson Gold Mining Corp.	26421
Bear 1	20	2896	Aug. 8/83	" " " "	"
Bear 2	20	2897	Aug. 8/83	" " " "	"
Bear 3	20	2898	Aug. 8/83	" " " "	"



**HOT LAKE GROUP
CLAIM MAP**
CASSIAR DISTRICT
LIARD MINING DIVISION
104 P/5E
SCALE 1:50,000
Claim boundaries approximate
Survey by chain and compass
FIG. 2

1.0 Introduction

This report describes the results of the geological mapping, soil geochemistry, linecutting and grid establishment carried out during the 1984 field season. Maps showing the property location, claims, location of cut line, grid and soils, and geological mapping are included.

2.0 Location and Access

The property is located in northern British Columbia, 19 km east of the town of Cassiar. The geographic coordinates are 59°19' north latitude and 129° 31' west longitude.

Access is by road from Watson Lake, Yukon Territory which is approximately 150 km to the NNE of the property or from Kitwanga, which is 655 km south of the property. Highway 37 cuts across the northern portion of the Bear 2 claim.

3.0 Topography

The Hot Lake Group claims are located in mountainous terrain with valleys at 900 m elevation and peaks at 1670 m elevation. Valleys are swampy with alders and buckbrush. Alpine slopes begin at 1370 m elevation where spruce and fir no longer survive.

Bear 1 is located in the Hot Creek valley and is on relatively gentle slopes below treeline and covered by spruce and fir trees with alder growing in wet areas. The entire claim has been glaciated limiting rock exposures to steep areas and cliff faces.

Bear 3, located south of Bear 1 is also covered with glacial material but a northwest-southwest ridge provides good rock exposure in the central portion of the claim.

4.0 History

The Cassiar District has been prospected since the 1800's and the interest was stimulated after 1874 when placer gold was first discovered on McDame Creek. The Bear 2 mineral claim actually covers the former placer grounds of Centerville. Because of these placer grounds, the area has undoubtedly been staked a number of times in the latter half of this century. Copper, lead, silver, and barite mineral occurrences in the vicinity of Hot Lake also have been an attraction to the area but other than cut lines and blazed trees, there is little evidence of previous work on the Hot Lake Group.

In 1980 DeKalb Mining located the DK6 mineral claim. Prospecting, geochemical, geological and geophysical surveys were conducted on this claim by DeKalb during the 1980, 1981, and 1982 field seasons. Erickson acquired this claim in 1982 and carried out a prospecting and sampling program in the summer of 1983.

In 1983 Erickson staked Bear 1, Bear 2 and Bear 3 claims. Erickson Gold Mining Corp. conducted field surveys on the Bear 1 and Bear 3 claims during the 1984 season.

5.0 Summary of Work

In the 1984 field season three geologists, two soil samplers, and two linecutters carried out a regional survey on the Bear 1 and Bear 3 claims in 17 days. This involved geological mapping, soil geochemistry, grid establishment and linecutting.

Mapping was done on the Bear 1 and Bear 3 claims on 1:10,000 and 1:5,000 scale topographic maps. The soil grid covers the east half of the Bear 1 claim from which 180 soil samples were collected and analysed for Cu, Pb, Zn, Ag and Au. Six rock chip samples were taken. The maps showing the results are found in the back pocket of this report.

TERTIARY AND (?) EARLIER

Conglomerate

11 Kechika, Sandpile, Atan loosely cemented.

AGE UNKNOWN - INTRUSIVES

Dykes

- 10a Diabase
- 10b Andesite - dacite
- 10c Aplitte

Quartz Veins

9 Often containing sulphides (tetrahedrite arsenopyrite), graphite and sometimes visible gold.

UPPER CRETACEOUS

8 Cassiar Stock quartz monzonite porphyry.

AGE UNKNOWN

Listwanite altered basic to ultrabasic rocks, may contain veinlets of quartz, dolomite, brucite and talc.

- 7a Serpentine, chlorite, carbonate, with minor talc.
- 7b Talc, carbonate, minor chlorite.
- 7c Quartz, mariposite, carbonate and minor talc.
- 6 Diorite; volcanic plug ? Sill ?; locally fine-grained feldspar porphyry.

MISSISSIPPIAN TO ? PERMIAN

SYLVESTER GROUP

Interbedded Sediments - 5D

- 5Da Greywacke
- 5Db Siltstone
- 5Dc Sandstone
- 5Dd Argillite
- 5De Limestone (continuous pods)
- 5Df Chert

Interbedded Volcanics - 5C

5Ca Dacite to andesite flows, with or without pillows, occasional local phenocrysts of feldspar or pyroxene.

5Cb Dacite to andesite tuff breccia and/or flow breccia, with local phenocrysts of feldspar or pyroxene.

5Cc Rhyolite, sills and/or dykes.

5Cd Argillaceous tuff and breccia.

5Ce Cherty tuff

5d Chert, tuff chert, includes some argillite, in northeast well layered chert - phyllite, tuff chert, ribboned chert and argillite.

5a Argillite, siltstone, chert, quartzite limestone pebble conglomerate, tuff includes numerous diabase and andesite sills.

MIDDLE AND UPPER DEVONIAN

McDAME GROUP

4a Dolomite (black) and limestone (grey) - numerous veinlets and vugs of dolomite, occasional laminations and nodules of chert.

SANDPILE GROUP

3a Dolomite and dolomitic sandstone - dark grey to light grey, commonly laminated.

CAMBRIAN AND ORDOVICIAN

KECHIKA GROUP

2c Argillite, shale, slate - black to grey-black; mostly argillite with a pervasive mild slaty cleavage, some selections of shale and slate; cherty and calcareous sections throughout, laminated to bedded, pyrite occurs as fine disseminations up to 1X and as fine streaks.

2b Phyllite - black, friable, carbonaceous, with minor pyrite.

2a Argillaceous limestone - grey-black, massive, with argillite and shale fragments

CAMBRIAN

LOWER CAMBRIAN

Atan Group

1f Limestone - blue-grey to dark grey, laminated to well-bedded to massive, with flaggy patches and minor fragmental or breccia sections.

1e Recrystallized limestone (marble) - bluffy, white, massive and as stringers and patches in 5be, large rhombohedral crystals.

1d Dolomite - yellow, buff, brown, rose, crystalline, massive with some friable sections, minor pyritohedrons in the crystalline portions.

1c Quartzite - maroon, green, brown, and tan, well bedded with cross bedded sections, pyrite and lesser pyrrhotite as disseminations and stringers.

1b Hornfelsic quartzite - maroon, green, buff and brown; pure quartzite beds are crystalline, less pure beds are schistose and contain andalusite patches; chlorite clots occur in the chlorite-rich green beds; more abundant pyrite and pyrrhotite.

1a Shale and slate - black, grey and buff, laminated, pyritic, and carbonaceous, with some calcareous interbeds.

ALTERATION SYMBOLS

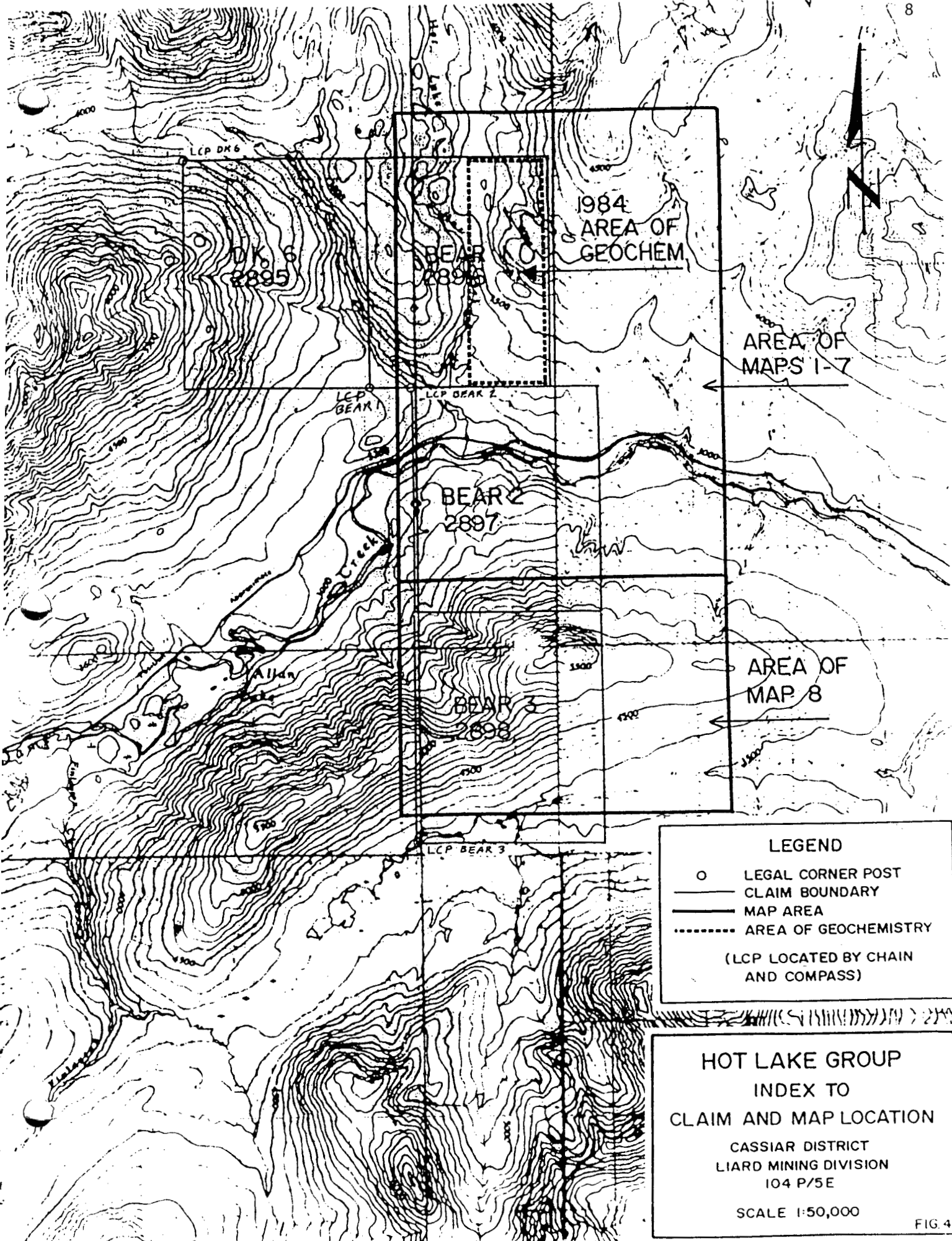
- | | | | |
|----|---------------------------------------|----|---|
| G | Graphite | Ch | Chlorite |
| K | Clay (Kaolinite, montmorillonite?) | EP | Epidote |
| M | Mariposite - Fuchsite | C | Calcite |
| S | Silicification | Sk | Stern: garnet diopside and garnet-actinolite - minor sheelite mineralization. |
| D | Carbonate: dolomite, siderite | | |
| CB | Crocidolite Breccia: fracture texture | | |

SYMBOLS

- Geological boundary (inferred, approximate)
- Quartz vein (inclined, vertical, dip unknown)
- Zone of alteration
- Floor

GEOLOGICAL LEGEND

FIGURE 3



LEGEND

- LEGAL CORNER POST
- CLAIM BOUNDARY
- MAP AREA
- AREA OF GEOCHEMISTRY

(LCP LOCATED BY CHAIN AND COMPASS)

HOT LAKE GROUP
INDEX TO
CLAIM AND MAP LOCATION

CASSIAR DISTRICT
 LIARD MINING DIVISION
 104 P/5E

SCALE 1:50,000

FIG. 4

6.0 Purpose

The purpose of the 1984 survey was to determine favourable stratigraphic, lithologic and structural settings for both gold bearing quartz veins as well as sediment-hosted Pb-Zn deposits. Mineralogic evidence of skarn deposits was also sought after in the vicinity of limestone bodies.

7.0 Geology and Mineralization

The Bear 1 and Bear 3 are underlain by Sylvester Group metasediments and volcanics of Lower Mississippian-Upper Pennsylvanian age lying in a NNW-SSE orientated synclinorium. Only the northwest corner of the Bear 1 contains older Cambrian rocks of the Atan Group. These include fine-grained grey dolomites and mature fine to medium-grained quartzites.

The Sylvester Group underlying the Bear 1 claim is composed of interbedded cherts and argillite striking NNW-SSE and dipping near vertical. Beds of ribbon cherts within the argillite are commonly 2-10 meters thick but may be up to 70 meters thick in local areas. These cherts are green to black and locally maroon coloured, ribbon-bedded chert. The argillite is black, graphitic, thin-bedded with foliation and bedding orientated near parallel. Thin beds of siltstone and sandstone are rare within the argillite.

Argillite and chert similar to what is found on Bear 1 is also present on Bear 3 as well as metavolcanics, diorite and ultramafics. The metavolcanics are medium-green coloured, mainly aphanitic but locally porphyritic, and massive to banded in texture. Diorite is dark-green and fine to medium-grained. The amphibolite-serpentinite body in the central portion of Map 8 is dark-green and locally altered to a rusty weathering, foliated talc-carbonate rich rock.

Local quartz veins within the Sylvester argillite are 20-30 cm wide and discontinuous. The most significant mineralization lies within the Atan Group dolomite in the northwest corner of the Bear 1 claim.

A rusty, limonitic, quartz-carbonate vein within the dolomite, orientated $050^{\circ}/70^{\circ}\text{E}$, contains replacement pods of massive pyrite, galena, and sphalerite. This vein is 20-30 cm wide and pinches and swells within the small area of rock exposure in which it is located. Approximately 100 meters northwest of this vein, just off of the Bear 1 claim, is a replacement pod of stibnite also within the dolomite.

8.0 Linecutting

A north-south baseline 2 meters wide extends the entire 2500 m length of the Bear 1 claim. This was cut with chainsaws to provide control for 12 east-west flagged lines each 700 m long. A total of 8400 m of line

was flagged and 2500 m of line was cut to establish the control needed for a geochemical survey (Map 1 in back pocket).

9.0 Soil Geochemistry

9.1 Field Procedures

Soil samples were taken at 50 m intervals along the east-west lines that are 200 meters apart. At each sample site a hole approximately 30 cm deep was dug with a mattock and soil from the B horizon was placed in a Kraft sample envelope with a garden trowel. Where the B horizon was not present, the bottom of the A horizon was sampled. A total of 180 samples were taken and sent to Min-En Laboratories Limited, 705 W 15th Street, North Vancouver, B.C., to be analyzed for Cu, Pb, Zn, Ag and Au.

9.2 Laboratory Procedure

Analytical Procedures For: Cu, Ag, Zn, Ag

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain

the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling the samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, Zinc and Silver are analysed using the CH_2H_2 -Air Flame combination.

Analytical Procedure for Au.

Geochemical samples for Gold processed by Min-En Laboratories Ltd. at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

ERICKSON GOLD MINING CORP.
 HOT LAKE GEOCHEMISTRY
 DISTRIBUTION OF CU IN SOIL SAMPLES

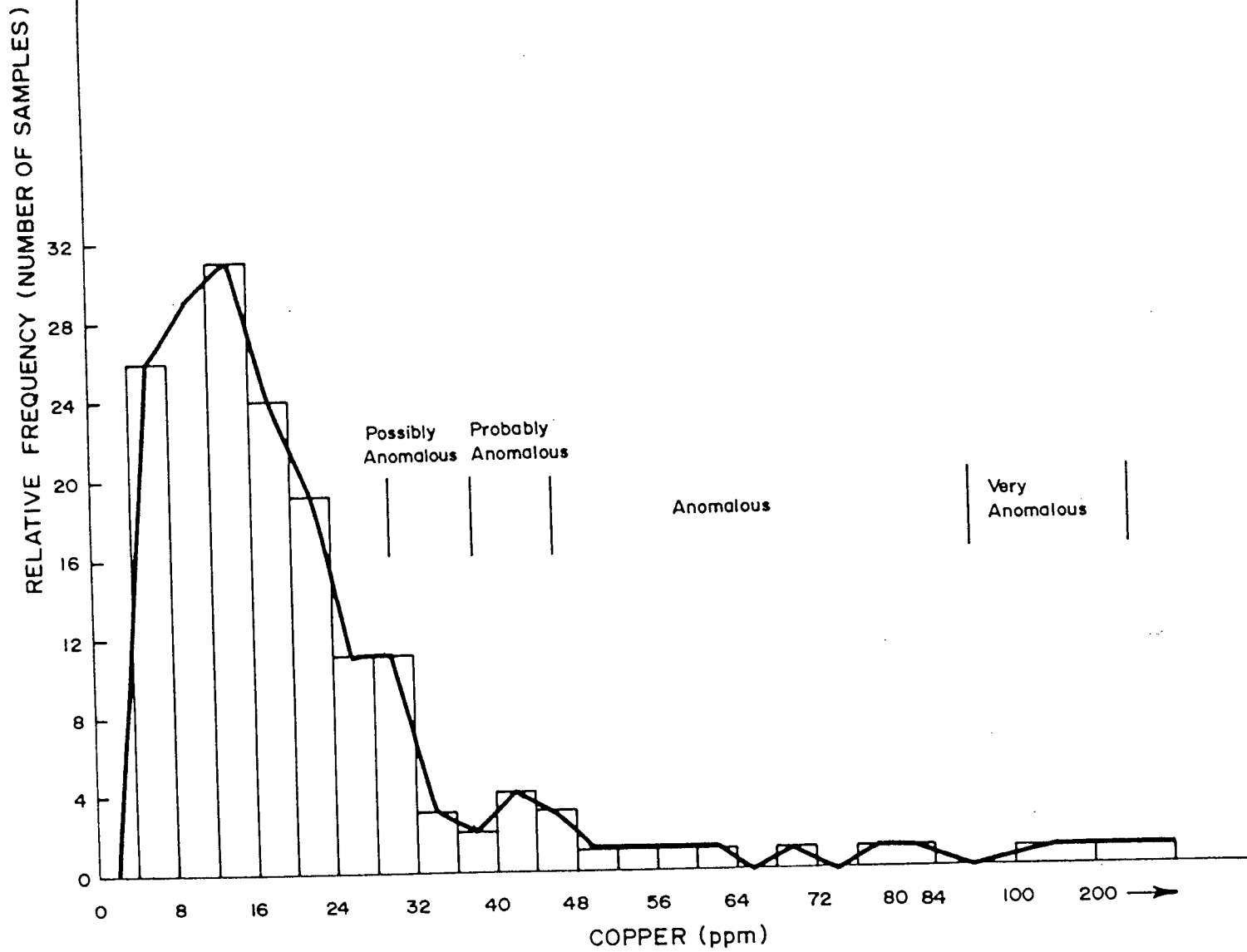


FIGURE: 5

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY
DISTRIBUTION OF CU IN SOIL SAMPLES

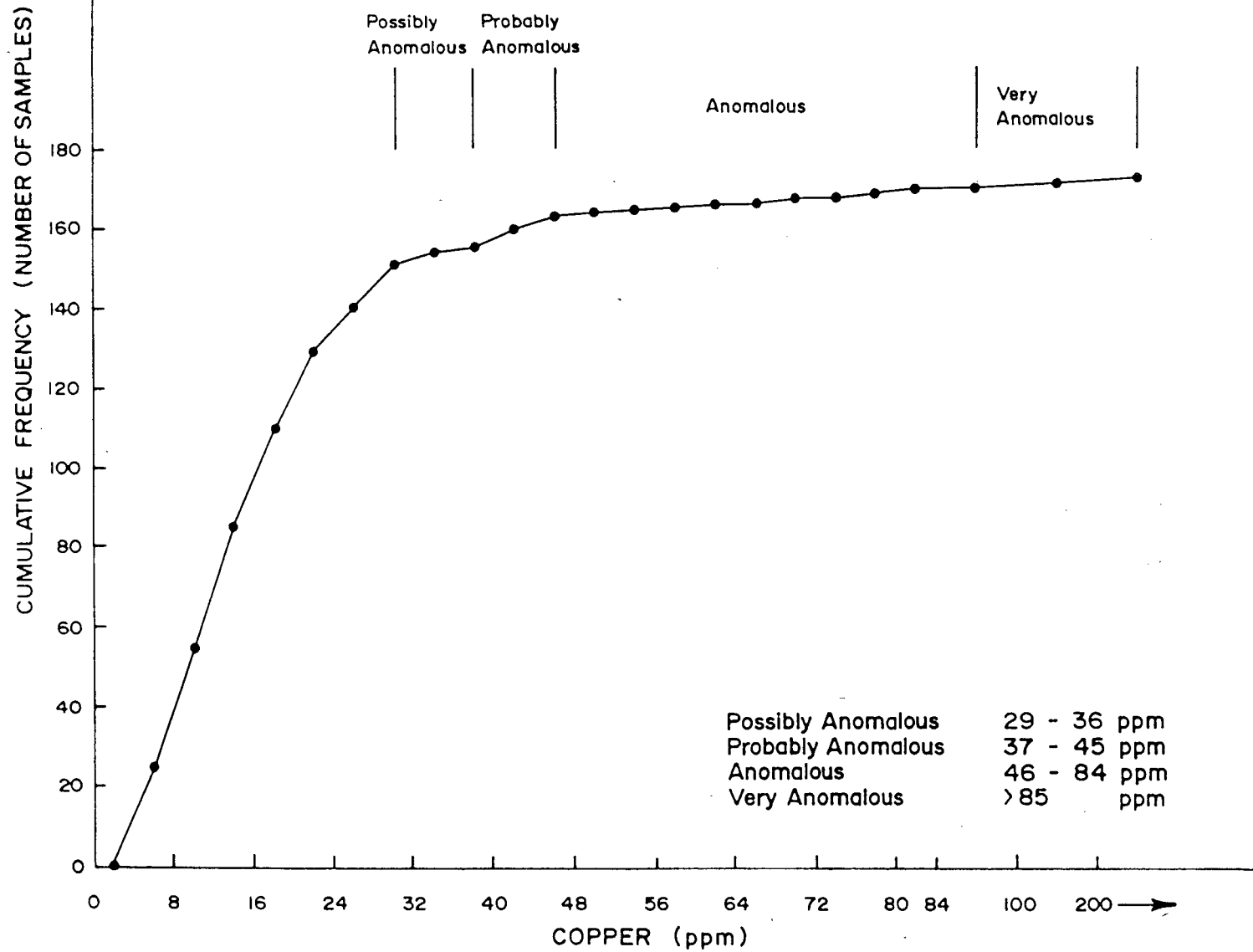


FIGURE 6

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY

DISTRIBUTION OF LEAD IN SOIL SAMPLES

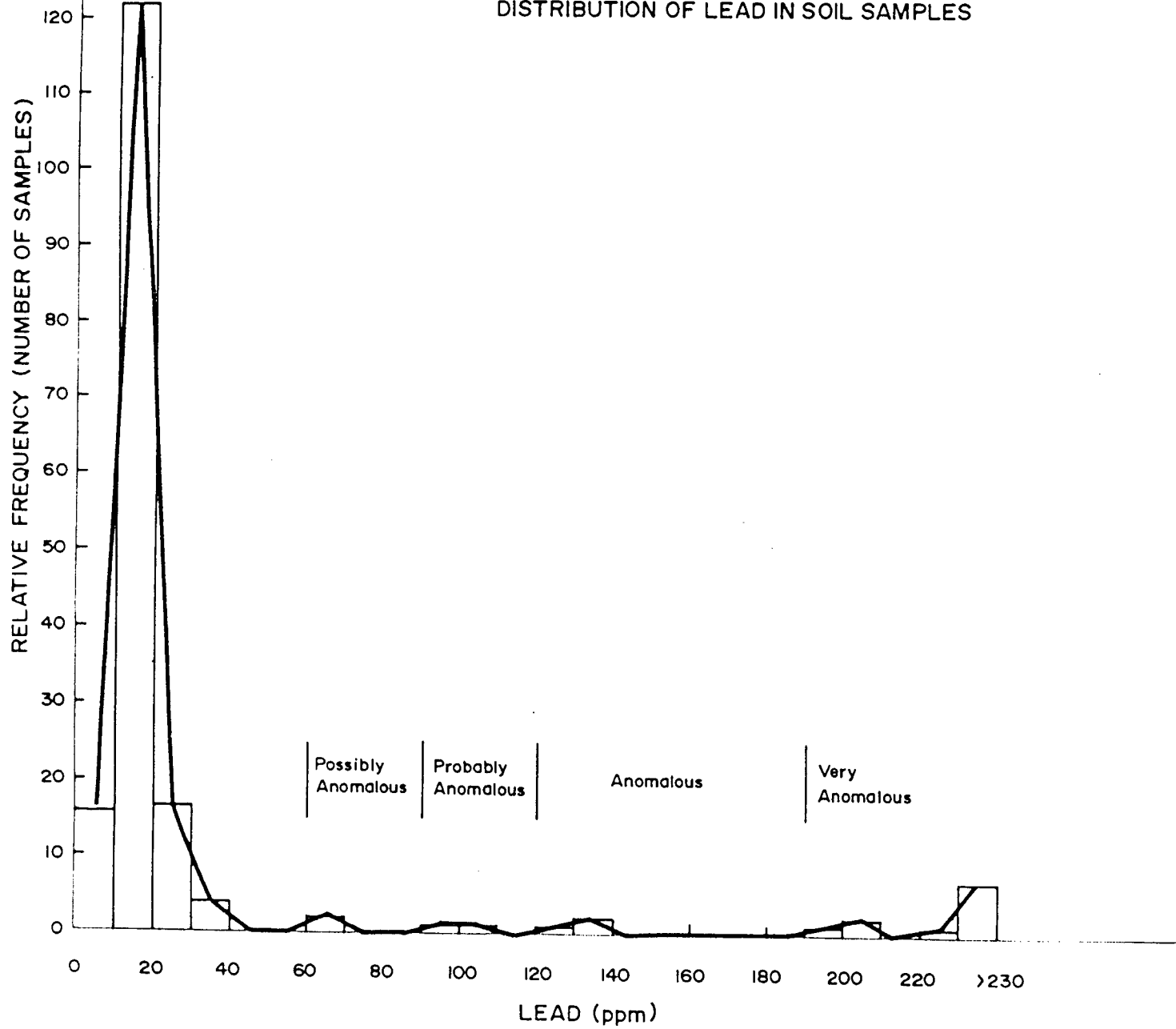


FIGURE 7

ERICKSON GOLD MINING CORP
 HOT LAKE GEOCHEMISTRY
 DISTRIBUTION OF LEAD IN SOIL SAMPLES

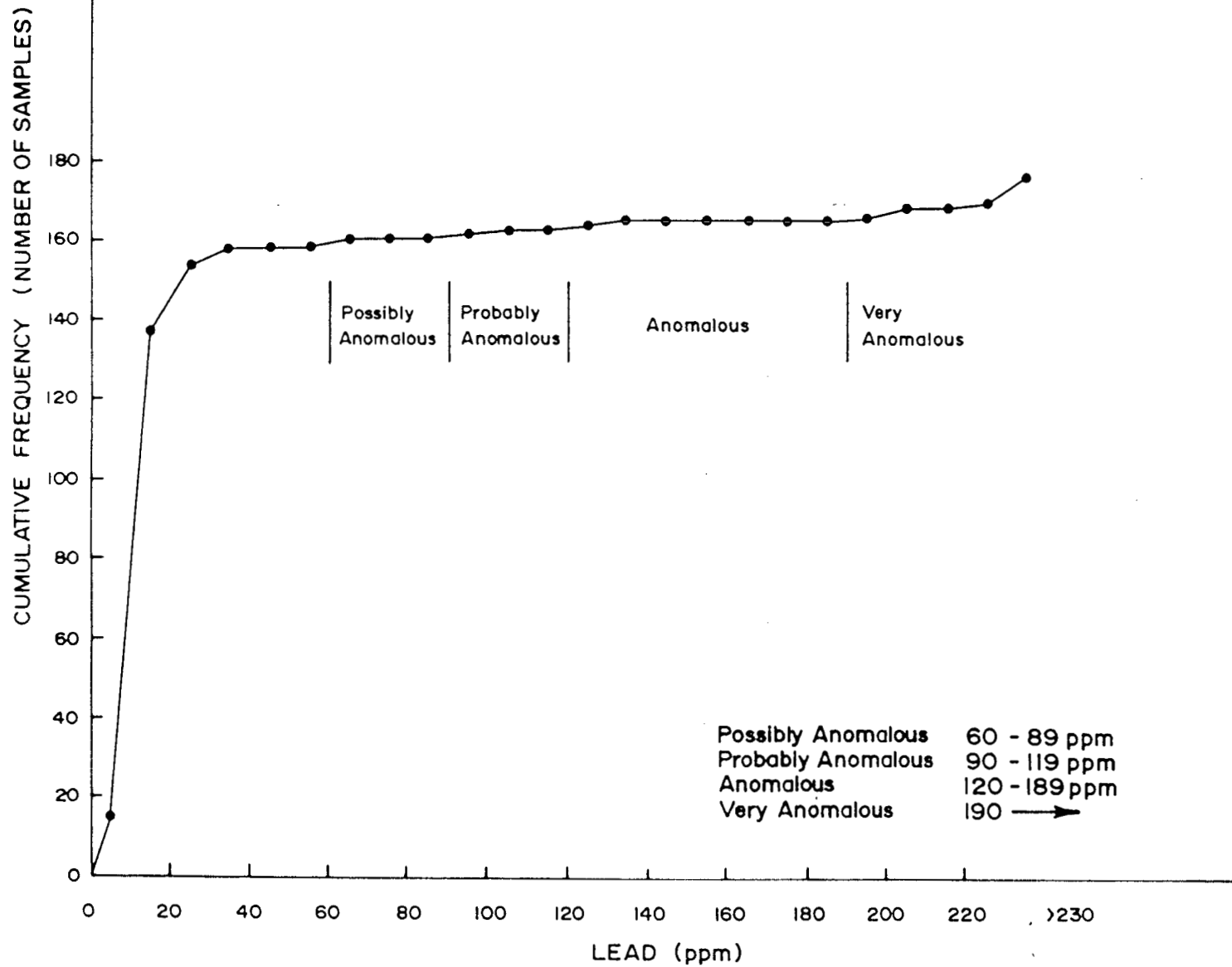


FIGURE 8

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY
DISTRIBUTION OF ZINC IN SOIL SAMPLES

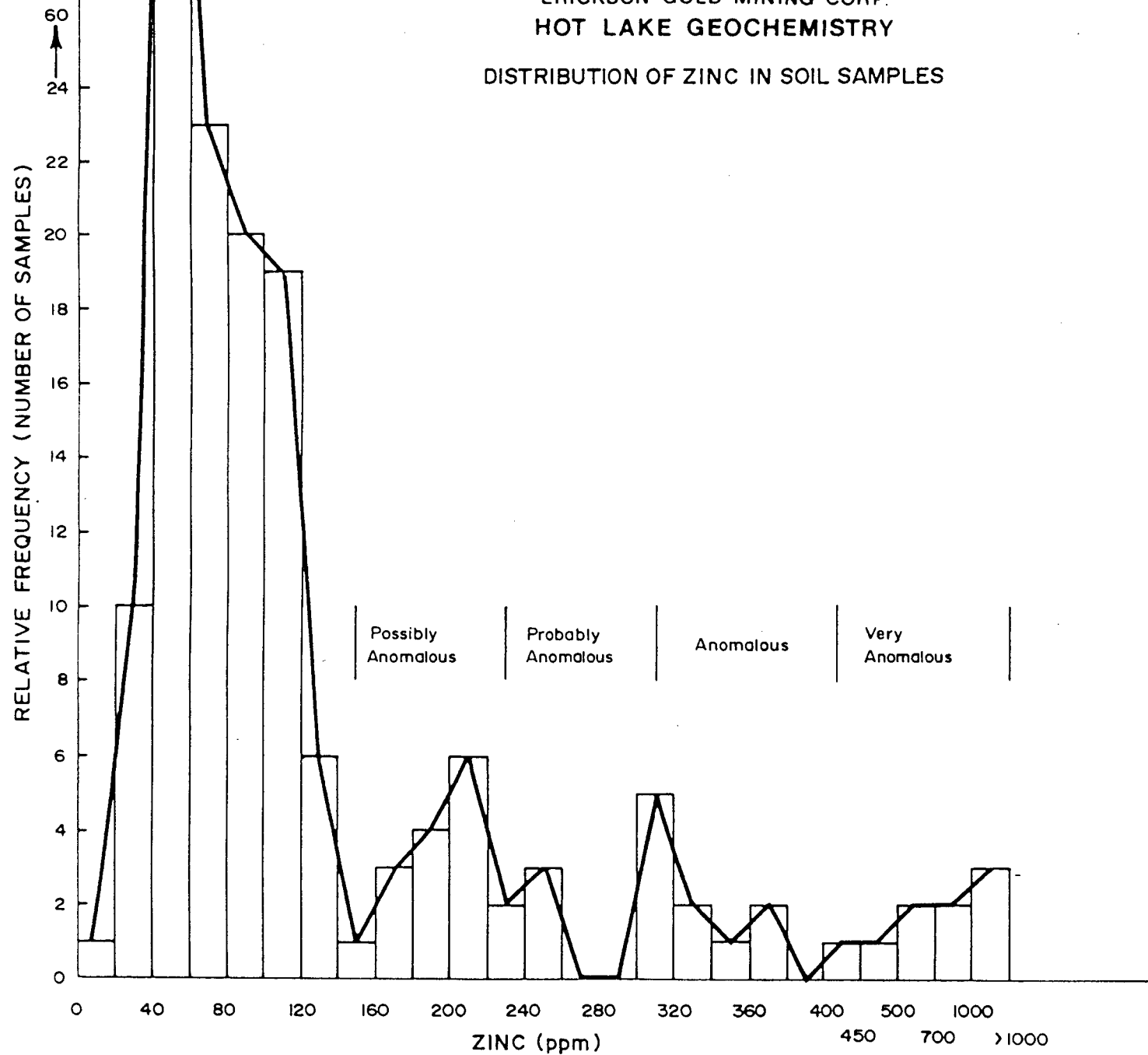


FIGURE 9

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY

DISTRIBUTION OF ZINC IN SOIL SAMPLES

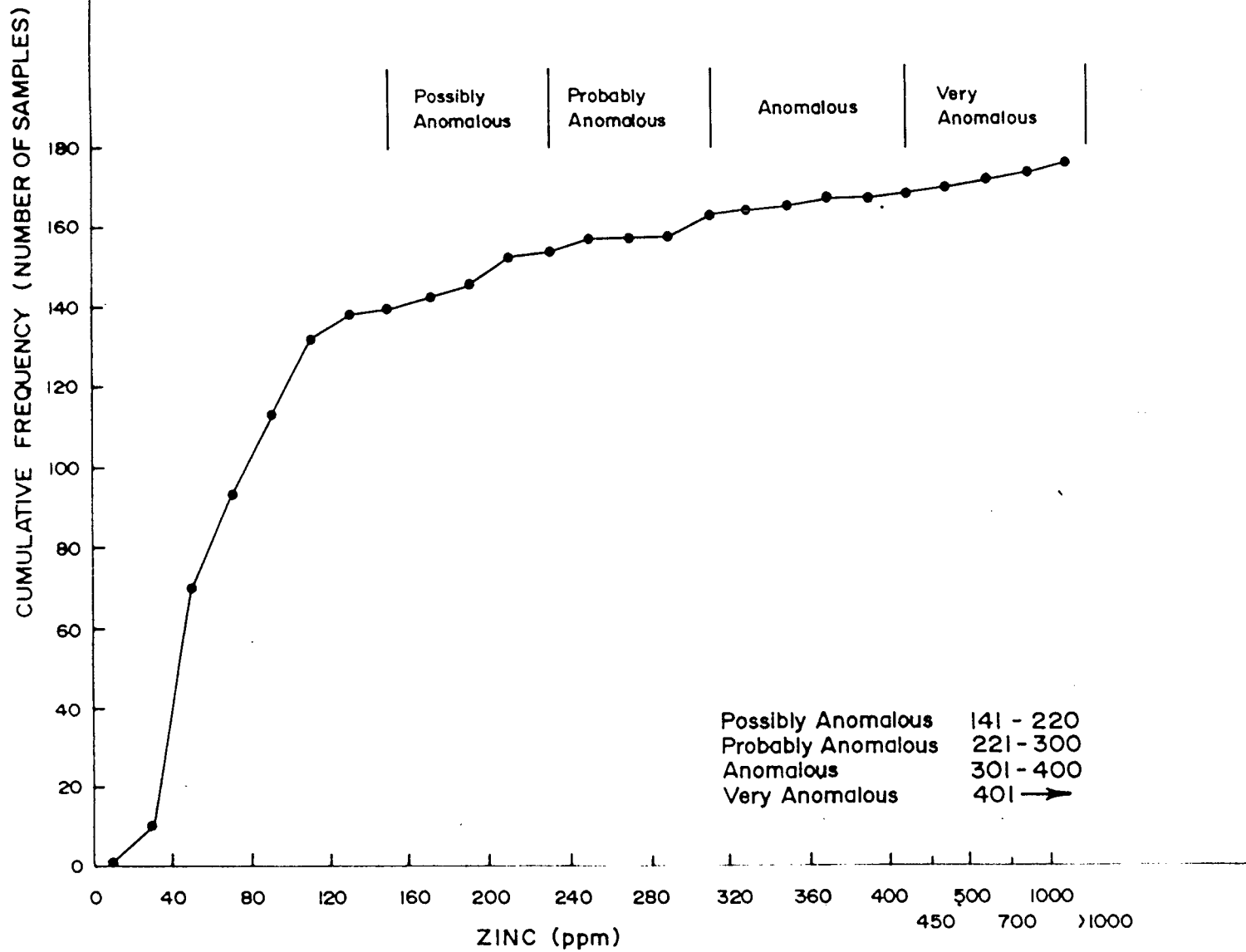


FIGURE 10

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY

DISTRIBUTION OF SILVER IN SOIL SAMPLES

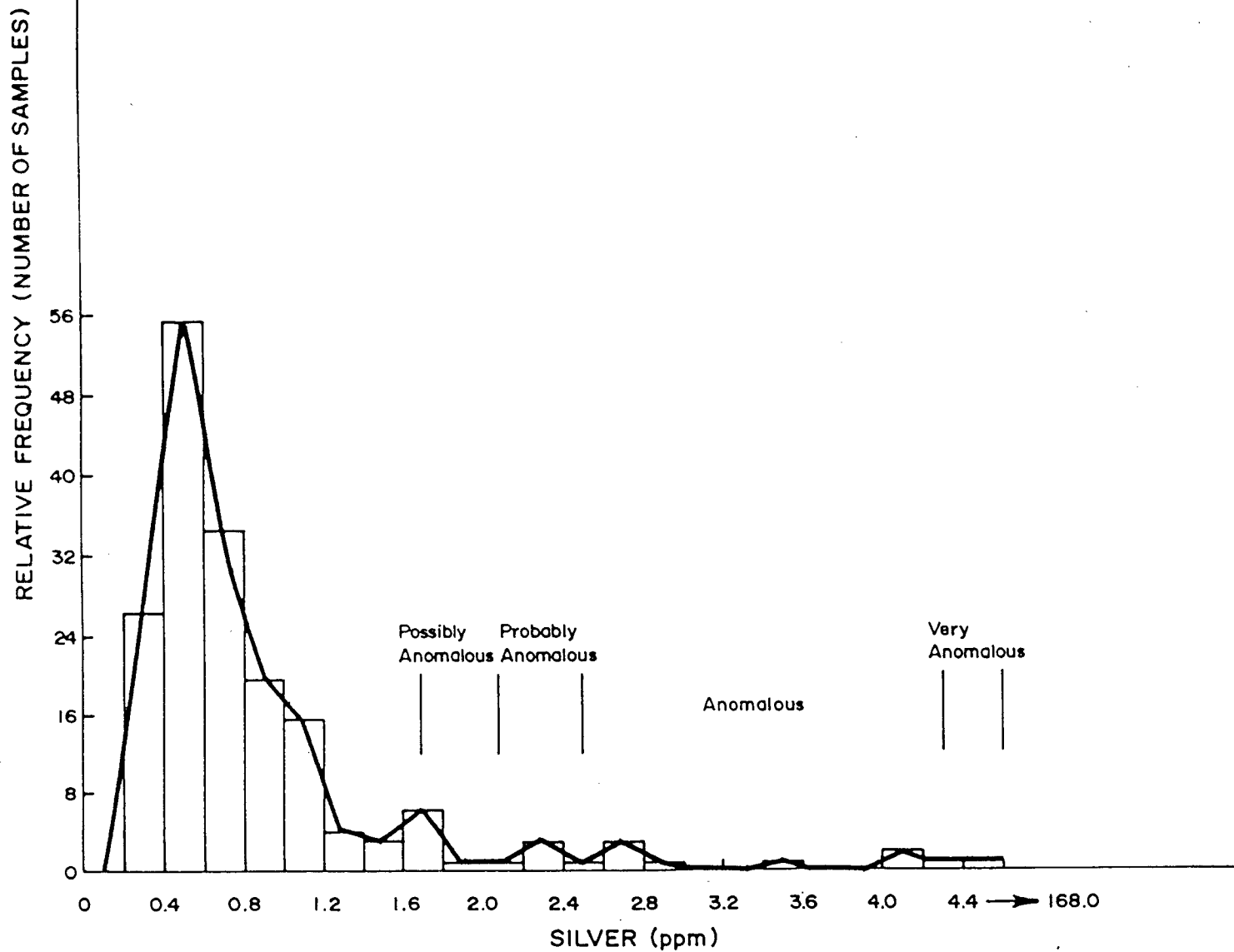


FIGURE II

ERICKSON GOLD MINING CORP.
HOT LAKE GEOCHEMISTRY

DISTRIBUTION OF SILVER IN SOIL SAMPLES

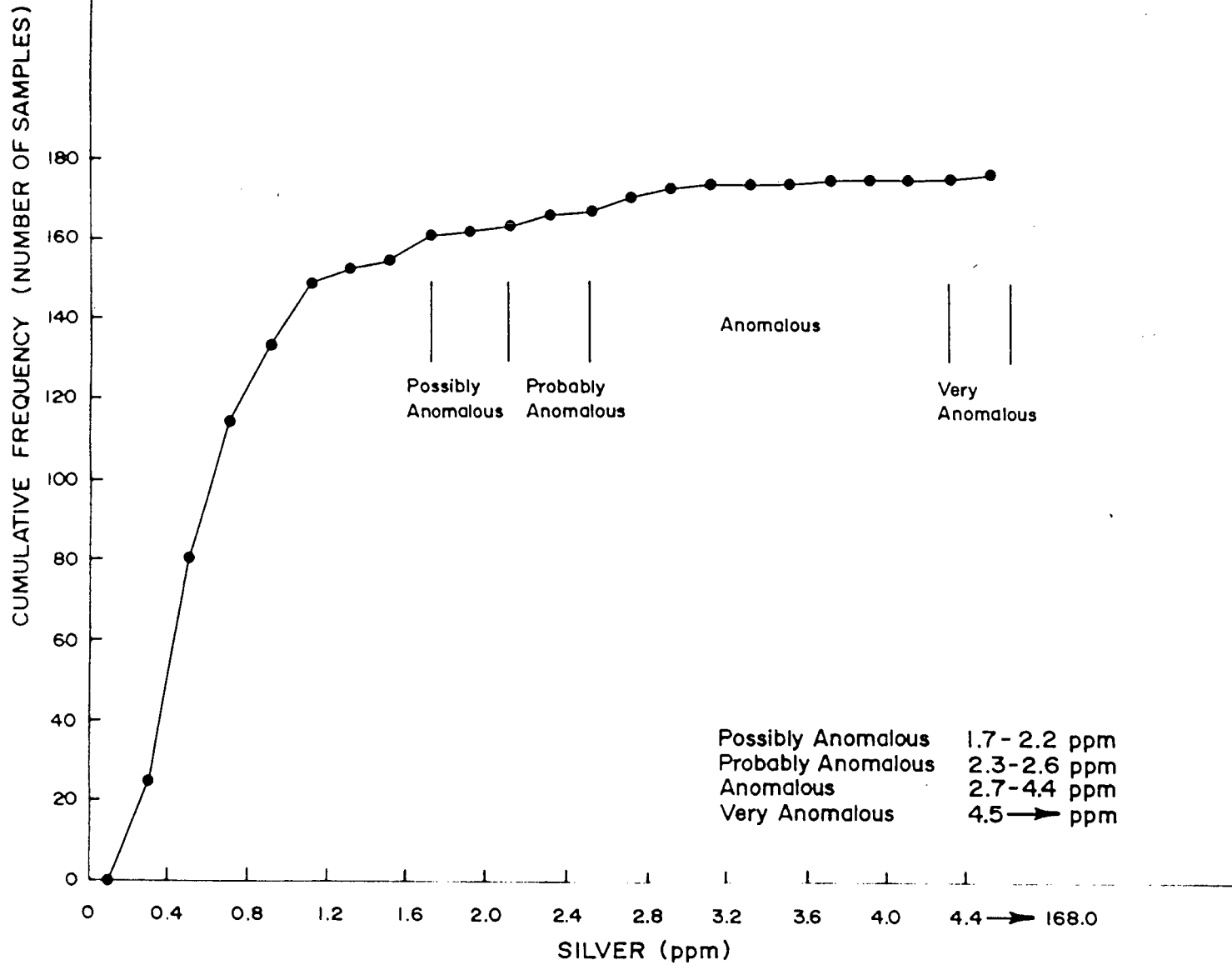


FIGURE 12

ERICKSON GOLD MINING CORP.
 HOT LAKE GEOCHEMISTRY
 DISTRIBUTION OF GOLD IN SOIL SAMPLES

RELATIVE FREQUENCY (NUMBER OF SAMPLES)

45
40
35
30
25
20
15
10
5
0

0 5 10 15 20 25 30 35 40 45 50 55 60 65

GOLD (ppb)

Possibly Anomalous 20-34 ppb
 Probably Anomalous 35-54 ppb
 Anomalous 55-64 ppb
 Very Anomalous 65 → ppb

Possibly Anomalous

Probably Anomalous

Anomalous

Very Anomalous

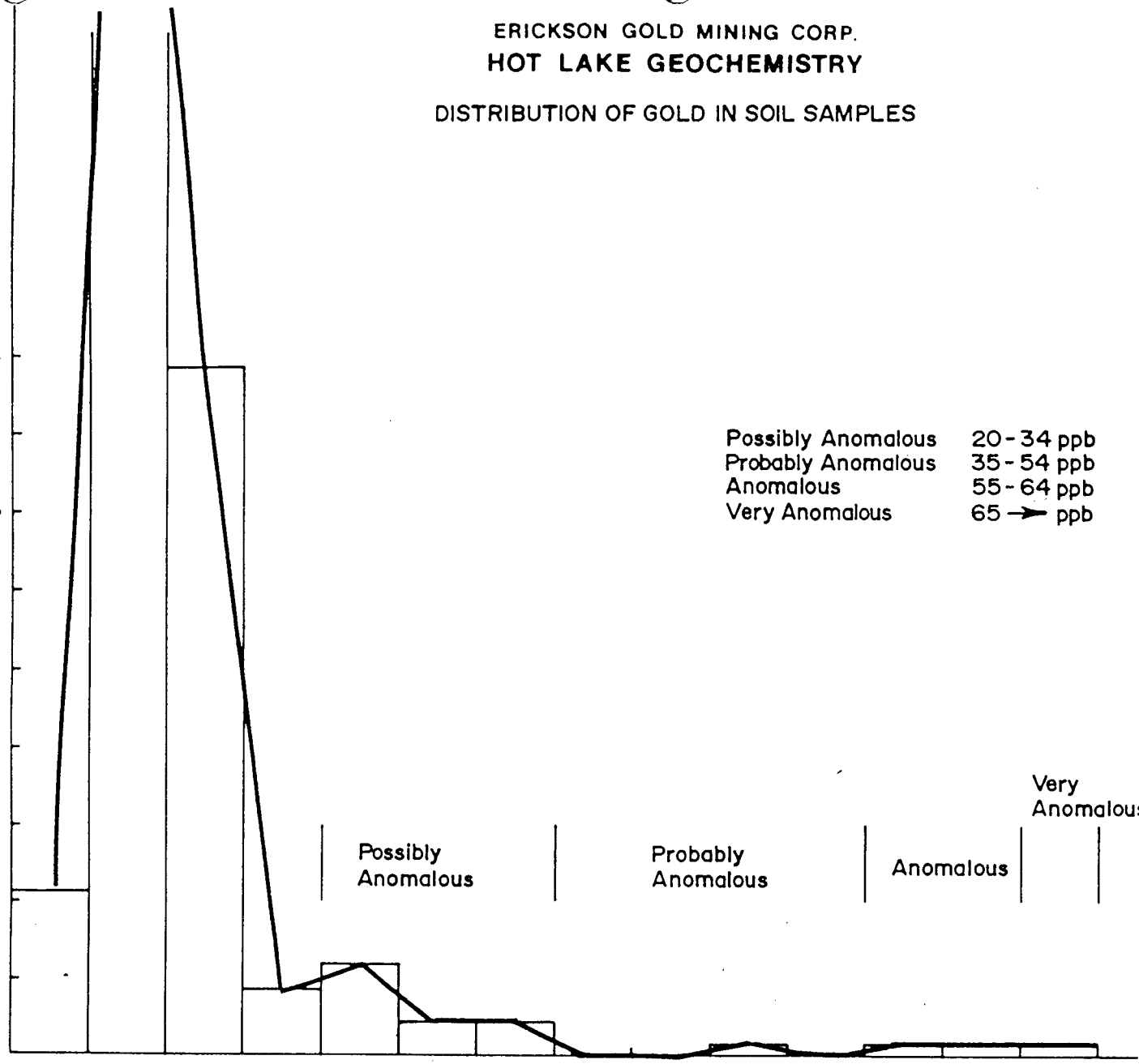


FIGURE: 13

9.3 Statistical Analyses

A histogram and a cumulative frequency curve were used to indicate possibly anomalous, probably anomalous, anomalous and very anomalous values.

Copper

A bell-shaped curve is seen on the histogram for Cu (Fig. 5). Anomalous distributions taken from this curve as well as the cumulative frequency curve (Fig. 6) are: 29-36 ppm, possibly anomalous; 37-45 ppm, probably anomalous; 46-84 ppm, anomalous; \geq 85 ppm, very anomalous.

Lead

A good bell-shaped curve and a gently sloping cumulative frequency curve indicates values 60-89 ppm, possibly anomalous; 90-119 ppm, probably anomalous; 120-189 ppm, anomalous; \geq 190 ppm, very anomalous.

Zinc

The histogram for zinc (Fig. 9) shows a classical bell-shaped curve as well as three smaller curves indicative of different populations. From this and the cumulative frequency plot values: 141-220 ppm are possibly anomalous; 221-300 ppm, are probably anomalous; 301-400 ppm, are anomalous; and \geq 400 are very anomalous.

Silver

Figures 11 and 12 show very classical curves on the histogram and cumulative frequency plot. The distributions are as follows: 1.7-2.2 ppm, possibly anomalous; 2.3-2.6 ppm, probably anomalous; 2.7-4.4 ppm, anomalous and ≥ 4.5 very anomalous.

Gold

Often statistical analysis is not performed on gold results because of erratic mechanical distribution. The simple histogram constructed (Fig. 13) for gold values in this report shows a very classical curve from which the distributions are: 20-34 ppb, possibly anomalous; 35-54 ppb, probably anomalous; 55-64 ppb, anomalous; and ≥ 65 ppb, very anomalous.

9.4 Interpretation of Anomalies

The copper anomaly winding through the central part of the grid (Map 2) has values that are anomalous but since there is only one very anomalous value of 228 ppm Cu on line 1920S, it is not considered significant.

The three northernmost lines show anomalous and very anomalous values in lead, zinc and silver. Galena, pyrite and stibnite mineralization has already been located in this area as well as a skarn boulder #D9674 that ran 1625 ppm Pb, 59 ppm Zn, 51 ppm Ag, 920 ppb Au and 60 ppm W.

A few zinc anomalous and subanomalous samples are found elsewhere on the grid but these are considered not to reflect significant mineralization but only slightly higher than background values in the argillite.

The silver anomalies other than the large anomaly on the three northern lines may be more than just local highs but since they do not have significant lead results associated with them, it is difficult to speculate their source.

A 190 ppb gold found in the soil on line 650S has not been followed up. This anomaly is located in an area of greater than ten feet of glacial till so its origin and validity is not known.

10.0 Conclusions

Geological mapping has indicated a favourable stratigraphic and lithographic setting for mineralization in the Atan Group sediments in the northwest corner of Bear 1 claim (Map 7). This area has a carbonate, quartz, galena and pyrite vein as well as a stibnite replacement pod within dolomite. The large Pb, Zn, Ag geochemical anomaly indicates this mineralization in part, but high results are found both upslope and downslope from the known mineralization.

The ultramafic body, volcanics, and sediments in the central area of Bear 3 (Map 8) indicates a similar structural setting to that of many gold mines in both

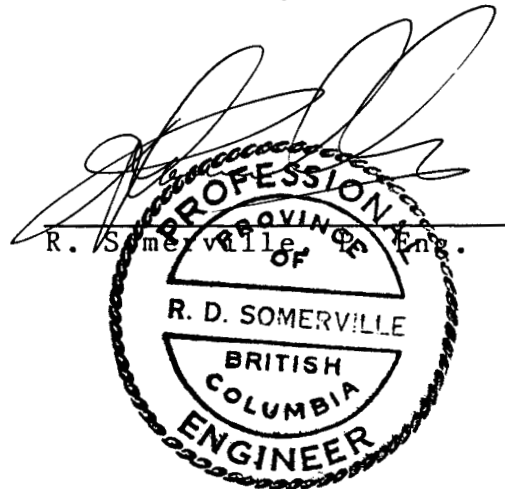
western and eastern Canada.

Except for a skarn boulder with tremolite, epidote, chlorite and Galena, no other evidence of skarns has been noted.

Respectfully submitted



R. Basnett, Geologist
under the supervision of:



12.0 STATEMENT OF QUALIFICATIONS

I Richard Basnett, of 5150 Fulwell St., Burnaby, B.C. do hereby certify that:

1. I am a graduate of the University of British Columbia B.Sc. 1975, a fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy. I have practised my profession for nine (9) years.
2. I am author of this report, which is based upon work under my personal supervision.

Respectfully submitted,



R. Basnett
Geologist

APPENDIX

GEOCHEMICAL ANALYSIS CERTIFICATES

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

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: ERICKSON GOLD MINES
 PROJECT: 95110
 ATTENTION: R. BASNETT

FILE: 4-678/P2
 DATE: AUGUST 3/84
 TYPE: SOIL GEOCHEM

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

SAMPLE NUMBER	CU PPM	FB PPM	ZN PPM	AG PPM	AU PPM	
HL 31	31	21	368	0.8	5	
32	15	13	319	0.4	5	
33	29	10	86	2.3	10	
34	14	14	36	0.6	5	
35	27	8	82	4.3	5	
36	63	22	52	1.7	10	
37	11	13	52	0.4	5	
38	13	12	70	0.6	5	
39	10	11	41	0.5	25	
40	5	7	72	0.3	<5	40MESH
41	14	15	60	0.7	5	
42	11	14	61	0.5	10	
43	28	12	330	1.0	5	
45	11	15	85	0.9	5	
46	7	13	79	0.5	5	
47	29	14	306	1.3	30	
48	9	14	66	0.8	5	
50	7	13	44	0.5	5	
51	8	14	50	0.7	10	
52	13	12	53	0.9	<5	
53	22	20	113	0.9	<5	
54	8	22	201	1.3	5	
55	7	15	98	0.7	5	
56	10	9	40	0.4	5	
57	8	13	55	0.4	<5	
58	13	13	61	0.6	5	
59	6	10	39	0.3	5	
60	13	14	56	0.3	10	
61	6	11	41	0.5	5	
HL 62	18	15	50	0.3	5	

Certified by



GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: ERICKSON GOLD
 PROJECT: 95110
 ATTENTION: R. BASNETT

FILE: 4-678/P3
 DATE: AUGUST 2/84
 TYPE: SOIL GEOCHEM

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

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB
HL63	13	13	58	0.6	5
64	7	7	51	0.3	15
65	24	13	59	0.6	20
66	9	8	51	0.3	5
67	18	11	53	0.5	10
68	11	9	45	0.6	10
69	17	12	46	0.5	15
70	6	12	80	0.5	5
71	14	11	50	0.4	5
72	13	14	52	0.7	<5
73	9	8	50	0.3	10
74	19	9	94	0.4	10
HL75	5	9	43	0.6	5
HE1	14	410	1780	1.8	5
2	31	205	538	2.3	10
3	28	465	964	4.1	10
4	21	132	304	1.5	5
18	21	18	208	1.7	5
19	13	15	195	1.2	10
20	19	14	53	1.8	20
21	228	26	165	4.2	5
22	17	14	107	1.7	45
23	23	13	43	0.8	10
24	72	20	64	2.3	5
25	29	15	42	1.2	20
26	26	17	40	1.0	10
27	21	15	361	0.5	10
28	20	21	74	0.5	10
29	9	18	51	0.7	10
HE30	8	19	201	0.5	5

Certified by *[Signature]*

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

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: ERICKSON GOLD MINING
 PROJECT: 95110
 ATTENTION: R. BASNETT

FILE: 4-678/P4
 DATE: AUGUST 4/84
 TYPE: SOIL GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 7 samples submitted.

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PFB	
BR 1	21	22	83	0.9	40	
2	15	16	68	1.1	5	
3	8	17	85	0.7	5	
4	67	19	161	1.3	5	
5	15	22	94	0.9	5	
6	20	23	70	0.7	10	
BR 7	21	20	68	1.0	225	40MESH

Certified by



GEOCHEMICAL ANALYSIS CERTIFICATE

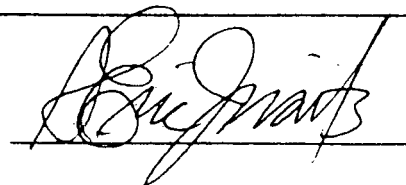
COMPANY: ERICKSON GOLD MINE
 PROJECT:
 ATTENTION: R. BASNETT

FILE: 4-724/P1
 DATE: AUGUST 10/84
 TYPE: SOIL GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 29 samples submitted.

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB
HL76	22	21	102	0.6	10
77	16	10	69	0.4	10
78	15	13	49	0.5	5
79	14	10	44	0.9	5
80	9	6	39	0.3	10
81	17	11	50	0.5	20
82	11	13	59	1.0	10
83	46	15	98	1.1	5
84	47	23	233	0.7	10
85	39	22	122	0.5	5
86	NO SAMPLE				
87	22	19	125	1.4	5
88	23	14	54	0.8	5
89	15	17	97	2.7	5
90	26	17	101	1.9	5
91	14	13	51	0.7	5
92	15	12	55	0.6	10
93	12	12	99	0.8	<5
94	19	10	106	0.9	5
95	43	19	238	0.6	5
96	31	11	82	0.6	5
97	11	12	40	0.5	5
98	23	24	184	0.5	<5
99	19	18	73	0.7	5
100	24	15	56	0.5	10
101	18	13	58	0.5	5
102	17	12	115	0.4	20
103	15	14	49	0.6	5
104	14	9	48	0.5	5
HL105	21	11	57	0.7	5

Certified by



MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

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

36

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

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

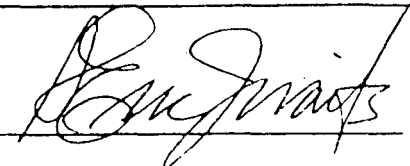
COMPANY: ERICKSON GOLD MINE
PROJECT:
ATTENTION: R. BASNETT

FILE: 4-724/P2
DATE: AUGUST 10/84
TYPE: SOIL GEOCHEM

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

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB
HL106	13	11	66	0.7	10
107	7	8	29	0.5	5
108	10	13	188	0.5	10
109	16	14	92	0.6	<5
110	58	18	90	0.7	5
111	17	12	94	0.5	5
112	16	13	55	0.3	5
113	38	19	107	0.5	5
114	7	10	34	0.4	10
115	12	13	113	0.8	10
116	9	9	32	0.6	5
117	84	18	116	1.2	15
118	12	12	62	0.7	5
119	13	17	82	0.3	5
120	11	14	51	1.0	5
121	13	16	103	0.6	10
122	12	13	103	0.5	30
123	8	5	32	0.3	5
124	10	14	49	0.4	5
125	15	10	43	0.4	10
126	55	17	208	0.9	10
127	21	11	64	0.5	5
128	22	16	78	0.3	<5
129	19	20	162	0.6	10
130	31	19	249	1.0	5
131	23	14	71	0.8	5
132	20	14	166	1.1	5
133	10	12	52	0.7	10
134	25	13	45	0.7	10
HL135	14	18	51	1.1	5

Certified by



GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: ERICKSON GOLD MINING
 PROJECT:
 ATTENTION: R. BASNETT

FILE: 4-724/P3
 DATE: AUGUST 11/84
 TYPE: SOIL GEOCHEM

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

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	AU PPB	SB PPM	
HL 136	14	11	53	0.7		5		
137	14	13	60	0.6		5		
138	15	13	48	0.7		20		
139	9	8	8	0.4		5		40MESH
140	12	10	429	0.5		190		40MESH
141	48	14	316	1.2		5		
142	17	14	45	0.6		5		
143	15	15	57	1.1		10		
144	17	15	74	0.7		5		
145	18	17	115	0.5		5		
146	13	11	50	0.4		10		
147	35	38	116	1.2		5		
148	20	24	106	0.6		5		
149	29	18	91	0.8		5		
HL 150	43	20	94	0.8		5		
HF 5	20	95	255	1.0		10		
6	18	62	102	1.5		5		
7	23	190	189	1.3		5		
8	24	122	357	1.0		10		
9	26	106	322	1.1		5		
10	17	12	101	1.2		5		
11	26	60	68	1.2		5		
12	34	34	42	2.7		10		
13	15	139	140	2.2		5		
14	16	12	40	0.8		5		
15	80	9	241	0.9		<5		
16	51	15	130	0.8		5		
HF 17	28	22	128	1.2		5		
AY 84-1	65	24	710	1.5	16	10	36	
AX-84-2	17	9	49	0.6	5	5	3	

Certified by 

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project **95110** Date of report **August 7/84**
 File No. **4-687** Date samples received **July 30/84**
 Samples submitted by
 Company **Erickson Gold Mines**
 Report on **1 rock assay prep.** Geochem samples
 Assay samples

Copies sent to:

1. **Erickson Gold Mine, Cassiar, B.C.**
2. **Erickson Gold Mining Corp., N. Vancouver, B.C.**
- 3.

Samples: Sieved to mesh Ground to mesh **-100**

Prepared samples stored discarded

rejects **assay prep** stored discarded

Methods of analysis: **Cu, Pb, Zn, Ag nitric, perchloric digestion A.A. analysis., Au aqua regia A.A. analysis., W multi-acid digestion.**

Remarks:

(4)

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

TELEX: 04-352828

GEOCHEMICAL ANALYSIS CERTIFICATE

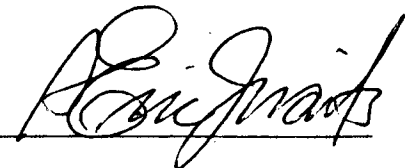
COMPANY: ERICSON GOLD MINES
PROJECT: 95110
ATTENTION: R. BASNETT

FILE: 4-678
DATE: AUGUST 7/84
TYPE: ROCK GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 1 samples submitted.

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	W PPM
D9674	15	1625	59	51.0	920	60

Certified by

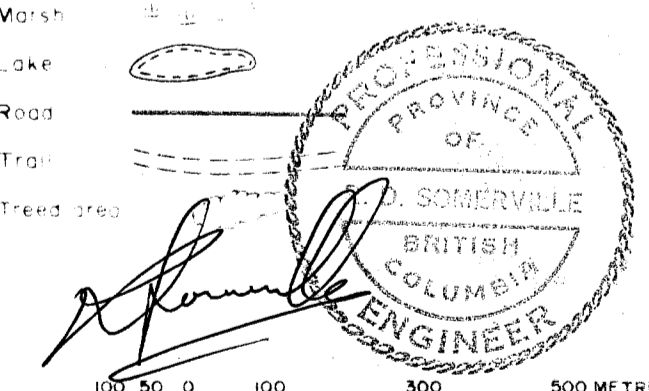


106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

SYMBOLS

- Rock outcrop, dated if outcrop flag \times (XXX) X
- Geological boundary (defined, approximate, inferred) \cdots
- Bedding, tops known (hor. zonal, inclined, vertical, overturned, dip unknown) $+ \ / \ \backslash \ \times$
- Bedding, tops unknown (inclined, vertical, dip unknown) $\ / \ \backslash$
- Schistosity, gneissosity, cleavage, foliation (hor. zonal, inclined, vertical, dip unknown) $+ \ / \ \backslash$
- Lineation, axis of minor folds (horizontal, inclined, vertical) $\ / \ \backslash$
- Drag fold, arrow indicates plunge \times
- Fault (defined, approximate, interpreted) \cdots
- Joint (horizontal, inclined, vertical, dip unknown) $+ \ / \ \backslash$
- Syncline (defined, approximate) $+ \ / \ \backslash$
- Anticline (defined, approximate) $+ \ / \ \backslash$
- Anticline and syncline (overturned) $+ \ / \ \backslash$
- Intensity (weak, moderate, strong) $\ / \ \backslash$
- Quartz vein (inclined, vertical, dip unknown) $\ / \ \backslash$
- Zone of alteration \cdots
- Trench \cdots
- Adit or mine \cdots
- Rock jump or talus \cdots
- Short take, width \square \times \square
- Diamond or hole (entering section, leaving section) \circ \rightarrow

- Contours \cdots 2500
- Stream or creek (perennial, intermittent) \cdots
- Marsh \cdots
- Lake \cdots
- Road \cdots
- Trail \cdots
- Treed area \cdots

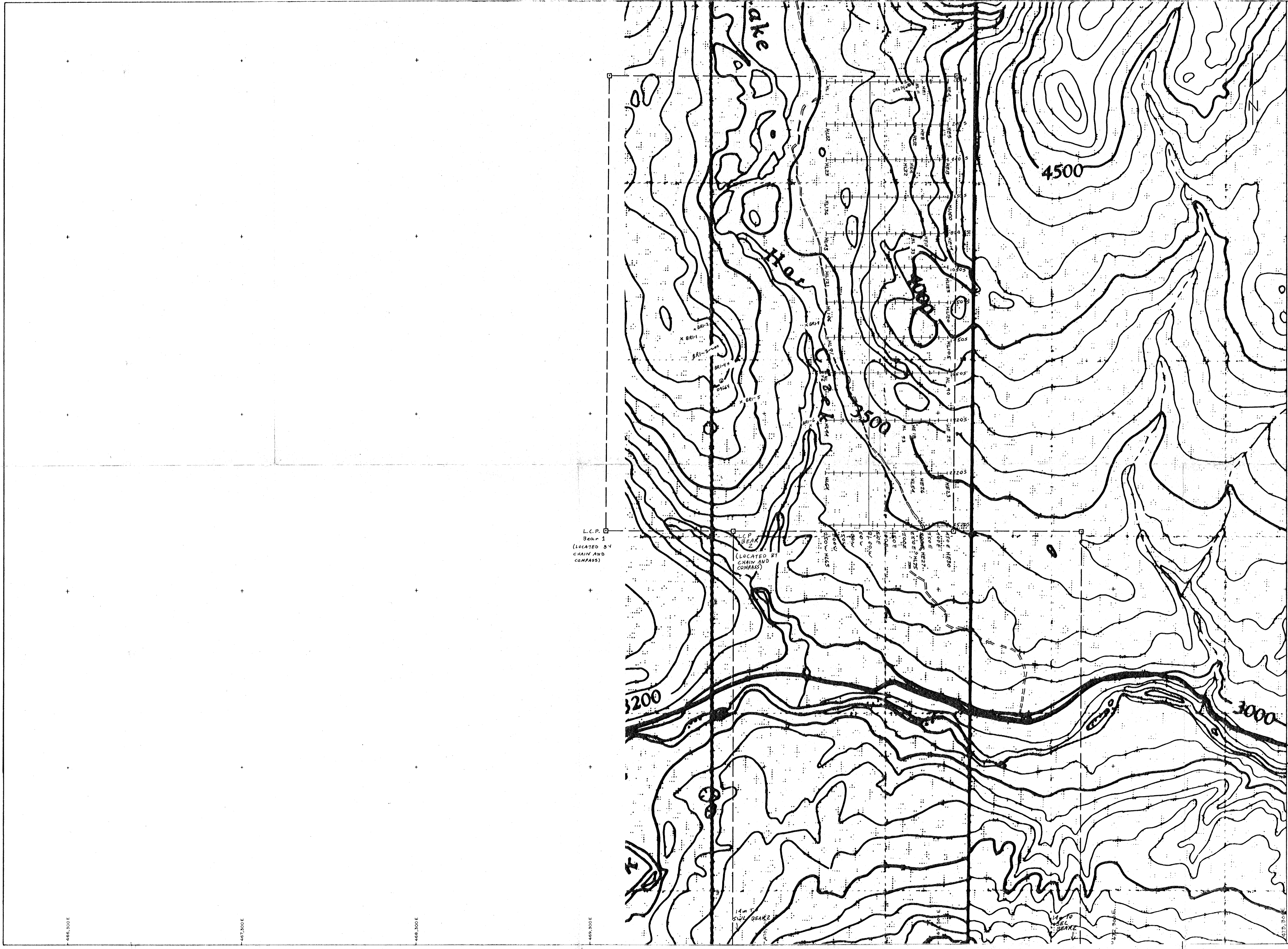


SCALE: 1:10,000

ERICKSON GOLD MINING CORP.

**HOT LAKE
GEOLOGY & GEOCHEM
SAMPLE LOCATION NUMBERS**

Project Name: ERICKSON Project No: 1003
 Latitude: 59°17' to 59°19' Longitude: 129°36' to 129°29'
 Mining Division: W.I.A.R.D. N.T.S. 104 P/5E, 6W
 To accompany a report by R. SOMERVILLE, P. Eng.
 Date: OCT 15, 1984 Map No: 36,37,65,66
 MAP # 1



6,575,000N
12,626
AREA INDEX

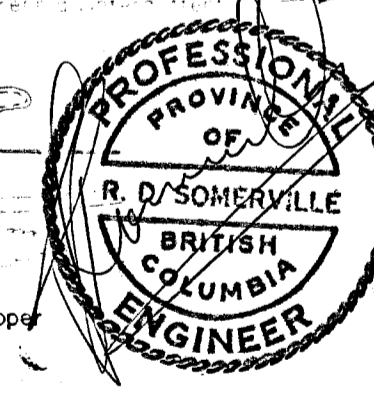
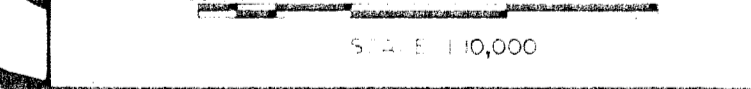
106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

6,574,000N

SYMBOLS

- Rock outcrop (approximate) x xxx (x)
- Geologic boundary (defined, approximate, inferred)
- Bedding, top view (horizontal, inclined, vertical, overturned, dip unknown)
- Bedding, top view (inclined, vertical, dip unknown)
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical)
- Lineation, axis of minor folds (horizontal, inclined, vertical)
- Drag, fold (arrow indicates plunge)
- Fault (defined, approximate, interpreted)
- Joint (horizontal, inclined, vertical, dip unknown)
- Syncline (defined, approximate)
- Anticline (defined, approximate)
- Anticline and syncline (perturbed)
- Intensify (weak, moderate, strong)
- Quartz vein (fine, moderate, coarse)
- Zone of alteration
- Trench
- Adit (tunnel)
- Shuttle (cable, wire)
- Diamond drill hole (entering section, no surface trace)
- Contours
- Stream (in creek, perennial, intermittent)
- Marsh
- Lake
- Reed
- Tie
- Treed area

6,573,000N

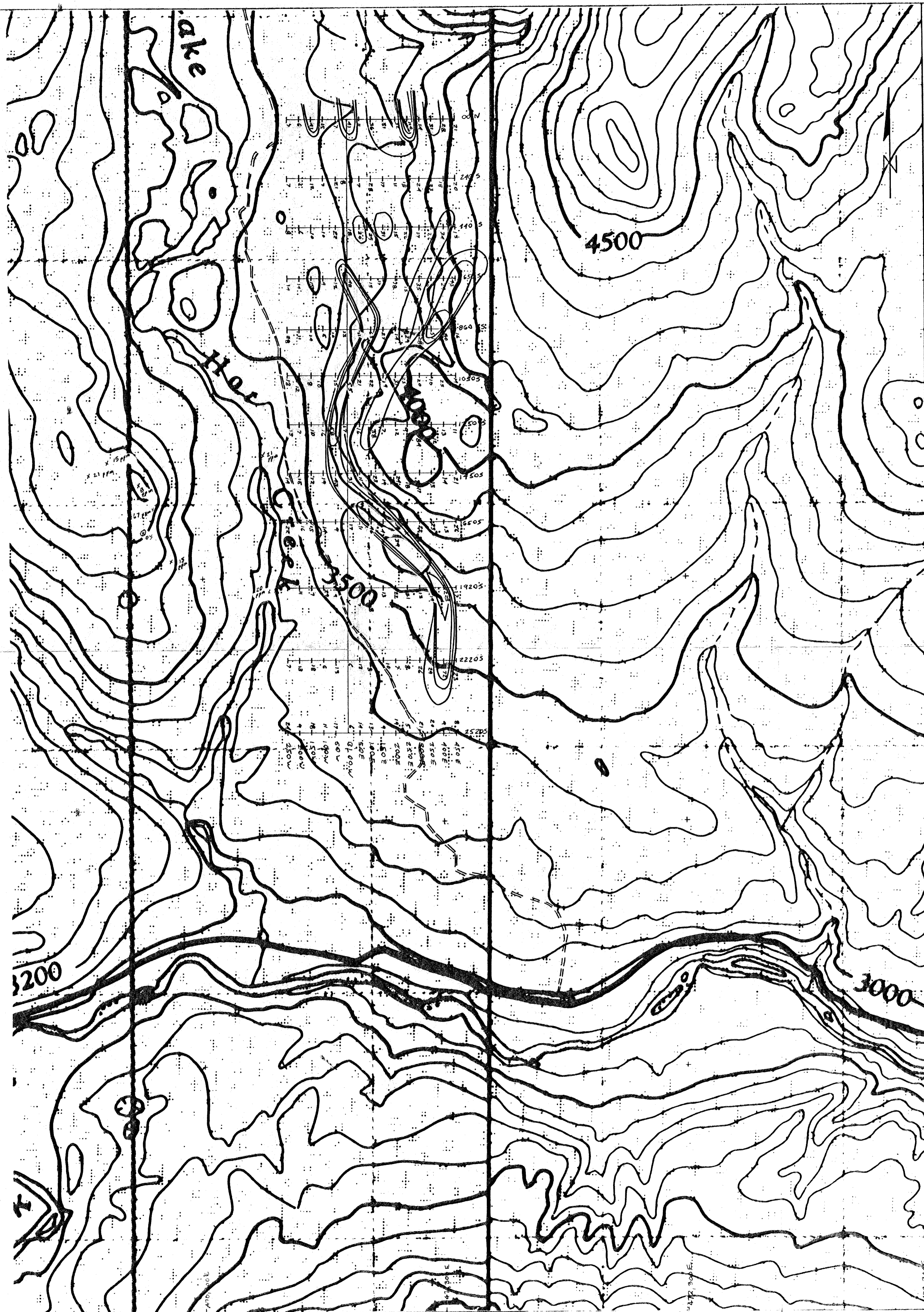


ERICKSON GOLD MINING CORP

HOT LAKE
GEOLOGY & GEOCHEM
SOIL SAMPLING
COPPER

Project Name: ERICKSON Project No: 1003
 Location: 59°17' to 59°19' N, 129°36' to 129°29' W
 Mining District: LIARD N.T.S. 104 P/5E, 6W
 To be completed by: R. SOMERVILLE, P. Eng.
 Date: OCT 15, 1984
 Scale: 1:10,000
 Map No: 36, 37, 65, 66
 MAP 2

LEGEND:
 COPPER (values in parts per million)
 POSSIBLY ANOMALOUS 29-36 ppm
 PROBABLY ANOMALOUS 37-45 ppm
 ANOMALOUS 46-84 ppm
 VERY ANOMALOUS > 84 ppm
 GEOCHEMICAL CONTOURS



486,300E

487,300E

488,300E

489,300E

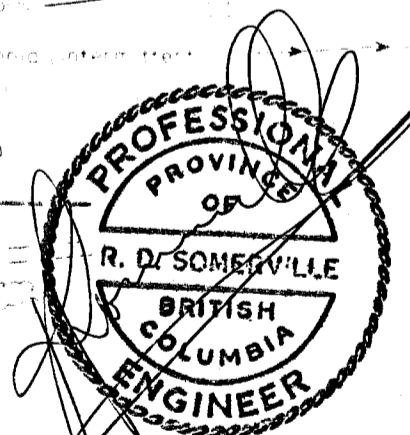
12,626

AREA INDEX

106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

SYMBOLS

- Rock outcrop, defined, interpreted: X XXX X
- Geological boundary (defined, approximate, inferred): ———
- Bedding, top unknown, vertical, overturned, dip unknown: ———
- Bedding, top unknown, inclined, vertical, dip unknown: ———
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown): ———
- Lineation, axis of minor folds (horizontal, inclined, vertical): ———
- Drag fold, arrow indicates plunge: ———
- Fault, defined, approximate, interpreted: ———
- Syncline, defined, approximate: ———
- Anticline and syncline, overturned: ———
- Intensity (weak, moderate, strong): ———
- Quartz vein, inclined, vertical, dip unknown: ———
- Zone of alteration: ———
- Trail: ———
- Adit, tunnel: ———
- River, stream, channel: ———
- Shallow lake, water: ———
- Ditch, drainage: ———
- Contour: ———
- Stream or creek, perennial, intermittent: ———
- Marsh: ———
- Lake: ———
- Reed: ———
- Tree: ———
- Tree area: ———

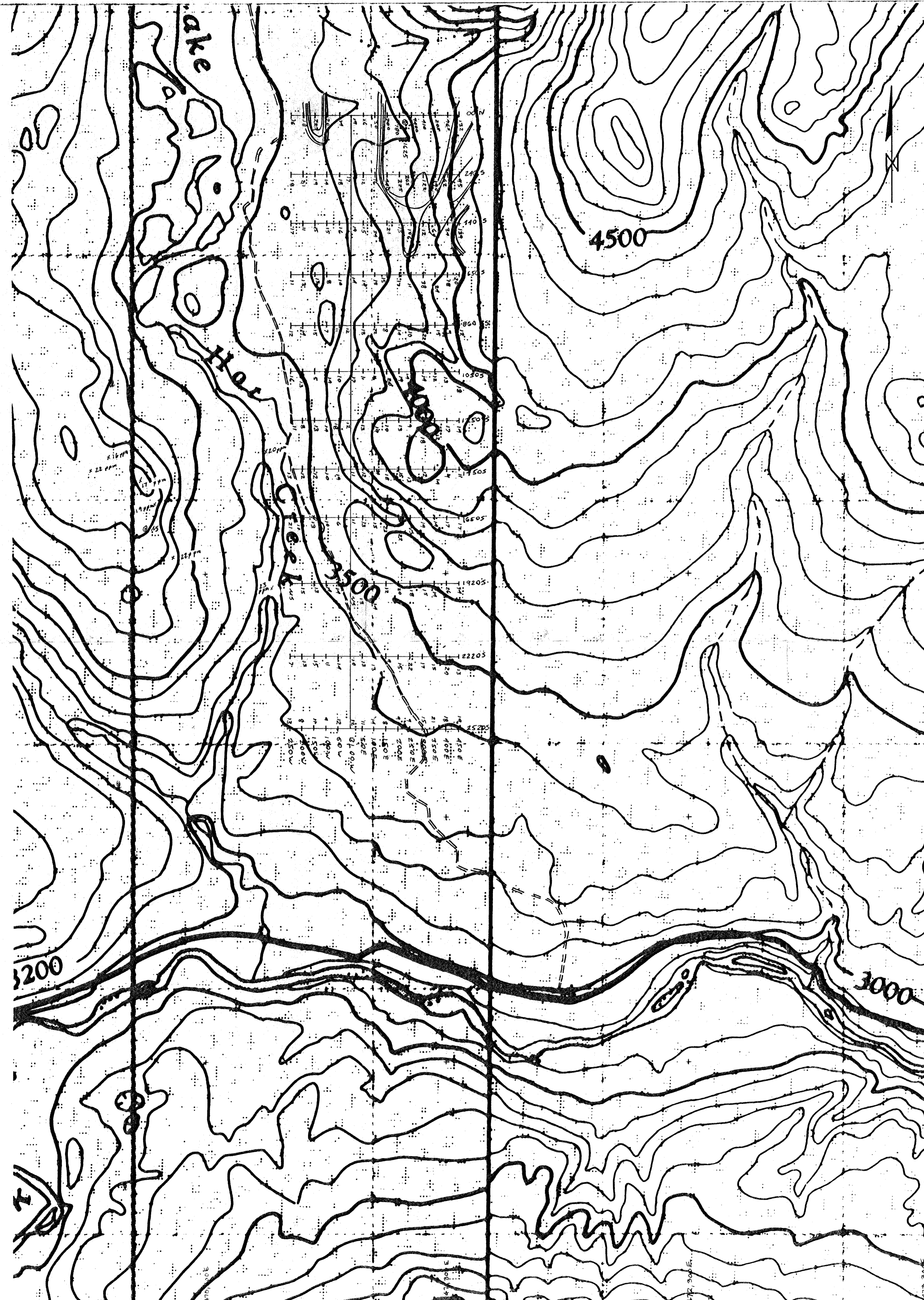


ERICKSON GOLD MINING CORP

HOT LAKE
GEOLOGY & GEOCHEM
SOIL SAMPLING
LEAD

Project Name: ERICKSON Project No: 1003
 Lat. / Long: 59°17' to 59°19' Long. / Lat: 129°36' to 129°29'
 Mining Division: LIARD NTS: 104 P/5E,6W
 To accompany report by: R. SOMERVILLE, P. Eng.
 Date: OCT. 15, 1984 Map No: 36,37,65,66
 MAP 3

LEGEND:
 LEAD (Values in parts per million)
 POSSIBLY ANOMALOUS 60-89 ppm
 PROBABLY ANOMALOUS 90-119 ppm
 ANOMALOUS 120-189 ppm
 VERY ANOMALOUS 190+ ppm
 GEOCHEMICAL CONTOURS ———



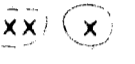






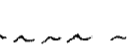
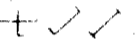










466,300E
467,300E
468,300E
469,300E

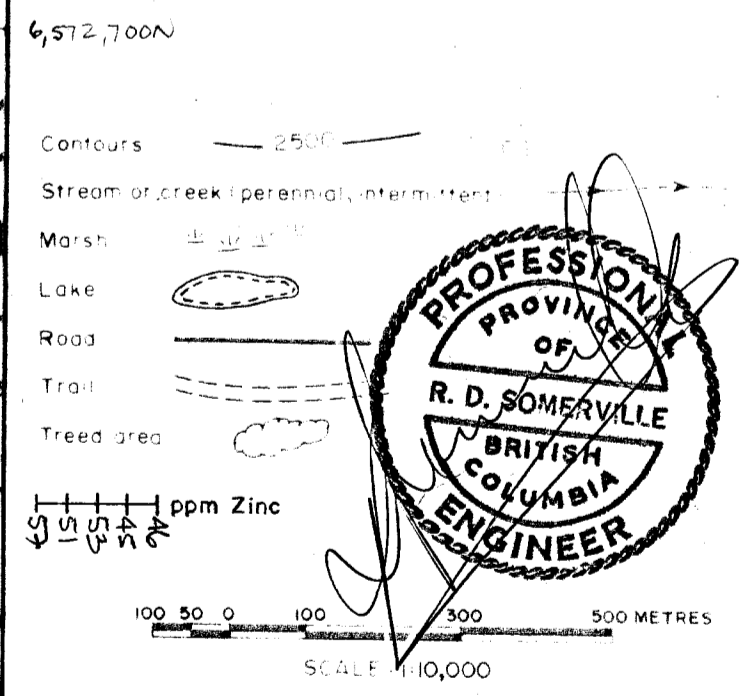
12,626

AREA INDEX

106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

SYMBOLS

- Rock outcrop, area of outcrop, floor: 
- Geological boundary (defined, approximate, inferred): 
- Bedding, tops known (horz, zone, inclined, vertical, overturned, dip unknown): 
- Bedding, tops unknown (inclined, vertical, dip unknown): 
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown): 
- Lincation, axis of minor folds (horizontal, inclined, vertical): 
- Drag fold (arrow indicates plunge): 
- Fault (defined, approximate, interpreted): 
- Joint (horizontal, inclined, vertical, dip unknown): 
- Syncline (defined, approximate): 
- Anticline (defined, approximate): 
- Anticline and syncline (overturned, intensity: weak, moderate, strong): 
- Quartz vein (inclined, vertical, dip unknown): 
- Zone of alteration: 
- Trench: 
- Adit or tunnel: 
- Rock dump or tailings: 
- Shaft, raise, winze: 
- Diamond drill hole (entering sector, leading sector): 

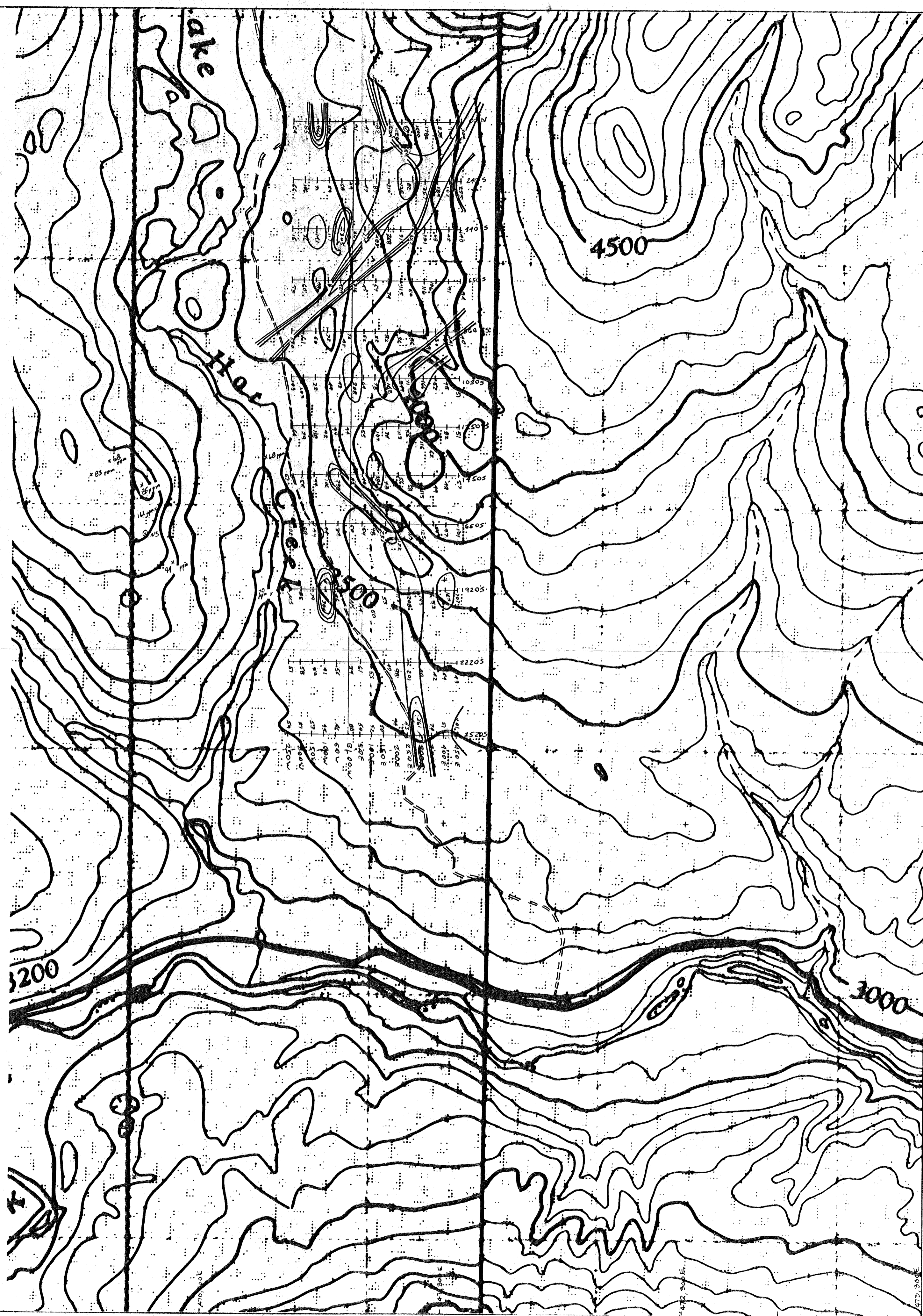


ERICKSON GOLD MINING CORP

HOT LAKE
GEOLOGY & GEOCHEM
SOIL SAMPLING
ZINC

Project Name: ERICKSON Project No: 1003
Latitude: 59°17' to 59°19' Longitude: 129°36' to 129°29'
Mining Division: LIARD N.T.S. 104 P/5E, 6W

To accompany a report by R. SOMERVILLE, P. Eng.
Alpha No: _____ Drawing No: _____
Date: Oct. 15, 1984 Map No: 36, 37, 65, 66
6,570,100N MAP 4



LEGEND:
ZINC (values in parts per million)
POSSIBLY ANOMALOUS 141- 220 ppm
PROBABLY ANOMALOUS 221- 300 ppm
ANOMALOUS 301- 400 ppm
VERY ANOMALOUS > 400 ppm
GEOCHEMICAL CONTOURS

466,300E

467,500E

468,500E

469,500E

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

6,575,100
12,626
AREA INDEX

106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

6,574,100N

SYMBOLS

Rock outcrop, area of outcrop, float X (XXX) X

Geological boundary (defined, approximate, inferred) ———

Bedding, tops known (horzontal, inclined, vertical, overturned, dip unknown) + / / /

Bedding, tops unknown (inclined, vertical, dip unknown) / / /

Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown) + / / /

Lineation, axis of minor folds (horizontal, inclined, vertical) / / /

Drag-fold (arrow indicates plunge) / / /

Fault (defined, approximate, interpreted) ———

Joint (horizontal, inclined, vertical, dip unknown) + / / /

Syncline (defined, approximate) ———

Anticline (defined, approximate) ———

Anticline and syncline (overturned) ———

Intensity (weak, moderate, strong) / / /

Quartz vein (inclined, vertical, dip unknown) / / /

Zone of alteration (dotted area)

Trench ———

Adit or tunnel ———

Rock dump or tailings ———

Shaft, raise, winze ———

Diamond drill hole (entering section, leaving section) ———

6,572,700N

Contours ——— 2500 ———

Stream or creek (perennial, intermittent) ———

Marsh ———

Lake ———

Road ———

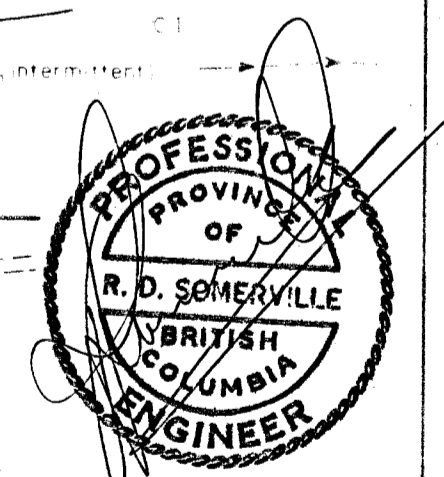
Trail ———

Tree area ———

1 ppm Silver

100 50 0 100 500 METRES

SCALE 1:10,000



LEGEND:

SILVER (values in parts per million)

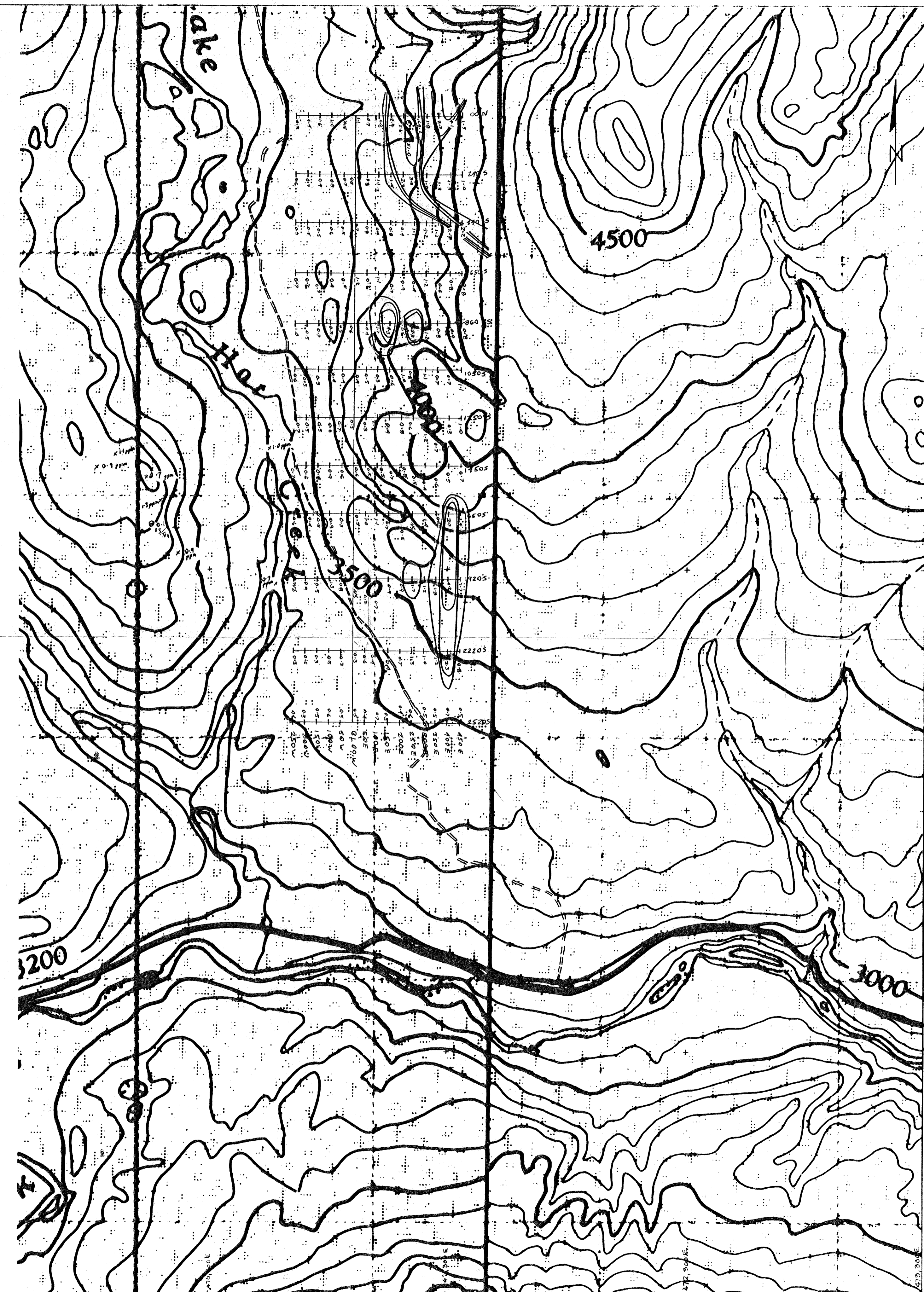
POSSIBLY ANOMALOUS 1.7-2.2 ppm

PROBABLY ANOMALOUS 2.3-2.6 ppm

ANOMALOUS 2.7-4.1 ppm

VERY ANOMALOUS 7.4.9 ppm

GEOCHEMICAL CONTOURS ———



ERICKSON GOLD MINING CORP

6,571,700N

**HOT LAKE
GEOLOGY & GEOCHEM
SOIL SAMPLING
SILVER**

Project Name ERICKSON Project No 1003

Latitude 59°17' to 59°19' Longitude 129°36' to 129°23'

Mining Division LIARD N.T.S. 104 P/5E,6W

To accompany a report by R. SOMERVILLE, P. Eng.

A phone: _____

Date OCT. 15, 1984 Map No. 36,37,65,66
MAP 5

488,300E 488,300E 488,300E 488,300E

AREA INDEX

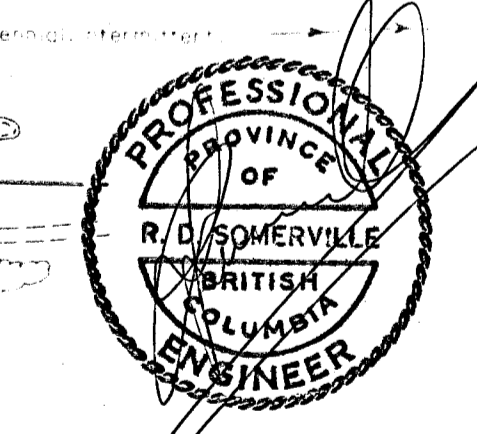
106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	35
6	5	4	15	34

SYMBOLS

- Rock outcrop, area of outcrop, float
- Geological boundary (defined, approximate, inferred)
- Bedding, tops known (horiz. zonal, inclined, vertical, overturned, dip unknown)
- Bedding, tops unknown (inclined, vertical, dip unknown)
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
- Lincation, axis of minor folds (horizontal, inclined, vertical)
- Drag fold (arrow indicates plunge)
- Fault (defined, approximate, interpreted)
- Joint (horizontal, inclined, vertical, dip unknown)
- Syncline (defined, approximate)
- Anticline (defined, approximate)
- Anticline and syncline (overturned)
- Intensity (weak, moderate, strong)
- Quartz vein (inclined, vertical, dip unknown)
- Zone of alteration

- Trench
- Adit for tunnel
- Rock dump or tailings
- Shaft, raise, winze
- Diameter of shaft

- Contours
- Stream or creek (perennial, intermittent)
- Marsh
- Lake
- Road
- Trail
- Treed area
- Scale 1:10,000

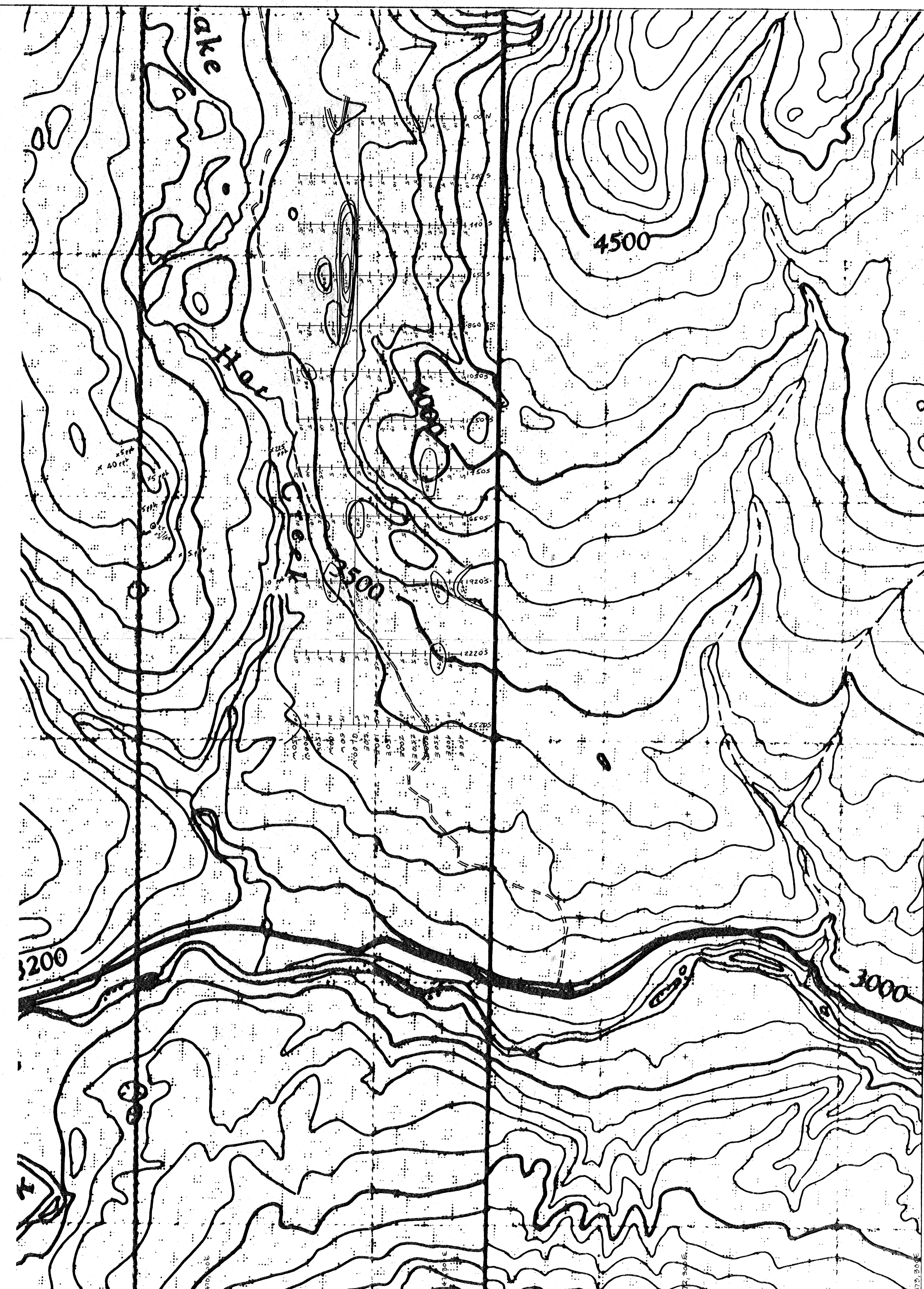


ERICKSON GOLD MINING CORP

**HOT LAKE
GEOLOGY & GEOCHEM
SOIL SAMPLING
GOLD**

Project Name: ERICKSON Project No: 1003
 Latitude: 59°17' to 59°19' Longitude: 129°36' to 129°25'
 Mining Division: LIARD N.T.S. 104 P/5E, 6W

To accompany report by R. SOMERVILLE, P.Eng.
 Date: OCT. 15, 1984 Map No: 36,37,65,66
 MAP 6



LEGEND

GOLD (values in parts per billion)	
POSSIBLY ANOMALOUS	20-34 ppb
PROBABLY ANOMALOUS	35-54 ppb
ANOMALOUS	55-64 ppb
VERY ANOMALOUS	>64 ppb
GEOCHEMICAL CONTOURS	—

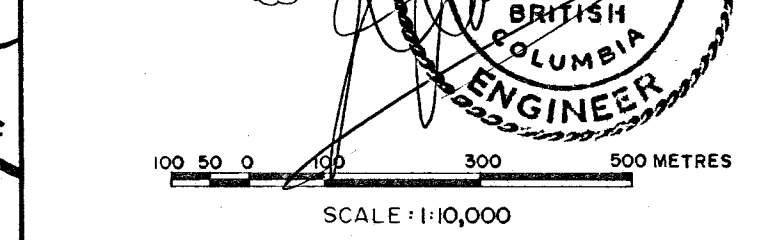
488,000E
488,500E
489,000E
489,500E

AREA INDEX

106	105	104	103	102
69	68	67	66	65
40	39	38	37	36
19	18	17	16	15
6	5	4	3	2

SYMBOLS

- Rock outcrop, area of outcrop, float x (XXX) (X)
- Geological boundary (defined, approximate, inferred) ———
- Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown) + / \ / \ /
- Bedding, tops unknown (inclined, vertical, dip unknown) / \ / \ /
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown) + / \ / \ /
- Lineation, axis of minor folds (horizontal, inclined, vertical) / \ / \ /
- Drag-fold (arrow indicates plunge) ↷
- Fault (defined, approximate, interpreted) ———
- Joint (horizontal, inclined, vertical, dip unknown) + / \ / \ /
- Syncline (defined, approximate) ———
- Anticline (defined, approximate) ———
- Anticline and syncline (overturned) ———
- Intensity (weak, moderate, strong) / \ / \ /
- Quartz vein (inclined, vertical, dip unknown) / \ / \ /
- Zone of alteration (dotted pattern)
- Trench ———
- Adit or tunnel ———
- Rock dump or tailings ———
- Shaft, raise, winze ———
- Diamond drill hole ———
- entering section, leaving section ———
- Contours ——— C:1
- Stream or creek (perennial, intermittent) ———
- Marsh ———
- Lake ———
- Road ———
- Trail ———
- Treed area ———



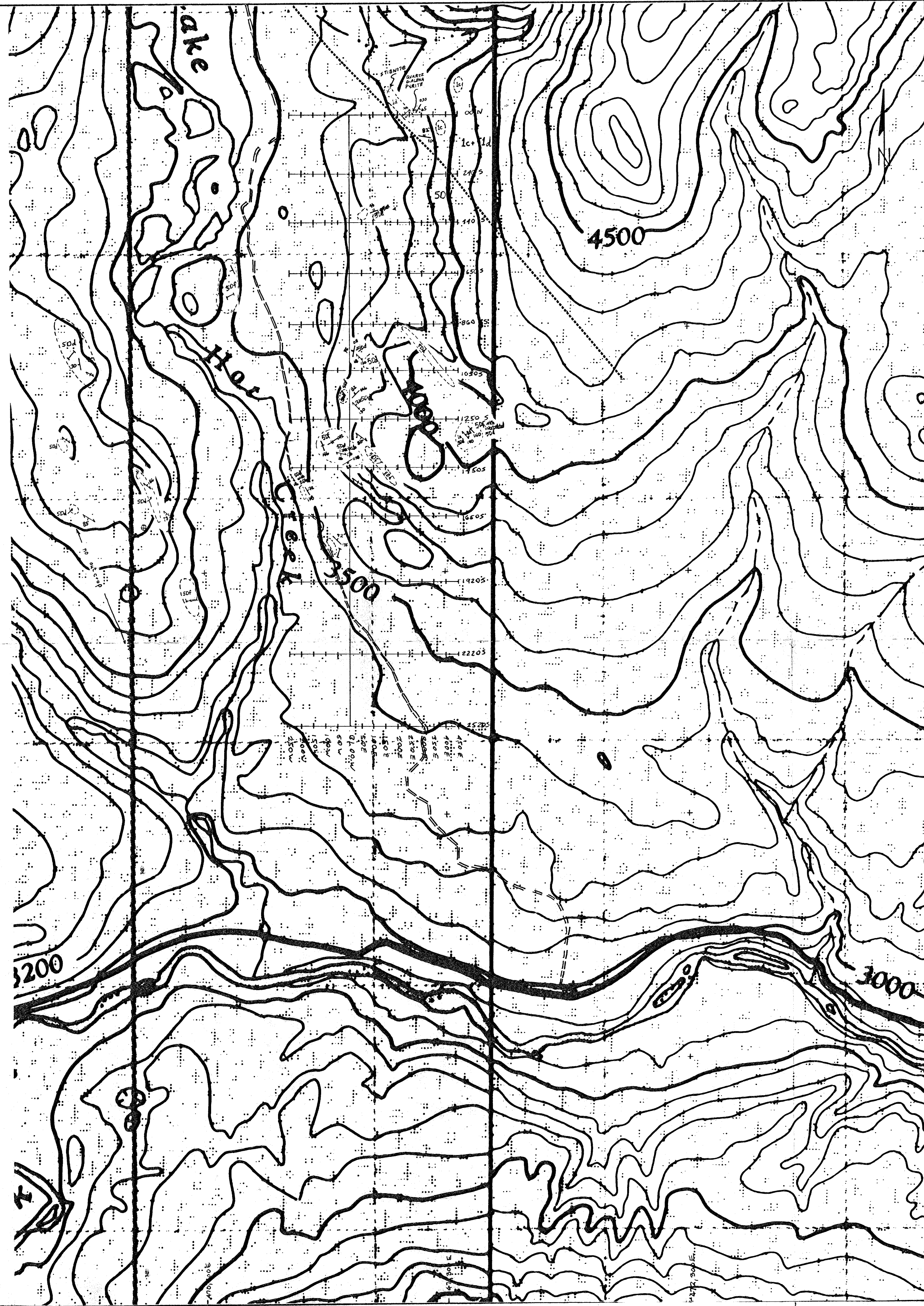
ERICKSON GOLD MINING CORP.

HOT LAKE
GEOLOGY

Project Name: ERICKSON Project No: 1003
 Latitude: 59°17'10.59"19' Longitude: 129°36'12.929"
 Mining Division: LIARD NTS: 104 P/5E, 6W
 To accompany a report by R. SOMERVILLE, P. Eng.
 Alpha No. Drawing No.
 Date: OCT 15, 1984 Map No: 36,37,65,66
 6,570,700N MAP 7

GEOLOGICAL LEGEND

- UNIT AND UNIT NUMBER**
- UNIT 1001**
- UNIT 1002**
- UNIT 1003**
- UNIT 1004**
- UNIT 1005**
- UNIT 1006**
- UNIT 1007**
- UNIT 1008**
- UNIT 1009**
- UNIT 1010**
- UNIT 1011**
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- UNIT 1096**
- UNIT 1097**
- UNIT 1098**
- UNIT 1099**
- UNIT 1100**



488,300E

487,300E

489,300E

493,300E

6,570,700N

6,571,700N

6,572,700N

6,573,700N

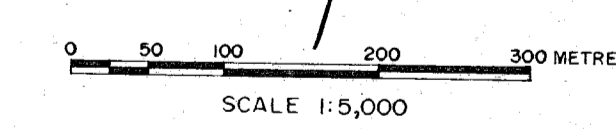
6,574,700N

6,575,700N

18	17	16	35	62
5	4	15	34	61
0	3	14	33	60
1	2	13	32	59
10	11	12	31	58

SYMBOLS

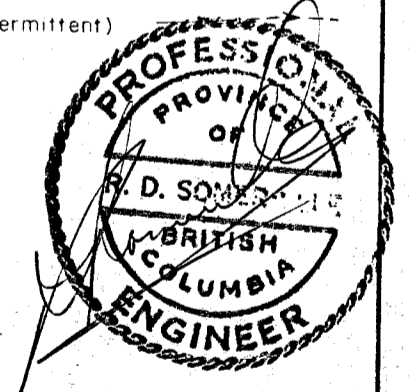
- Rock outcrop, area of outcrop, float \times (XXX) \times
- Geological boundary (defined, approximate, inferred) \cdots
- Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown) $+ \ / \ \backslash \ \times$
- Bedding, tops unknown (inclined, vertical, dip unknown) $\times \ / \ \backslash$
- Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown) $+ \ / \ \backslash \ \times$
- Lamination, axis of minor folds (horizontal, inclined, vertical) \cdots
- Drag-fold (arrow indicates plunge) \curvearrowright
- Fault (defined, approximate, interpreted) \cdots
- Joint (horizontal, inclined, vertical, dip unknown) $+ \ / \ \backslash$
- Syncline (defined, approximate) $+ \ / \ \backslash$
- Anticline (defined, approximate) $+ \ / \ \backslash$
- Anticline and syncline (overturned) $+ \ / \ \backslash$
- Intensity (weak, moderate, strong) \cdots
- Quartz vein (inclined, vertical, dip unknown) \cdots
- Zone of alteration \cdots
- Trench \cdots
- Adit or tunnel \cdots
- Rock dump or tailings \cdots
- Shaft, raise, winze \square \times \square
- Diamond drill hole entering section, leaving section \circ \rightarrow
- Contours 2500 C1
- Stream or creek (perennial, intermittent) \cdots
- Marsh \cdots
- Lake \cdots
- Road \cdots
- Trail \cdots
- Treed area \cdots



ERICKSON GOLD MINING CORP.

HOT LAKE GEOLOGY

Project Name: ERICKSON Project No.: 1003
 Latitude: 59°16'18" N Longitude: 129°32'12" W
 Mining Division: LIARD NTS: 104 P/4E
 To accompany a report by R. SOMERVILLE, P.Eng.
 Alpha No. Drawing No.
 Date: OCT. 15, 1984 Map No. 35
 MAP 8



GEOLOGICAL LEGEND

- LEGEND FOR THE LEGEND**
- SYMBOLS**
- LEGEND FOR UPPER MEMBERS**
- LEGEND FOR LOWER MEMBERS**
- LEGEND FOR ALTERATION**
- LEGEND FOR STRUCTURE**
- LEGEND FOR VEGETATION**
- LEGEND FOR TOPOGRAPHY**
- LEGEND FOR OTHER FEATURES**

