

ERIK #3 Claim
Record #4202

Statement Of Exploration And Development

Details Of Expenses - 1983

Geologist	\$ 3,300.00
11 days @ \$300 per day	500.74
Drafting, typing etc.	400.00
VLR EM rental	<hr/>
	4,200.74
Supervision - 1 person 17 days @ \$150 per day	2,550.00
Staff - 2 persons 38 days @ \$110 per day	8,360.00
Vehiclie rentals	1,000.40
Boat and motor rentals	396.98
Gas and oil	732.54
Accomidation	1,580.34
Food	818.72
Supplies and equipment	862.74
Laboratory services	<hr/> 2,047.15
	<hr/> \$22,549.61

REPORT
ON THE
GEOLOGY, SOIL GEOCHEMISTRY,
ERIK 3 MINERAL CLAIM
Record No. 4202

ADAMS LAKE
KAMLOOPS MINING DIVISION
BRITISH COLUMBIA
82M/4E
51°03' N Latitude, 119°42' W Longitude

prepared for

GIANT NORTH RESOURCES LTD.
1075 Duchess Avenue
West Vancouver, B.C.

prepared by

B. TAYLOR, P.Eng.

May 31, 1983

G E O L O G I C A L B R A N C H
A S S E S S M E N T R E P O R T

11,353

G. A. NOEL & ASSOCIATES INC.
CONSULTING GEOLOGISTS

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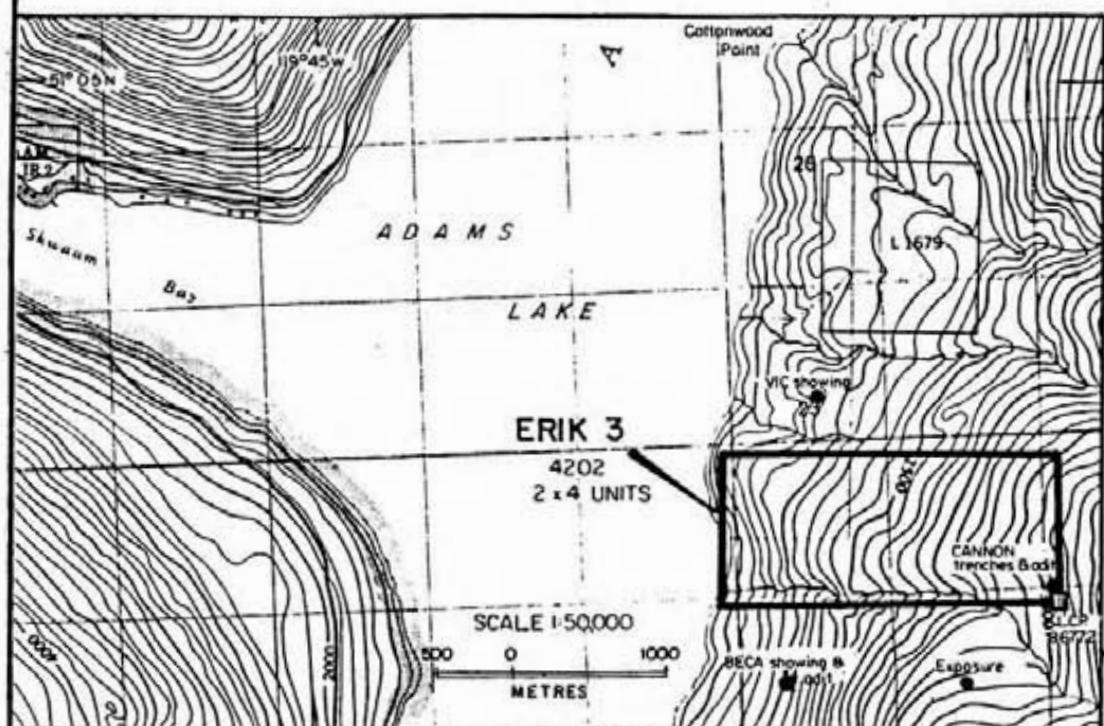
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SUMMARY

The eight-unit Erik 3 claim is situated on the East side of Adams Lake approximately opposite Squam Bay on the west shore of the lake.

A basic program of line flagging, soil sampling and geological reconnaissance sampling has been completed. Geochemical anomalies exist, showings of mineralized quartz, carrying very low silver, zinc and occasionally lead and copper exist nearby. A small amount of VLF EM work has been done.

It is recommended that the geochemical, geophysical programs be extended and detailed geological mapping, prospecting and trenching of the anomalous areas already found be undertaken. It is estimated this would cost approximately \$40,000. A further \$50,000 to be held in reserve for drilling if results of the first phase exploration stage are satisfactory. The total estimated expenditure would be \$90,000.



GIANT NORTH RESOURCES LTD.

G.A. NOEL & ASSOCIATES, INC. VANCOUVER, B.C.

LOCATION MAP
AND CLAIM MAP
ERIK 3 CLAIM

N.T.S. 82M/4 — KAMLOOPS M.D., B.C.

SCALE : 1cm. = 87 Km

MAY 13, 1983

FIG. I

B.T.

INTRODUCTION

The writer visited the property on May 3-7th, 1983, accompanied by Mr. J.E. Charlesworth. Many soil samples were already taken and worked upon later at the office. This is a record of the results obtained, the conclusions reached and recommendations made.

PROPERTY

The ERIK 3 consists of one claim, composed of eight units, two north and four west from the Legal Corner Post. A claim map is included on Figure 1. It was staked by Mr. Keith Deroux on September 1, 1982 and recorded on September 24, at the Gold Commissioner's Office in Kamloops of the the Kamloops Mining Division. It bears record No. 4202. Expiry date is September 24, 1983.

LOCATION AND ACCESS

The property lies on the east shore of Adams Lake, almost directly across the lake from Squam Bay, and the small Summer Resort of the same name. Housekeeping cabins and boats are available at the Agate Bay Lodge. Squam Bay is 32km by good gravel road from Louis Creek which is on Yellowhead Highway No. 5, and in turn 58km north of Kamloops. Its location is shown on Figure 1.

The Legal Corner Post is the southeast corner of the claim block. It is located just east of and above a mineral showing worked on by Cannon Mines in 1966. The BECA claims owned by Cominco lie along the southern boundary.

The ERIK 3 is shown on Mineral Map sheet 82M/4E. It is centred at $51^{\circ}03'$ north Latitude, $119^{\circ}42'$ West Longitude. It varies in altitude from lake level at 420m above MSL to 1130m at the east end.

TOPOGRAPHY

The ERIK 3 claim rises on the moderate to steep slope that extends from Adams Lake to the Adams Plateau. The rather uniform westerly slope of about 20° is interrupted by a few steep rock outcrops only in the east and southeast sides of the block. A stream parallels the southern boundary and has carved a deep gorge about midway along the boundary.

It is forest covered throughout with spruce, pine, and cedar at the lower levels, with aspen and birch coming in at higher elevations. The wood is most suitable for pulp, although some larger trees are present.

Except for Adams Lake itself and the southern boundary stream, the property is quite dry.

HISTORY

The area has a history of mineral exploration dating back to the early 1920's. Showings catalogued in MINFILE are shown on Figure 1.

The former Cannon Mine property has been worked under a variety of names since it was first reported in the BCDM Mines Minister Annual Report in 1927. The 1934 annual report indicated that a 246 foot adit was driven, and an additional 195 feet drifted along a "quartz ore vein deposited in fault and shear zone". A 70 foot winze was sunk in the vein. The most complete report was compiled by Cannon Mines in 1966.

Another prospect, currently on the BECA claims was reported on in the BCDM Mines Minister Annual Report for 1926. They reported a production for that year of 5 tonnes of ore

which contained 31 grams gold; 2,395 grams silver; 1498 kilograms of lead. There were 91m of underground workings. Sporadic work has been done from 1967 to 1978.

LINE MARKING

Sixteen kilometres of line were marked through the forest. This was composed of one kilometre of base line running north approximately parallel to the shore line of Adams Lake. The other fifteen kilometres were marked to the east as east-west lines at right angles to the base line. Each line was marked along its length by blue plastic ribbon. Stations at 100m intervals were marked by orange flagging. An additional 4km were marked in certain geochemically interesting areas between the original lines. These and some of the original lines were marked at 50m intervals. A Top-o-Chaix was used for measuring distances and a Silva compass for direction.

GEOLOGY

Bedrock outcrops along the south side and west end. Glacial till covers most of the property to a shallow or moderate depth. See Figure 2

The claim is underlain by metasediments of the Eagle Bay unit of the Lardeau assemblage. They are considered to be Cambrian to Mississippian in age. Rock types are green-stone with occassionally a little epidote alteration and considered to be a tuffaceous unit; more typical are argillites, phyllites and occassionally a quartz sericite schist, all conformable and with gradational contacts. Some lenticular siliceous shards were observed.

The degree of metamorphism varies and is quite gradational. Quartz sericite schist was observed only at one small location. Argillite was noted as a five metre bed along the lakeshore. The bulk of the rock was finely laminated along bedding planes. The best exposures were noted again along the lake shore. Quartz as veins up to 5cm thick were often noted lying conformable with the bedding.

The bedding strike was approximately 090° azimuth to about 070° . Dips varied from 45° to 10° to the north, and would average about 20° . Some crenulation was observed and one instance of small scale chevron folding.

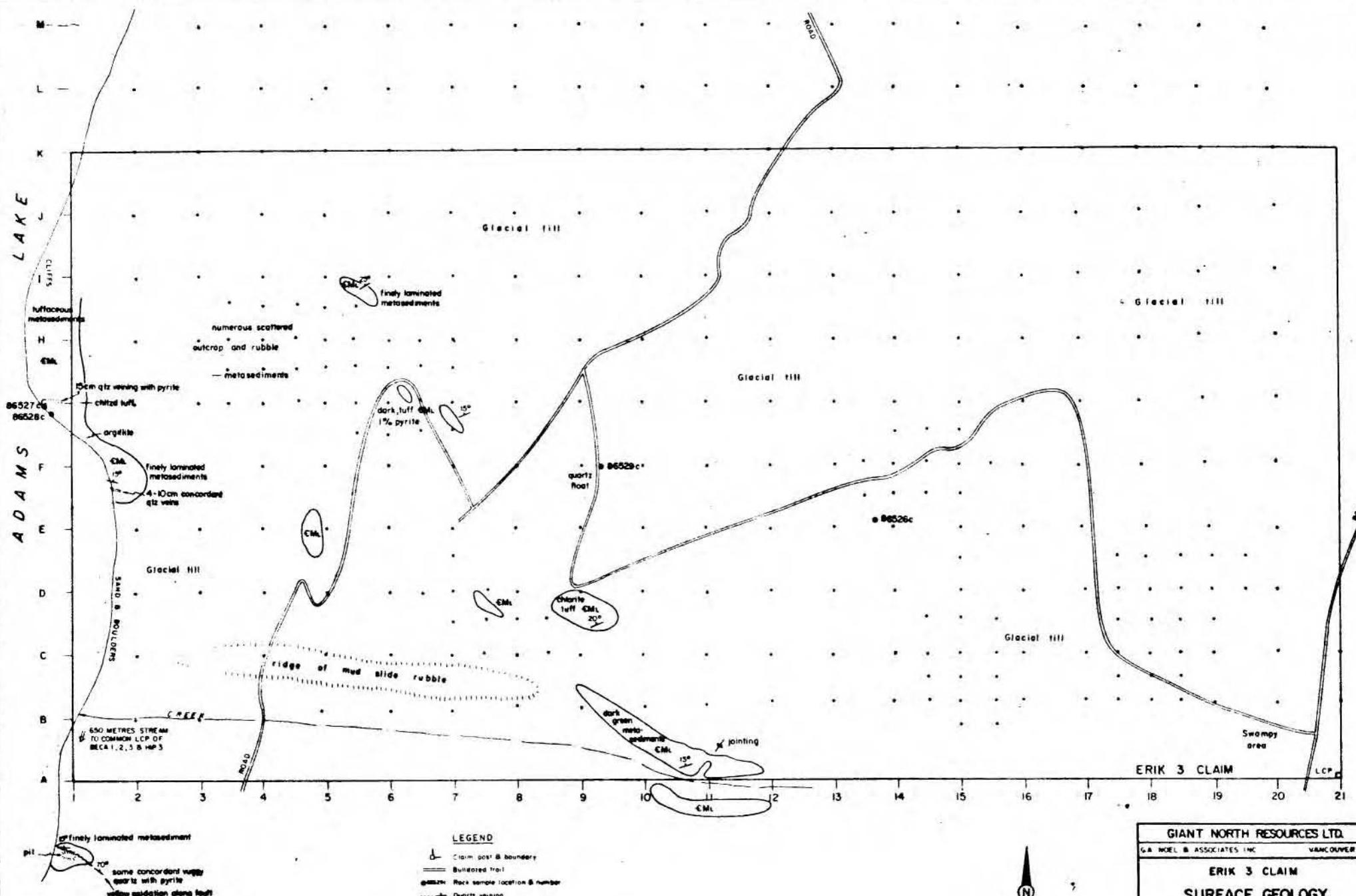
Jointing was present but minor. It was quite steep and had a strike of 125° azimuth.

Mineralization

Quartz veining was also present as steeply-dipping or anastomosing networks up to 20cm thick. Often vugs were present lined with a few small pyrite crystals. Carbonate was present in fresh specimens. Samples 86526-27 and 29 represent this group.

Some pyrite was present as a one per cent dissemination within argillite on line G. Sample 86528C, a specimen, was taken from this location. Values obtained were very low. Some sulphate encrustation was locally noted. This would indicate that sulphides exist or have existed nearby.

Neighbouring showings are indicated on Figure 1, according to the computerized MINFILE. For the most part they are quartz veins with a little contained sulphide mineral. The most important of these is the mineralization exposed



LEGEND

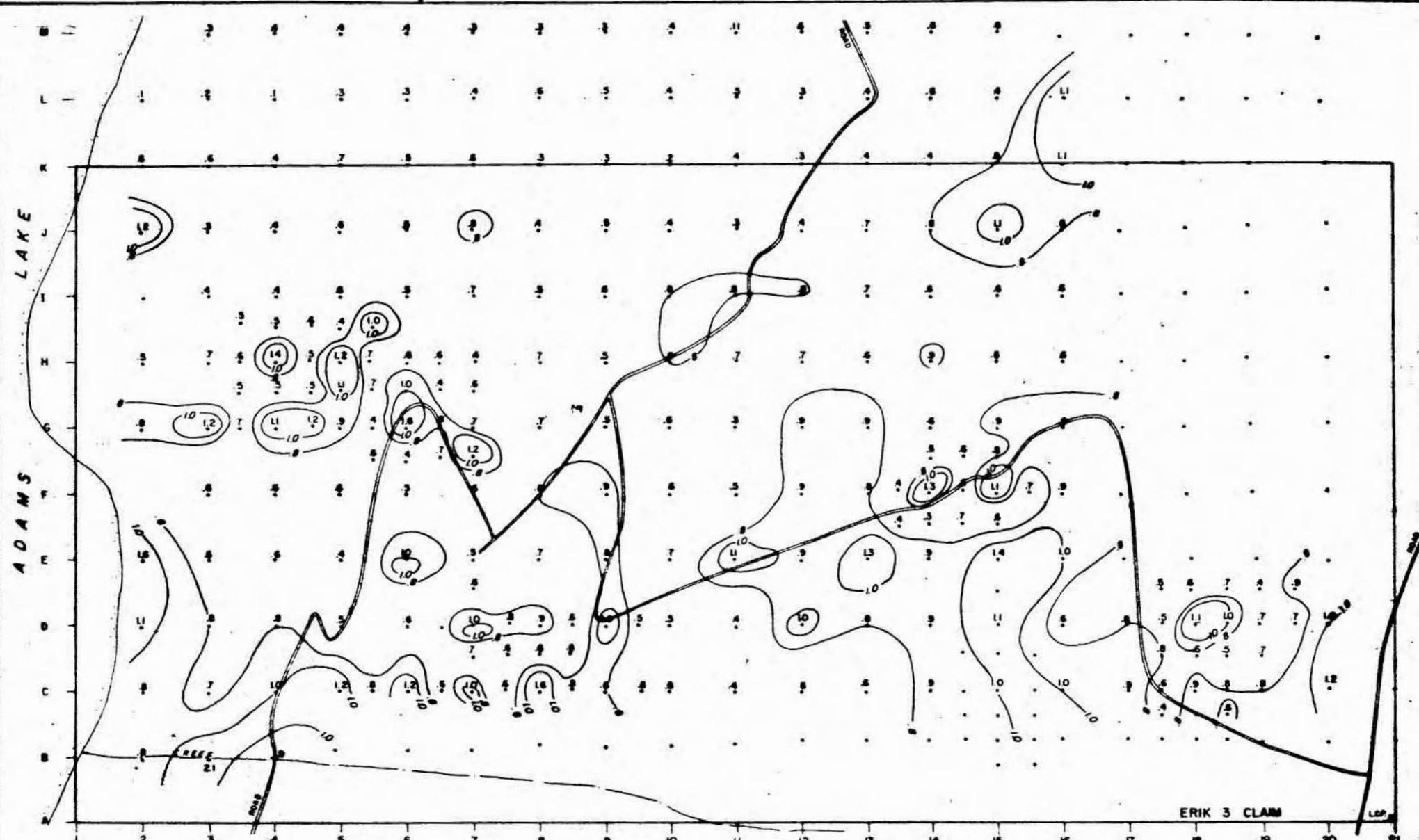
- Claim post B boundary
- Bulldozed trail
- Rec. survey line & number
- Quartz veining
- Jointing
- Bedding
- Rec. surface area
- Condition - Metasediment
- Eagle Bay Formation - tuffaceous greenstone, organite, greenstone schist (metasediments)
- CML

GIANT NORTH RESOURCES LTD.
GA NOEL & ASSOCIATES INC. VANCOUVER, B.C.

ERIK 3 CLAIM
SURFACE GEOLOGY

NTS 82M / 4 - KAMLOOPS M.D., B.C.

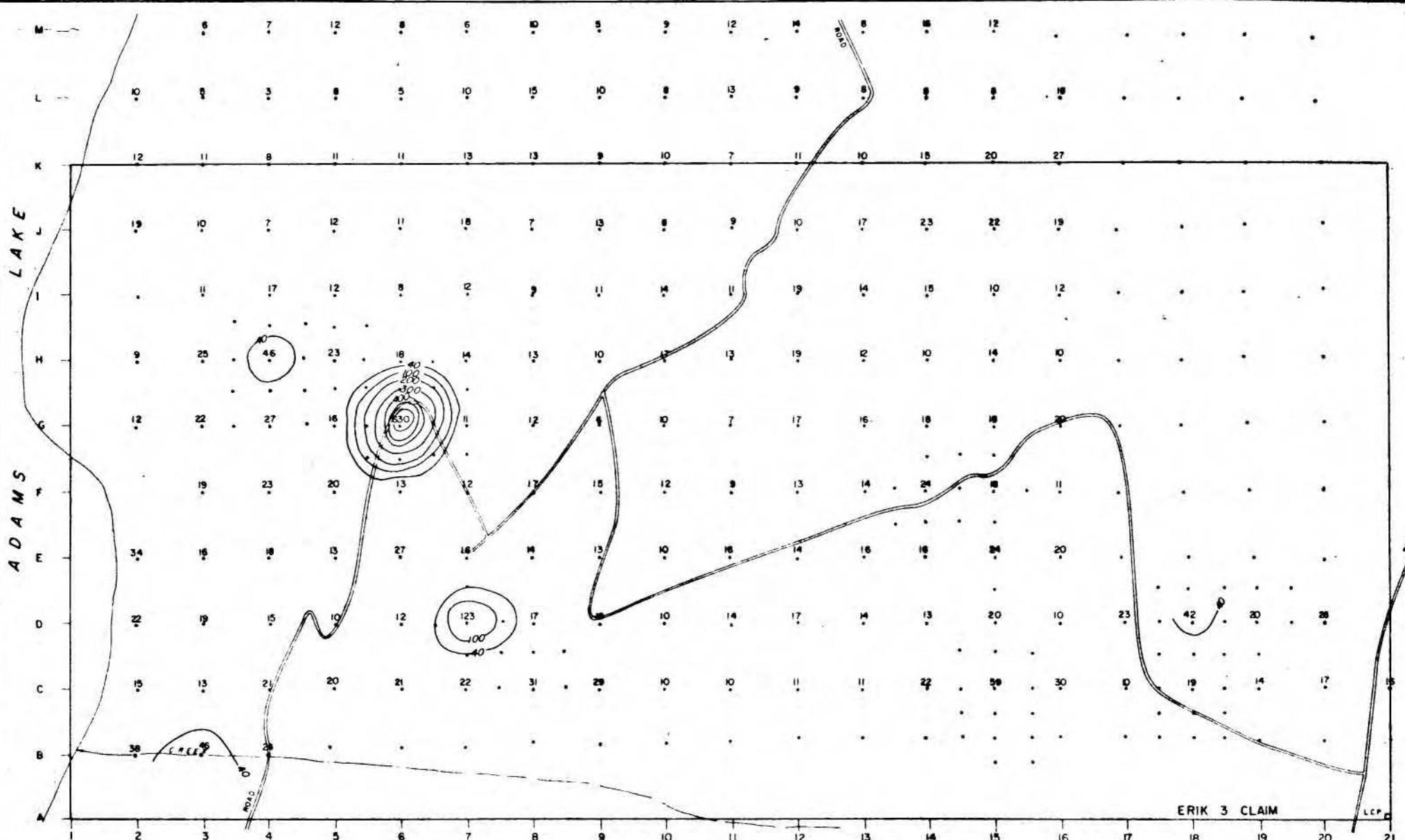
SCALE 1:8000
S.T. MAR 15, 1983 FIG. 2



GIANT NORTH RESOURCES LTD.
GA NOEL & ASSOCIATES INC. VICTORIA, B.C.

ERIK 3 CLAIM
SOIL GEOCHEMISTRY
Ag IN PPM
NTS 82N/4 - KAMLOOPS M.M.A.C.

SCALE 1:8000 DATE 15.1.1988 PAGE 3
BT

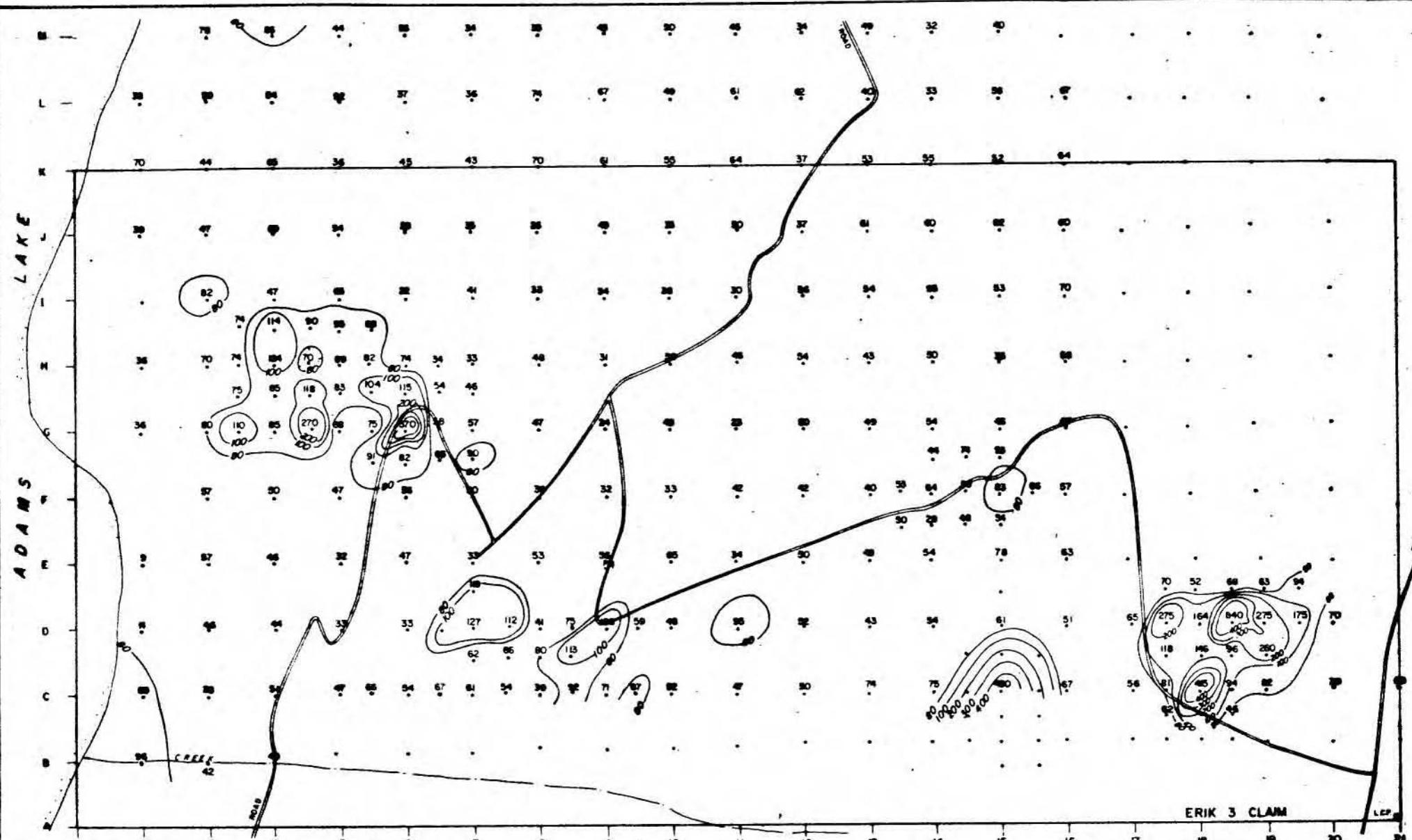


CONTOURS: 40 ppm Pb
100
200
300
400
500
600

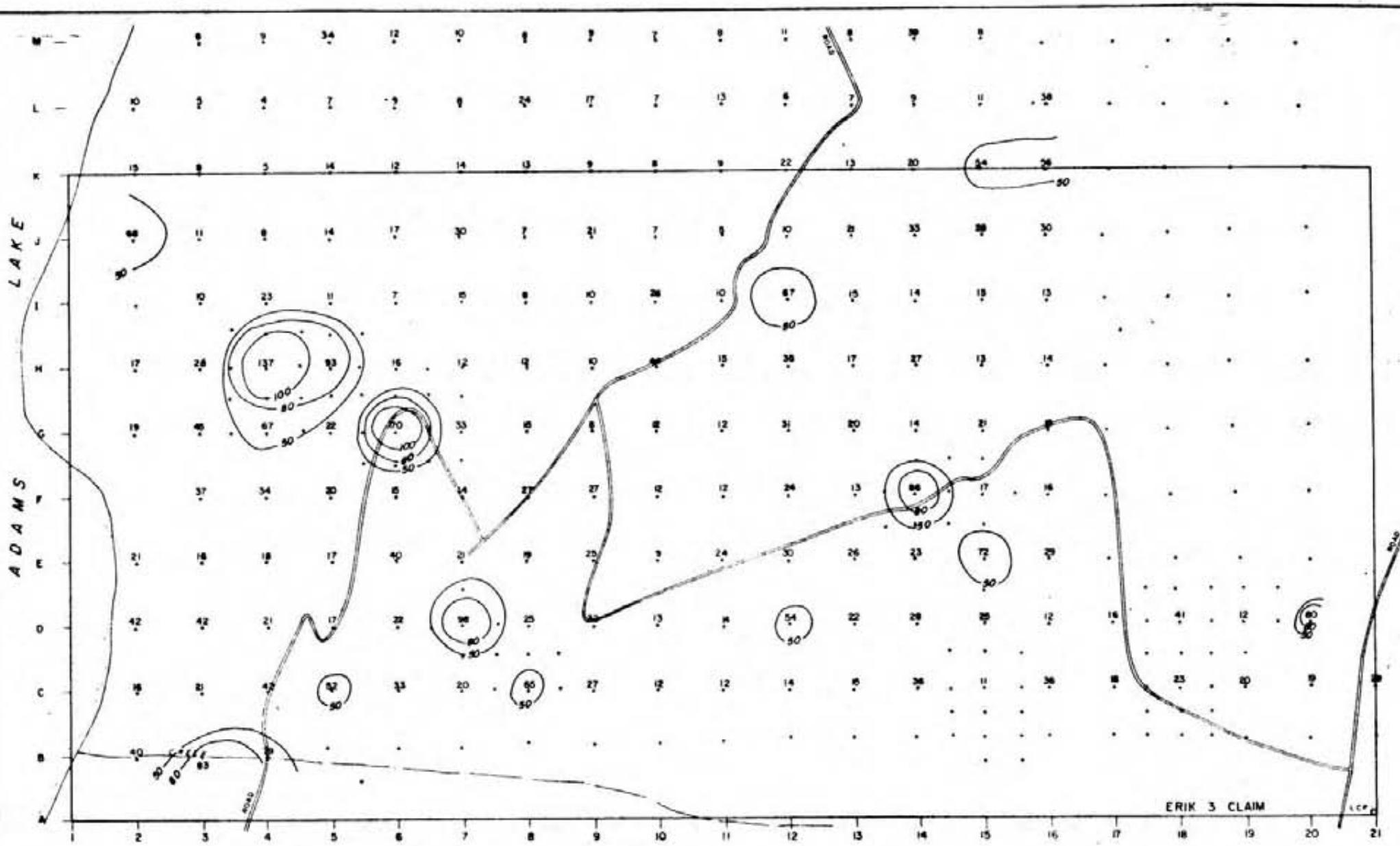


Giant North Resources Ltd.
G.A. Noel & Associates Inc. Vancouver, B.C.

ERIK 3 CLAIM
SOIL GEOCHEMISTRY
Pb IN PPM
NTS 82M/4 - Kamloops N.D., B.C.
Scale 1:8000
S.T. May 13, 1983 FIG. 4



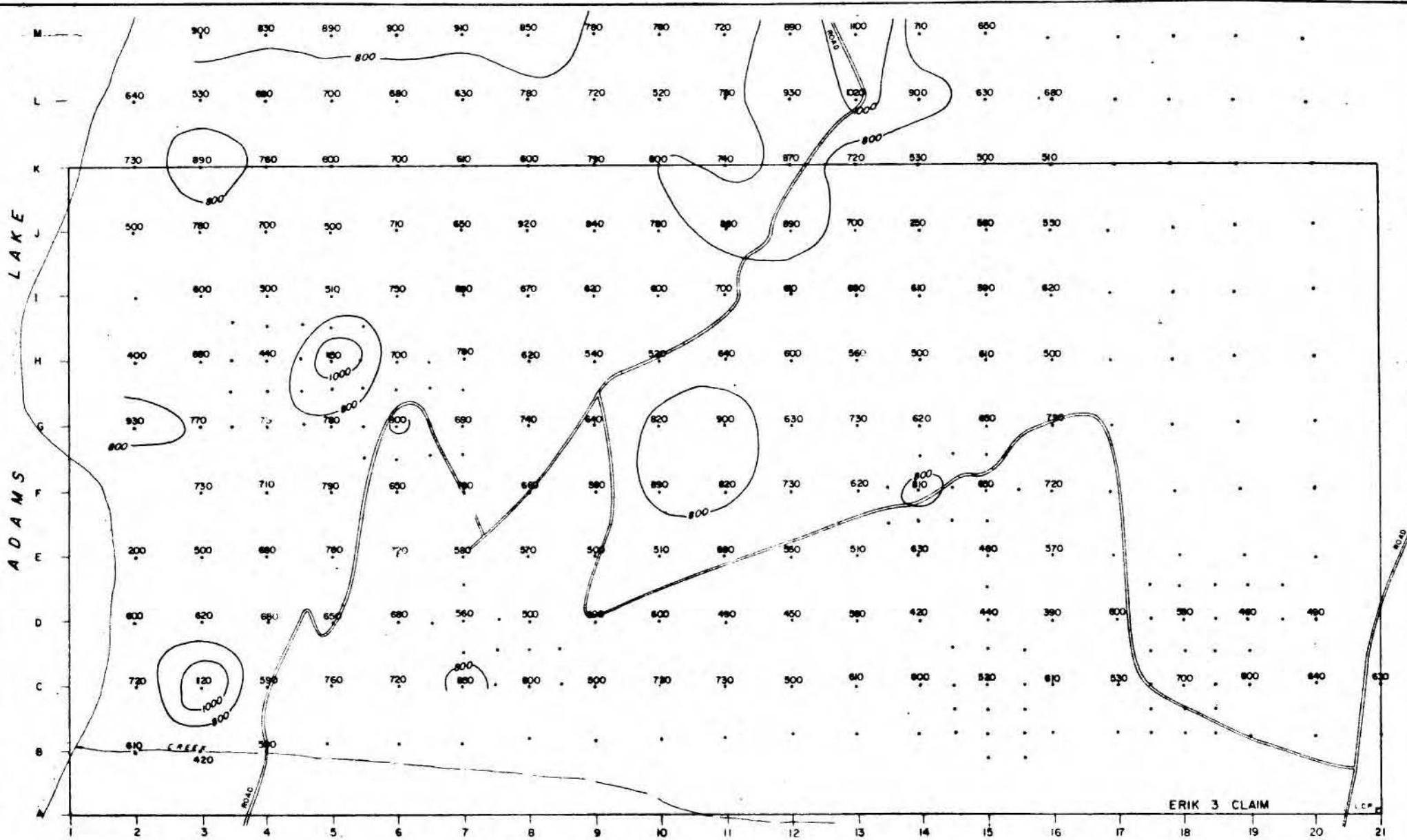
GIANT NORTH RESOURCES LTD.	
GA NOELL & ASSOCIATES INC. VANCOUVER, BC	
ERIK 3 CLAIM	
SOIL GEOCHEMISTRY	
Zn IN PPM	
NTS 82 M / 4 - HANLOPD 82, BC	
SCALE : 1:8000	MAP 13, 1988
82	PAGE 6



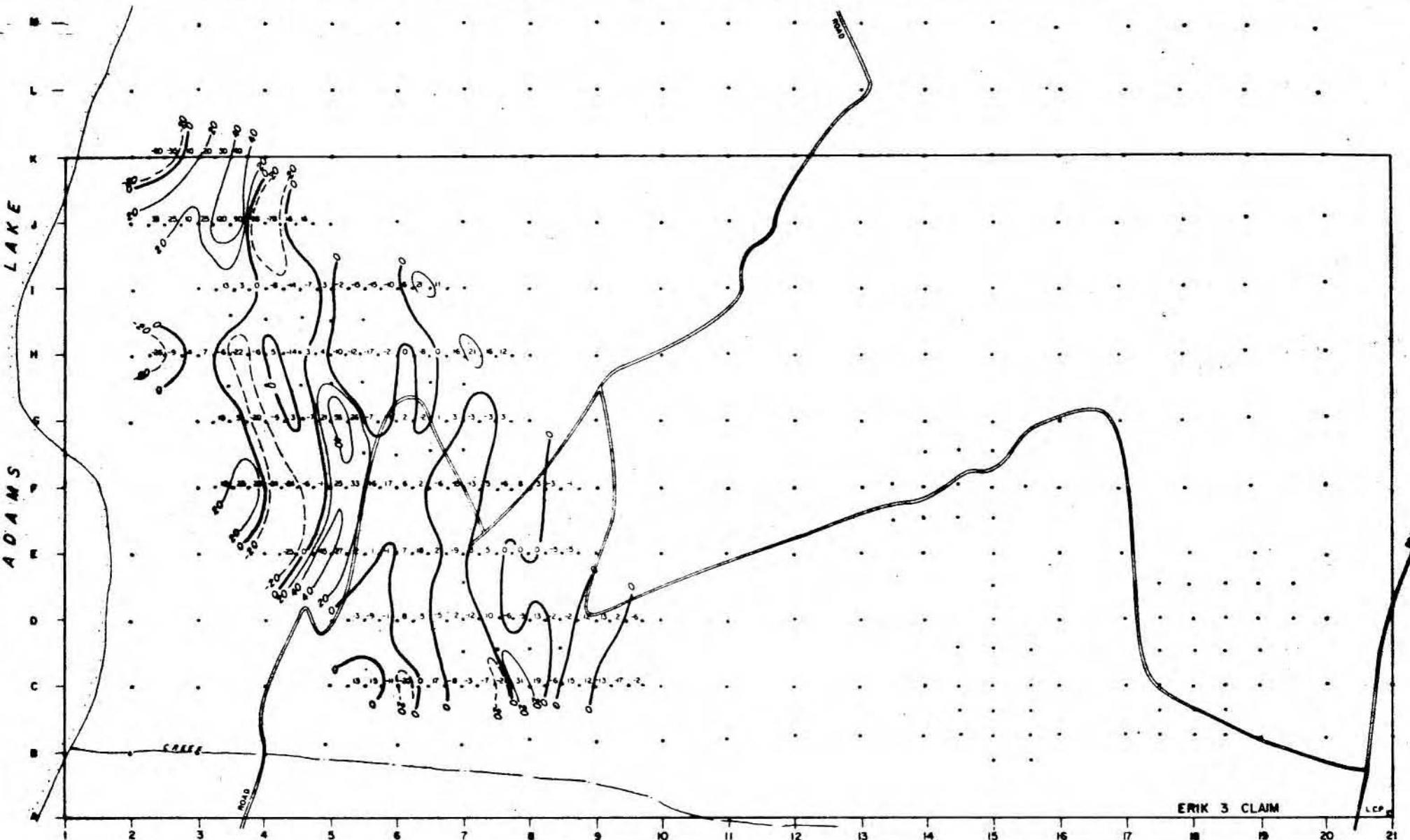
GIANT NORTH RESOURCES LTD.
L.B. NOEL & ASSOCIATES INC. VANCOUVER, BC

ERIK 3 CLAIM
SOIL GEOCHEMISTRY
Cu IN PPM
NTS 82M/4 - KAMLOOPS M.D., B.C.

SCALE 1: 8000
ST
MAP 13, 1983
FIG. 6



GIANT NORTH RESOURCES LTD.	
GA NOEL & ASSOCIATES INC VANCOUVER, BC	
ERIK 3 CLAIM	
SOIL GEOCHEMISTRY	
Ba IN PPM	
NTS 82M / 4 - KAMLOOPS M.D., BC	
SCALE 1:8000	MAY 13, 1983
81	FIG. 7



GIANT NORTH RESOURCES LTD.	
G.A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.	
ERIK 3 CLAIM	
VLF-EM SURVEY	
FRASER FILTERED DIP ANGLES	
NTS 82M / 4 - KAMLOOPS M.D., B.C.	
SCALE 1: 8000	MAY 15, 1983
S.T.	FIG. 8

on the former Cannon Mines ground. This is where the ERIC 3 Legal Corner Post is located. According to their assessment report (No.904) filed in 1966, a northerly striking quartz "ore" vein deposited in a fault and shear zone was followed for 150m by trenching. Values were generally low, but did reach 2.2 oz/ton Ag, 5.01% Cu and 2.38% Zn over 1.8m in one trench. A selected sample taken from the dump at the adit assayed 7.3 oz/ton Ag. Unfortunately the vein dips eastward out of the property.

A short distance to the south, the BECA showings, are reported to have produced in 1926, a total of 5 tonnes of mineral grading .2 oz/ton Au, 15.4 oz/ton Ag, 30.0% Pb. There are 91m of underground workings.

GEOCHEMISTRY

Samples of soil were taken from the "B" soil horizon on the E-W lines except where the lines encroached upon deep glacial material. There were 220 samples analyzed by Min-En Laboratories of North Vancouver for silver, lead, zinc, copper and barium. Copies of the results are appended. Values in all cases were low, but there is sufficient variation to discern anomalous areas.

Silver is presented on Figure 3. The background values are 0.8 ppm and below. The better values lie along the south boundary of the claim, and in its southeast corner.

Lead is presented as Figure 4. The background values are 40 ppm and below. Values are scattered and not considered to be significant.

Zinc is shown as Figure 5. The background is 80 ppm and below. A concentration of higher values exists in the south-east corner of the claim area. They correspond approximately with the higher silver values.

Copper is shown as Figure 6. Values are low and erratic and are not considered to be significant. Background is considered to be less than 50 ppm.

Barium is shown as Figure 7. Values are quite uniform, with background 800 ppm or less. A silver property a few miles to the west has considerable barium associated with it, and a possibility existed that barium could be used here as an indicator mineral. However, there is no observable relationship between the barium and silver on the ERIK 3.

To Summarize The pattern of higher values for silver and zinc, suggests the best place to look for mineral is the central portion and the southeast corner. The copper and lead values are low and of little significance. The barium bears no relationship to any of the other metals.

GEOPHYSICS

A VLF EM survey was also made over some of the flagged line. Details of the equipment, theory, procedures used are appended, as well as the original notes. Figure 8 shows the Fraser filtered dip angles as contours. They are interpreted as being northerly striking conductors. It is probably a reflection of the stratigraphy.

MAPPING

Reconnaissance geological mapping was carried out. Not all the ground was covered.

CONCLUSIONS & RECOMMENDATIONS

The property has relatively good location with respect to other mineral showings in the area. Vein type mineralization is the most likely form of mineral deposit to occur, although strata-bound mineral is a remote possibility. The geochemical approach to exploration of the ground is a sound one. The 100m interval coverage should be enhanced by intermediate sampling near good values. Since a fairly large portion of the ground is overburden covered, appropriate geophysical methods should also be used. Geological mapping should be enhanced. A basic grid has been marked on the ground, and it should be exploited.

The following work program is suggested to search for veins and mineral bearing faults.

Phase I

- (a) The soil sampling program should be intensified to cover interesting area determined by any means. From now on it can be done a few samples at a time.
- (b) Map bedrock geology in detail. Samples to be taken where helpful.
- (c) Use geophysical tools.
 - VLF EM to cover the complete property. This has only been done in quite restricted areas.
 - A ground magnetometer survey would be useful.
 - Induced Polarization and combined Resistivity survey would be useful if some disseminated sulphide horizon could be identified.
- (d) Backhoe trenching (and rock sampling) of the interesting areas.

Phase II

This phase is contingent upon the success (or lack of it), in finding mineral indications in the first phase. Assuming that mineral will be found, a program of drilling could be embarked upon. Bulldozed trails through the woods to the site selected would be required for access.

Exploration Cost Estimate

Phase I

Soil sampling

Collecting approx. 100 soil samples @ \$5.00/sample	500.00
--	--------

Analysis (Ag, Zn) 100 @\$10.00	1,000.00
--------------------------------	----------

Geologist 10 days @ \$300/day	3,000.00
----------------------------------	----------

VLF EM Instrument rental, operator 6 days @ \$250/day	1,500.00
--	----------

Induced Polarization & Resistivity survey (by contract)	13,000.00
--	-----------

Magnetometer Instrument rental, operator 6 days @ \$250/day	1,500.00
--	----------

Trenching, with backhoe 100 hours @ \$100/hour includes mobilization and demobilization	10,000.00
--	-----------

Expenses Helicopter 2 hours @ \$500/hour	1,000.00
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Accomodation

Instrument operator, geologist 50 man days @ \$30/day	1,500.00
--	----------

Food 50 man days @ \$25/day	1,250.00
--------------------------------	----------

Vehicle, boat and barge rental	1,000.00
--------------------------------	----------

Expenses Cont'd

Drafting	300.00
Interpretation, prepare	
Report	600.00
Secretarial	<u>200.00</u>
	<u>1,100.00</u>
First Phase total	\$33,350.00
Contingency, say	<u>3,650.00</u>
Total Phase I	\$40,000.00

Phase II

Reserve for rock sampling, tote road
building, site preparation, 300m diamond
drilling, site reclamation.

say	<u>50,000.00</u>
Total Phase I and II	\$90,000.00

Respectfully submitted

Vancouver
May 31st, 1983

Bent Taylor
B. TAYLOR, P.Eng.

CERTIFICATE

I, Bert Taylor, do hereby certify that:

1. I am a practicing geological engineer, with G.A. Noel & Associates Inc., 721-602 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of Saskatchewan and have been granted the degree of Bachelor of Science in Geological Engineering.
3. I have been practicing my profession as a geological engineer for over 25 years.
4. I am a member of the Association of Professional Engineers of British Columbia, Registration No. 7879.
5. I have no interest, nor expect to receive any interest, direct or indirect, in the properties or securities of Giant North Resources Ltd.
6. The information in this report is from a study of previous reports and from my visits to the property, May 3-7, 1983.
7. Giant North Resources Ltd. is hereby authorized to use this report, or any part of it, for the purpose of financing or as otherwise required by regulatory authorities.

DATED THIS 31th day of May, 1983.
Vancouver, B.C.

Bert Taylor.
B. TAYLOR, P.Eng.

REFERENCES

For Cannon Mines Ltd. (Elmore, Wallace, Lincoln, Vic)
BCDM MMAR, - 1927-C200, 1928-C210, 1934-D28, 1936-D43,
1936-D43, 1966-145, 1967-134.

BCDM GEM, - 1971-437, 1975-E56.

BCDM Assessment Report 904

For Cominco (Rhode Island, Tom, Ad, Day, Beca)
BCDM MMAR, - 1926-A186.

BCDM GEM 1973-113

BCDM Assessment Reports 1114, 4504, 6680, 6801, 7040, 7112.

APPENDIX
A
GEOCHEMICAL ANALYSIS DATA SHEETS

MIN-EN Laboratories Ltd.

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

ANALYTICAL REPORT

Project Date of report **April 19/83.**

File No. **3-181** Date samples received **April 12/83.**

Samples submitted by:

Company: **Giant North Resources**

Report on: **173 soils** Geochem samples

Assay samples

Copies sent to:

1. **Giant North Resources, West Vancouver, B.C.**

2.

3.

Samples: Sieved to mesh **<80** Ground to mesh

Prepared samples stored discarded

rejects stored discarded

Methods of analysis: **Cu, Pb, Zn, Ag-nitric, perchloric digestion, A.A.,**

Ba-fusion-A.A.

Remarks:

COMPAG

Giant North Resources

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

No. 3-181

PROJECT No.:

DATE: Apr. 19

ATTENTION: T. Charlesworth

1982.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

Sample. Number	6 81	10 86	15 90	20 95	25 100	30 105	35 110	40 115	45 120	50 125	55 130	60 135	65 140	Ba ppm 145	70 150	75 155	80 160
B 2		40	38	96				08							61.0		
3		83	46	42				21							42.0		
B 4		7.9	24	4.9				0.9							5.00		
C 2		1.6	1.5	8.9				0.8							7.20		
3		2.1	1.3	2.8				0.7							11.20		
4		4.2	2.1	5.1				1.0							5.90		
5		5.2	2.0	4.7				1.2							7.60		
6		3.3	2.1	5.4				1.2							7.20		
7		2.0	2.2	6.1				1.0							8.50		
8		6.5	3.1	3.9				1.6							6.00		
9		2.7	2.9	7.1				0.8							5.00		
10		1.2	1.0	5.2				0.6							7.20		
11		1.2	1.0	4.7				0.4							7.30		
12		1.4	1.1	5.0				0.6							5.00		
13		1.5	1.1	7.4				0.6							6.10		
14		3.6	2.2	7.5				0.9							6.00		
15		1.1	5.9	45.0				1.0							5.20		
16		3.6	3.0	6.7				1.0							6.10		
17		1.8	1.0	5.6				0.9							5.30		
18		2.3	1.9	41.5				0.9							7.00		
19		2.0	1.4	8.2				0.8							6.00		
20		1.9	1.7	3.9				1.2							6.40		
C 21		2.9	1.6	6.9				0.9							6.30		
D 2		4.2	2.2	14				1.1							6.00		
3		4.2	1.9	4.6				0.8							6.20		
4		2.1	1.5	4.4				0.8							6.80		
5		1.7	1.0	3.3				0.5							6.50		
6		2.2	1.2	3.3				0.6							6.80		
7		9.8	12.3	12.7				1.0							5.60		
D 8		2.5	1.7	4.1				0.9							5.00		

CERTIFIED BY

R. Bayliss

COMP

Giant North Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: _____

MIN - EN Laboratories Ltd.

C. 3-181

ATTENTION: T. Garlesworth

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814DATE: Apr. 19,
1983.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppm	ppm	ppm
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
D. 9		3.2	1.8	10.6				1.0							400	
10		1.3	1.0	4.8				0.5						600		
11		1.4	1.4	9.5				0.4						490		
12		5.4	1.7	5.2				1.0						450		
13		2.2	1.4	4.3				0.8						560		
D. 14		2.8	1.3	5.4				0.9						420		
H. 14		2.7	1.0	5.0				0.9						500		
D. 15		2.5	2.0	6.1				1.1						440		
16		1.2	1.0	5.1				0.6						390		
17		1.6	2.3	6.5				0.8						600		
18		4.1	4.2	16.4				1.1						580		
19		1.2	2.0	27.5				0.7						460		
D. 20		8.0	2.6	7.0				1.0						490		
E. 2		2.1	3.4	9				1.6						200		
3		1.6	1.6	5.7				0.6						500		
4		1.8	1.8	4.6				0.6						680		
5		1.7	1.3	3.2				0.4						780		
6		4.0	2.7	4.7				1.0						720		
7		2.1	1.6	3.3				0.5						580		
8		1.9	1.4	5.3				0.7						570		
9		2.5	1.3	5.6				0.8						500		
10		9	1.0	6.5				0.7						510		
11		2.4	1.6	3.4				1.1						680		
12		3.0	1.4	5.0				0.9						560		
13		2.6	1.6	4.8				0.9						510		
14		2.3	1.6	5.4				0.9						630		
15		7.2	2.4	7.8				1.4						460		
E. 16		2.9	2.0	6.3				1.0						570		
F. 3		3.7	1.9	5.7				0.6						730		
F. 4		3.4	2.3	5.0				0.6						710 (40 mesh)		

CERTIFIED BY

D. G. Mairs

COMPAGIANT North Resources

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

No. 3-181

PROJECT No.:

ATTENTION: T. Charlesworth

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814DATE: Apr. 19,
1983.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Mo ppm	ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Ba ppm		
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
F 5		20	20	47				06							790	
6		15	13	56				05							650	
7		14	12	50				06							780	
8		27	17	39				08							660	
9		27	15	32				09							580	
10		12	12	33				06							890	
11		12	9	42				05							820	
12		24	13	42				09							730	
14		8.6	24	64				13							810	
15		1.7	1.8	8.3				1.1							650	
F 16		1.6	11	57				0.9							720	
F 13		1.3	14	40				0.8							620	
G 2		1.9	1.2	3.6				0.8							930	
3		4.5	2.2	8.0				1.2							770	
4		6.7	2.7	8.5				1.1							750	
5		2.2	1.6	6.8				0.9							780	
6		17.0	6.30	57.0				1.6							800	
7		3.3	1.1	5.7				0.7							690	
8		1.5	1.2	4.7				0.7							740	
9		8	.6	24				0.5							640	
10		12	10	48				0.6							820	
11		1.2	7	23				0.3							900	
12		31	17	50				0.9							630	
13		2.0	16	49				0.9							730	
14		14	18	54				0.6							620	
15		21	18	46				0.9							650	
G 16		15	20	47				0.9							790	
H 2		17	9	36				0.5							400	
3		28	25	70				0.7							680	
H 4		137	46	124				14							440	

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R. J. Charlesworth

COMPAGI Giant North Resources

GEOCHEMICAL ANALYSIS DATA SHEET

P. No. 3-181

PROJECT No.: _____

MIN - EN Laboratories Ltd.

DATE: Apr. 19,

ATTENTION: T. Charlesworth

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1983.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	Ba	70	75	80															
	81	86	ppm	90	ppm	95	ppm	100	ppm	105	ppm	110	ppm	115	ppm	120	ppm	125	ppm	130	ppm	135	ppm	140	ppb	145	ppb	150	ppb	155	ppb	160
H 5		93	23	89						1.2																		1150				
6		16	18	74						0.6																		700				
7		12	14	3.3						0.4																		780				
8		1.2	1.3	4.8						0.7																		620				
9		1.0	1.0	3.1						0.5																		540				
10		44	17	50						0.8																		520 (40mesh)				
11		1.5	1.3	4.6						0.7																		640				
12		3.5	1.9	5.4						0.7																		600				
13		1.7	1.2	4.3						0.6																		560				
15		1.3	1.4	3.6						0.5																		610				
H 16		14	1.0	5.8						0.6																		500				
I 3		1.0	1.1	8.2						0.4																		600				
4		2.3	1.7	4.7						0.4																		500				
5		1.1	1.2	6.5						0.6																		510				
6		7	8	2.2						0.5																		750				
7		15	12	4.1						0.7																		690				
8		8	9	3.3						0.5																		670				
9		1.0	1.1	5.4						0.6																		620				
10		2.6	1.4	3.8						0.8																		600				
11		1.0	1.1	3.0						0.8																		700				
12		6.7	1.9	5.6						0.8																		610				
13		1.5	1.4	5.4						0.7																		680				
15		1.5	1.0	5.3						0.6																		590				
I 16		1.3	1.2	7.0						0.6																		620				
J 2		6.8	1.9	3.9						1.2																		500				
3		11	10	4.7						0.6																		780				
4		8	7	6.9						0.4																		700				
5		14	12	5.4						0.6																		500				
6		17	11	2.8						0.5																		710				
J 7		30	18	3.5						0.8																		650 (40mesh)				

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R. C. Malls

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GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: _____

MIN - EN Laboratories Ltd.

No. 3-181

ATTENTION: T. Charlesworth

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

DATE: Apr. 19,

1983

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	Au	Ba	70	75	80														
	81	86	ppm	90	ppm	95	ppm	100	ppm	105	ppm	110	ppm	115	ppm	120	ppm	125	ppb	130	ppm	135	ppm	140	ppb	145	ppm	150	ppm	155	ppm	160
J 8			7	7	26					04																	920					
9			21	13	49					05																	840					
10			7	8	35					04																	780					
11			5	9	50					03																	880					
12			10	10	37					04																	890					
13			21	17	61					07																	700					
J 14			33	23	60					08																	250					
I 14			14	15	93					06																	610					
J 15			28	22	62					11																	580					
J 16			30	19	60					08																	550					
K 2			15	12	70					06																	730					
3			8	11	44					06																	890					
4			5	8	65					04																	760					
5			14	11	36					07																	600					
6			12	11	45					05																	700					
7			14	13	43					06																	610					
8			13	13	70					03																	600					
9			9	9	61					03																	790					
10			8	10	55					02																	800					
11			9	7	64					04																	740					
12			22	11	37					03																	870					
13			13	10	53					04																	720					
14			20	15	55					04																	530					
15			54	20	52					08																	500					
K 16			56	27	64					11																	510					
L 2			10	10	38					11																	640					
3			5	5	50					02																	530					
4			4	3	54					01																	680					
5			7	8	52					03																	700					
L 6			9	5	37					03																	680					

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John May

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GEOCHEMICAL ANALYSIS DATA SHEET

3-181

PROJECT No.: _____

MIN - EN Laboratories Ltd.

DATE: Apr. 19,
1983.

ATTENTION: T. Charlesworth

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

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COMPA

Giant North Resources

No. 3-242

PROJECT No.: _____

GEOCHEMICAL ANALYSIS DATA SHEET

MIN-EN Laboratories Ltd.

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

PHONE (604) 980-5814

DATE: May 11

ATTENTION: Ted Charlesworth

1983.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	B1	B6	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppb	ppb
H-3.5						74			0.6							
H1-3.5						74			0.5							
HG-3.5						7.5			0.5							
G-3.5						11.0			0.7							
H1-4						11.4			0.5							
HG-4						8.5			0.5							
H-4.5						7.0			0.5							
H1-4.5						9.0			0.6							
HG-4.5						11.8			0.5							
G-4.5						2.70			1.2							
H1-5						9.6			0.4							
HG-5						8.3			1.1							
C-5						5.6			0.6							
H-5.5						8.2			0.7							
H1-5.5						8.8			1.0							
HG-5.5						10.4			0.7							
G-5.5						7.5			0.4							
GF-5.5						9.1			0.6							
C-5.5						6.6			0.8							
HG-6						11.5			1.0							
G-6						5.25			1.0							
GF-6						8.2			0.4							
C-6						5.6			0.7							
H-6.5						3.4			0.6							
HG-6.5						5.4			0.4							
G-6.5						5.8			0.8							
GF-6.5						6.5			0.7							
C-6.5						6.7			0.6							
HG-7						4.6			0.6							
GF-7						9.0			1.2							

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GEOCHEMICAL ANALYSIS DATA SHEET

1 - 3-242

PROJECT No.: _____

MIN-EN Laboratories Ltd.

DATE: May 1

ATTENTION: Ted Charlesworth

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1983

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F No. 3-271

PROJECT No.: _____

DATE: May 24,

ATTENTION: Ted Charlesworth

GEOCHEMICAL ANALYSIS DATA SHEET

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705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1983.

Sample. Number	6 ppm	10 ppm	15 ppm	20 ppm	25 ppm	30 ppm	35 ppm	40 ppm	45 ppm	50 ppb	55 ppm	60 ppm	65 ppb	70	75	80
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
BC-17.5					6.2			0.4								
BC-18.5					4.6			0.6								
C-17.5					8.1			0.6								
C-18.5					9.4			0.8								
D-7.5					11.2			0.8								
..17.5					27.5			0.5								
..18.5					84.0			1.0								
D-19.5					174			0.7								
DC-17.5					11.8			0.8								
..18					14.6			0.6								
..18.5					9.6			0.5								
DC-19					26.0			0.7								
ED-7					11.0			0.6								
..17.5					7.0			0.5								
..18					5.2			0.6								
..18.5					6.8			0.7								
..19					6.3			0.4								
ED-19.5					9.4			0.9								
EF-13.5					5.0			0.4								
..14					2.8			0.3								
..14.5					4.8			0.7								
EF-1.5					5.4			0.6								
F-13.5					5.3			0.4								
..14.5					5.0			0.6								
F-15.5					6.6			0.7								
FG-14					4.4			0.5								
..14.5					7.4			0.6								
FG-1.5					5.3			0.8								
								*								
								*								

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APPENDIX B

VLFEM

- Instrument specifications
- Theory and Procedure
- readings as recorded

APPENDIX B

Instrument Specifications

ELECTROMAGNETOMETER

A. Instrument

- (a) Type - Geonics VLF-EM
- (b) Make - Ronka EM 16

B. Specifications

- Measurement -
- (1) Utilizes primary fields generated by VLF marine communication stations measures the vertical field components in terms of horizontal field present.
 - (ii) Frequency range 15-25 KHz
 - (iii) Range of measurement - in phase + 150%
or +90°
- quadrature +40%
 - (iv) Method of reading - null detection by earphone, ral and quadrature from mechanical dials.
 - (v) Accuracy - + 1% resolution

C. Survey Procedures

- Method
- (a) Select Jim Creek, Washington transmitter.
 - (b) In-phase dial measures degree of tilt from vertical position in degrees.
 - (c) Quadrature dial calibrated in percent - null.
 - (d) Station plot - plot values read at station surveyed. See Figure 9.
 - (e) Manually filter dip-angle data.
 - (f) Filtered data presented in Figure 8.

V.L.F. ELECTROMAGNETOMETER SURVEY

This survey was conducted using a Geonics EM-16 VLF Electromagnetometer. This instrument acts as a receiver only. It utilizes the primary electromagnetic fields generated by VLF marine communication stations. These stations operate at a frequency between 15-20 KHz, and have a vertical antenna-current resulting in a horizontal primary field. This VLF-EM instrument measures the dip-angle of the secondary field induced in a conductor.

For maximum coupling, a transmitter station located in the same direction as the geological strike should be selected, because the direction of the horizontal electromagnetic field is perpendicular to the direction of the transmitting station. In this survey, the transmitter at Jim Creek, Washington, is well situated.

Readings were taken at 30 m intervals and the data filtered in the field by the operator as described by D.C. Fraser, Geophysics Vol. 34, No. 6 (December 1969). The advantage of this filtration method is that it removes the dc and attenuates long wave lengths to increase resolution of local anomalies, and phase shifts the dip-angle data by 90 degrees so that cross-overs and inflections will be transformed into peaks to yield contourable quantities.

EM FIELD NOTES

Property ERIK 3

Job No. _____

Trans. VLF EM

Page 1
Date May 8 /23
Operator G. H. Hill
Face Up Hill

Contour on -20
0
+20
+40

Checked _____

Page 2

Checked _____

EM FIELD NOTES

Property Erik 3

Page 3

Job No. _____

Operator G M

Trans. VLF EM

Face - Vertical

Checked _____

Page 4

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
F 3	-18	+55			
F 3.25	-44	+60	+115		
F 3.5	-16	+55	+115	+10	
F 3.75	-40	+50	+105	+25	G
F 4	-16	+40	+90	+20	
F 4.25	-2	+45	+85	-24	G
F 4.5	-8	+50	+104	-24	
F 4.75	-10	+50	+109	-6	
F 5	-28	+60	+110	-1	VG
F 5.25	-26	+50	+110	+25	
F 5.5	-26	+35	+85	+33	
F 5.75	45	+42	+77	+16	G
F 6	-16	+27	+69	+17	G
F 6.25	45	+33	+60	+6	
F 6.5	-31	+30	+63	+2	G
F 6.75	-25	+32	+62	-6	G
F 7	45	+37	+69	-15	
F 7.25	45	+40	+77	-13	
F 7.5	+20	+42	+82	+5	
F 7.75	-20	+30	+72	+16	
F 8	-27	+36	+66	+8	G
F 8.25	-12	+28	+64	+3	
F 8.5	-8	+35	+63	-3	G
F 8.75	-23	+32	+67	-1	
F 9	-4	+30	+62		

Checked _____

EM FIELD NOTES

Property Erik 3Page 5Job No. Date May 9 / 83Trans. VLF EMOperator GMFace Up Hill

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
G 8	-6	+30			
G 7.75	-6	+30	f60		
G 7.5	-42	+33	+63	+3	
G 7.25	-22	+30	+63	-3	
G 7	-32	+30	+60	-3	
G 6.75	-42	+30	+60	+3	
G 6.5	+44	+33	+63	+1	
G 6.25	-13	+28	+61	-2	
G 6	-18	+33	+61	+2	
G 5.75	-4	+30	+63	-1	
G 5.5	-8	+30	+60	-7	VG
G 5.25	+4	+26	+56	+26	
G 5	-42	+60	+86	+56	
G 4.75	-30	+52	+112	+21	VG
G 4.5	55	+55	+107	-7	
G 4.25	-32	+50	+105	+3	
G 4	-16	+60	+110	-5	
G 3.75	+18	+40	+100	-20	G
G 3.5	-18	+50	+90	+15	
G 3.25	+4	+65	+115	+10	
G 3	-16	+35	+100		
G 2.75					
G 2.5					
G 2.25					
G 2					
Cliff 4000					

Checked _____

Page 6

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
H 8	-4	+23	+50		G
H 8.75	-4	+27	+57	+12	G
H 8.5	-13	+30	+62	+1b	G
H 8.25	-16	+32	+73	+21	G
H 7	-41	+41	+83	+16	
H 6.75	-24	+42	+89	0	G
H 6.5	-44	+47	+83	-6	
H 6.25	-13	+36	+81	0	Very hard J11
H 6	-18	+45	+83	-2	
H 5.75	-11	+38	+79	-17	
H 5.5	-23	+41	+66	-12	G
H 5.25	-8	+25	+67	-10	VG
H 5	-2	+22	+66	+4	
H 4.75	-20	+34	+71	+3	G
H 4.5	-40	+37	+39	-14	
H 4.25	-22	+22	+57	+5	G
H 4	-44	+35	+64	-6	
H 3.75	-6	+29	+51	-22	G
H 3.5	-3	+22	+42	-6	G
H 3.25	-25	+20	+45	+7	VG
H 3	-42	+25	+49	+4	
H 2.75	-12	+24	+49	-9	
H 2.5	-22	+25	+40	-26	Lg 2m / 100
H 2.25	-32	+15	+23		
H 2	-15	+8			

Checked _____

EM FIELD NOTES

Property Erik 3

Job No. _____

Trans. ULF EM

MEAS **SUM** **NUMBERED**

Page 7

Checked _____

Page 2

LOCATION (STATION)	QUAD (EM 16)	MEAS DIP & SIGN	SUM of PAIRS	FILTERED DATA	REMARKS & SLOPE
J 5	-22	+15			
J 4.75	-17	+22	+37		
J 4.5	-37	+25	+47	+16	
J 4.25	-22	+28	+53	+16	
J 4	-9	+35	+63	-78	7
J 3.75	+30	-60	-25	-98	Ravine
J 3.5	-12	+25	-35	+90	
J 3.25	+36	+40	+65	+120	
J 3	-24	+45	+85	+25	
J 2.75	0	+45	+90	+10	
J 2.5	-28	+50	+95	+25	
J 2.25	+36	+65	+115	+35	
J 2	+40	+65	+130		Rever
K 2	-26	+15			
K 2.25	-32	+25	+40		
K 2.5	+32	+60	+85	-80	
K 2.75	+32	+60	+120	-35	
K 3	-2	+60	+120	+10	
K 3.25	-10	+50	+110	+20	Ravine
K 3.5	0	+50	+100	+30	G
K 3.75	-42	+30	+80	+40	
K 4	-20	+20	+60		

Checked _____