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1

Assessment Work Report

on the
Geophysical Surveys
carried out over the

PINE GROUP of Mineral Claims

92-J-15-W

Lillooet Mining Division

Goldbridge, B.C.

Long 122 48' Lat. 50 48'

by

Levon Resources Ltd.
1040-609 Granville St.
Vancouver, B.C.

by

P.S. Friesen P. Eng
Dec 1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,248

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Complete report on the Geophysical Survey on the
Pine Group of Mineral Claims. Dated Dec 1983.

Assessment work report on the PINE GOUP of Mineral
Claims. Goldbridge Area, B.C.
92-J-15-W

by
P.S. Friesen P. Eng

INTRODUCTION

A magnetometric and electromagnetic survey were carried out over the Pine Group of mineral claims which lie one kilometer south of Brexton, near Goldbridge, B.C. A detailed description of the property and the work performed is included in a report appended to this report.

STATEMENT OF COSTS

for work performed 1983.

Establishing lines

baseline 3 km @ 50.00/km =	150.00
crosslines 25.95 km @ 50./km =	1,297.50

Magnetometer Survey

Magnetometer rental	225.00
baseline survey 3 km @ 75.00/km =	225.00
25.95 km of Cross lines @ 50.00/km =	1,297.50

Electromagnetic Survey

Presunka - 9 days @ 250.00/day =	2,250.00
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Engineering

Expediting and mobilization - 4days @ 200.00 =	800.00
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Supervising and conduction Mag. EN surveys - 17 days @ 200.00	3,400.00
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Demobilization - 2 days @ 200.00	400.00
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Drafting & final report - 10 days @ 200	2,000.00
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Field & Travelling Expenses

	2,993.00
Total	<u>15,038.00</u>

APPENDIX

Report on the Magnetic and Electromagnetic Surveys
on the Pine Group of Mineral Claims. by P.S. Friesen
P. Eng., Dec 1983.

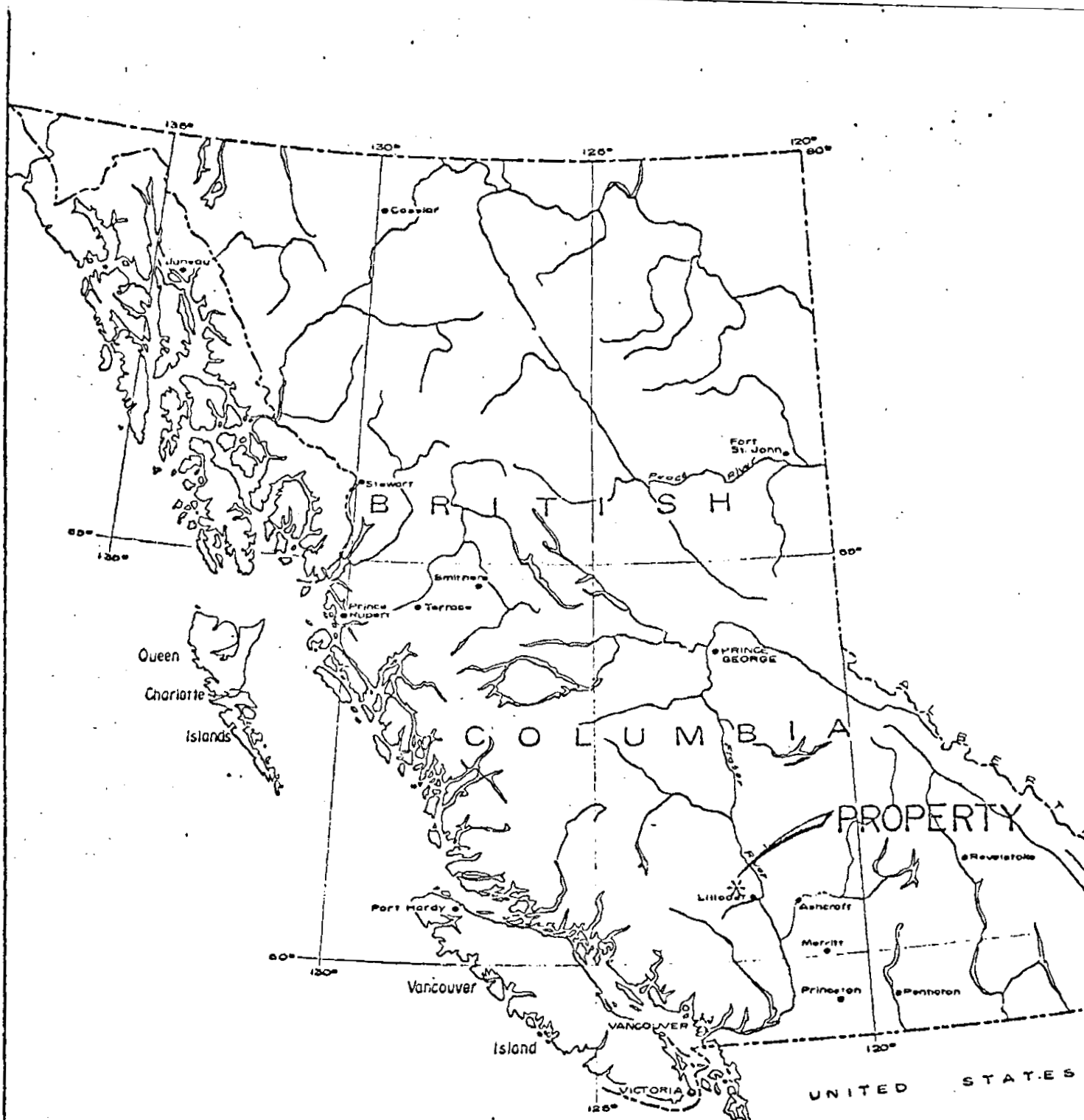
A Report
on the
Magnetic and Electromagnetic
Surveys

on the
PINE GROUP
of
mineral claims
92-J-15-W
Lillooet Mining Division
Goldbridge, B.C.

Long 122 48' Lat. 50 49'

Levon Resources Ltd.
1040-609 Granville St.
Vancouver, B.C.

by
P.S. Friesen P. Eng
Dec 1983



LOCATION MAP
PINE GROUP MINERAL CLAIMS

NTS.92 J 15 W
INDEX MAP

SCALE
Km 160 80 0 160

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A Report on the Magnetic and Electromagnetic Surveys
on the PINE Group of Mineral Claims.

Goldbridge, B.C.

92-J-15-W

by

P.S. Friesen P. Eng

12 Dec 1983

INTRODUCTION

General

A magnetic and electromagnetic survey was carried out over the PINE group of claims. This report presents the results of the survey.

Property

The PINE group of mineral claims are grouped under certificate No. 980832 and consist of the following 14 claims.

<u>Record No.</u>	<u>(Month)</u>	<u>Name of Claim</u>	<u>Old Survey No.</u>
844	[7]	VI	L5186
845	[7]	JEAN	L5188
847	[7]	MALCOLM	L5187
857	[7]	PINOLA (Fr)	L3658
858	[7]	ALDER	L5182
859	[7]	PINE	L5183
860	[7]	POPLAR	L5184
861	[7]	POPLAR (Fr)	L5185
862	[7]	ASPEN	L6843
863	[7]	KATHLEEN (Fr)	L6484
864	[7]	DIANE #1 (Fr)	L6841
865	[7]	NANCY #3	L6842
866	[7]	NANCY #5	L6483
1110	[1]	FAWN (Fr)	L4822

The first three have July 25 as their anniversary date, the last one has January 16 and the rest have July 31 as their anniversary date.

Location and Means of Access

The PINE group is located in National Topographic Subdivision 92-J-15-W in the Lillooet Mining Division, near Goldbridge in British Columbia. The group is located at the intersection of longitude 122 48' and latitude 50 49'

Logging roads traverse the property and connect it with the road between Bralorne and Goldbridge. Goldbridge is connected with Lillooet, B.C. by an all-weather gravel road about 100 kilometers in length.

Ownership

The property is owned by Mr. Louis Wolfin of 1040 - 609 Granville St. Vancouver, B.C.

Previous Work

The claims in the PINE group are reverted crown-granted claims and as such, had improvements declared in order to qualify for a deed. Trenches can be found throughout the property but all are in overburden. No records of the work can be found.

In 1980, KERR, DAWSON & ASSOCIATES LTD. of Kamloops, B.C. carried out a soil sampling survey but only a few anomalous values of antimony and gold were obtained.

Regional geological mapping and an airborne magnetic survey were carried out by the government. No other work is known to have been done on the property.

Acknowledgements

The information in this report is based upon personal

examination of the surface and data included in the B.C. Dept. of Mines Monofile. Messr. Scott Wilkie and Steve Presunka operated the instruments for the current geophysical survey.

References

- 1972 - Aeromagnetic Sheet - Taughton Sheet No. 8552G -
1 inch = 1 mile.
- 1977 - Woodsworth - GSC - Pemberton Sheet 92-J. open file
No. 482.
- 1980 - Geochemical survey - KERR, DAWSON & ASSOCIATES LTD.
B.C. Dept. of Mines Monofile.

GEOCHEMISTRY

General

In 1980, Kerr, Dawson and Associates Ltd. of Kamloops carried out a soil sampling program over the Pin group. They collected 169 soil samples at 50 meter intervals along lines spaced 300 meters apart. The lines ran east-west and were controlled by a north south baseline.

Several anomalous values of antimony and gold were obtained. The results are too scattered to form a zone.

GEOLOGY

The PINE group is underlain mainly by sedimentary rocks of the Hurley and Fergusson Formation of the Upper Triassic Period. Conglomerates with subrounded pebbles up to 2 inches across are common. Some black schistose shale is also exposed to the west of the claim, red aplitic granite with quartz seams intrudes the black shales. A dusting of galena was observed on a fresh break in the granite. The sediments are flanked by green andesitic volcanics.

The formations trend in a north 10 degrees west direction.

No deposits of economic importance are known to occur on the property.

GEOPHYSICS

General

A magnetic and an electromagnetic survey were carried out on the property in October 1983. The results are presented and discussed in this report.

Survey Control

A baseline 3 kilometers in length was established to pass through the survey pin at the north west corner of the KATHLEEN Fr. [863] so that the survey pin was the 6+00 north station on the baseline. The bearing of the baseline is north 4 degrees west. Crosslines were established at 100 meter intervals. These are of varying lengths depending upon the location of the property boundary or impassable topographic features.

A total of 25.95 kilometers of cross lines were established. Stations were established at 10 meter intervals along the crosslines.

Period of Survey

The geophysical surveys were carried out over the PINE group during October, 1983.

Operators

The surveys were carried out under the supervision of P.S. Friesen, a professional engineer. Mr. Steven Presunka and Phillip Scott Wilkie did the electromagnetic survey and Mr. Wilkie also did the Proton Magnetometer Survey.

Instruments

The electromagnetic unit used was the Ronka EM-16 unit with the serial number of 2. The VLF stations used were Seattle and Hawaii.

The magnetometer was a Barringer Proton Magnetometer, serial No. 6282. The magnetometer measures the total intensity in gammas with a sensitivity of one gamma. It has a range of 20 to 100 K gammas.

Interpretation of the Geophysical Surveys

The VLF electromagnetic survey detected nine conductors more or less parallel to the formational trend. One conductor is slightly cross cutting and may be due to a shear zone with acid waters. There are small layers of limestone and also graphitic shales in the district which may explain the conductors parallel to the formations.

Description of Conductors in order of Importance

EM No. 1 - This is west of the property at the north end. No further discussions is offered at this time.

EM No. 2 - This conductor lies on the east side of the northern half of the property. It shows an "s" drag or

possibly a left-hand offset along a fault trending north 40 degrees east. The isomagnetic contours indicate that the conductor parallels the formational trend and it may be due to a graphitic horizon. However, a silicified, granitic formation is reported at the location where the southern end of the conductor leaves the PINE mineral claim. This area needs further investigation.

EM 3 and 4 - These conductors are parallel, trending north 25 degrees east and cross the two southern most mineral claims. Good correlation is obtained with the isogamma contours. They trend across the regional trend and for this reason require further investigation. One soil sample over Conductor No. 3 showed antimony to be present. Gold values were slightly anomalous in soil samples taken at the south end of these conductors. No bedrock exposures were found in this area.

EM 5 & 6 are two northerly trending conductors which also parallel the isogamma contours. They appear to be associated with two or more horizons within the formation. Conglomerates are the only formations exposed.

EM 7 - This conductor is a short conductor associated with a magnetic "high". It parallels the formational trend. The "in phase" contours obtained from the VLF station at Hawaii strongly suggests that this conductor is a cross structure and for this reason should be investigated in detail.

EM 8 - This conductor is south of EM 5 and may be another segment of the same conductive zone.

EM 9 - This is a short conductor trending in a northerly direction and crosses the boundary between the FAWN Fr. and DIANE No. 1 Fr. mineral claims. It appears to be on the boundary between two formations of different magnetic susceptibilities.

Conclusion

The conductive zones on the PINE group appear to be of two types; those that are due to formational characteristics and those that are related to cross structures.

Exploratory soil geochemistry has indicated the presence of some anomalous values of gold and antimony in or near the conductive zones. Detailed surface exploration followed by diamond drilling is warranted.

Recommendations

The reason for the conductivity in each zone needs to be determined. Em 2 is near a large exposure of conglomerate and by locating the conductor as near as possible to the outcrop it may be possible to strip the overburden from the conductor. The outcropping is alongside the logging road and only a minor amount of stripping may be needed.

Detailed soil sampling should be carried across each of the conductors at stations spaced a minimum of 5 meters apart along several short lines spaced about 30 meters apart.

The EM unit should be used to trace conductor EM 7 in detail. If this proves to be a cross structure and additional soil sampling shows gold to be present, a drilling program should be planned.

Because the area is being actively logged at the time of this survey, conditions may change which could render soil sampling useless in some areas. For this reason, some allowance for changes in an exploration program must be made.

Respectfully Submitted


P.S. Friesen P. Eng.

ESTIMATION OF COSTS

Phase 1

Rental of VLF. E.M. unit	1,000.00
Operation 10 days at 100.00	1,000.00
Sampling - 300 samples @ 5.00 /sample	1,500.00
Assaying - 300 samples	4,500.00
Engineering	4,000.00
Expenses	<u>2,500.00</u>
	14,000.00
Contingences	<u>1,400.00</u>
	\$ 15,400.00

Phase 2

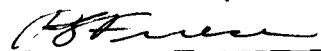
Diamond drilling of conductive zones	
2 holes per conductor minimum	
18 x 200 = 3600 feet @ 25.00	\$ 90,000.00
Assaying	5,000.00
Engineering	<u>5,000.00</u>
	\$100,400.00

J. H. Kiser

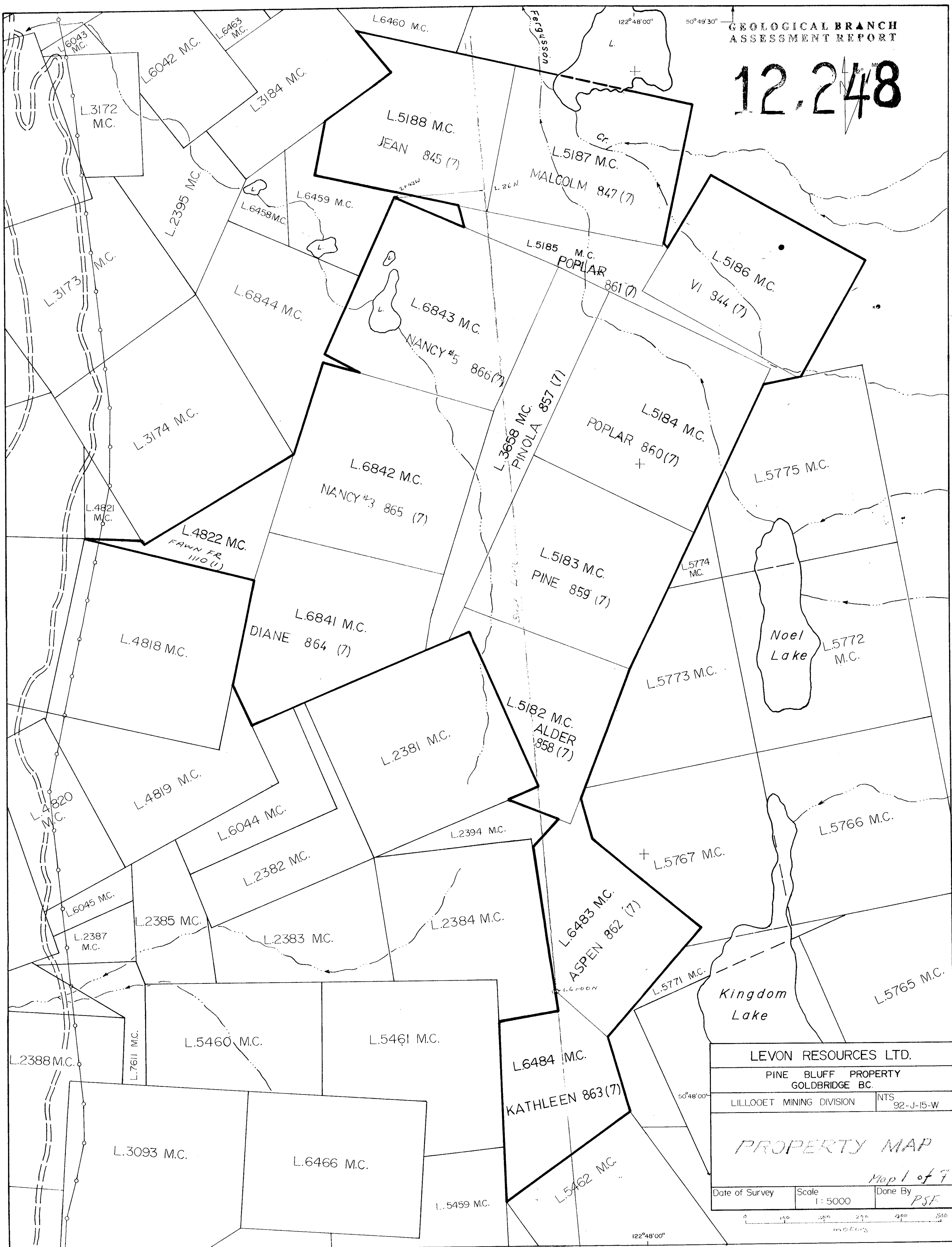
CERTIFICATE OF QUALIFICATION

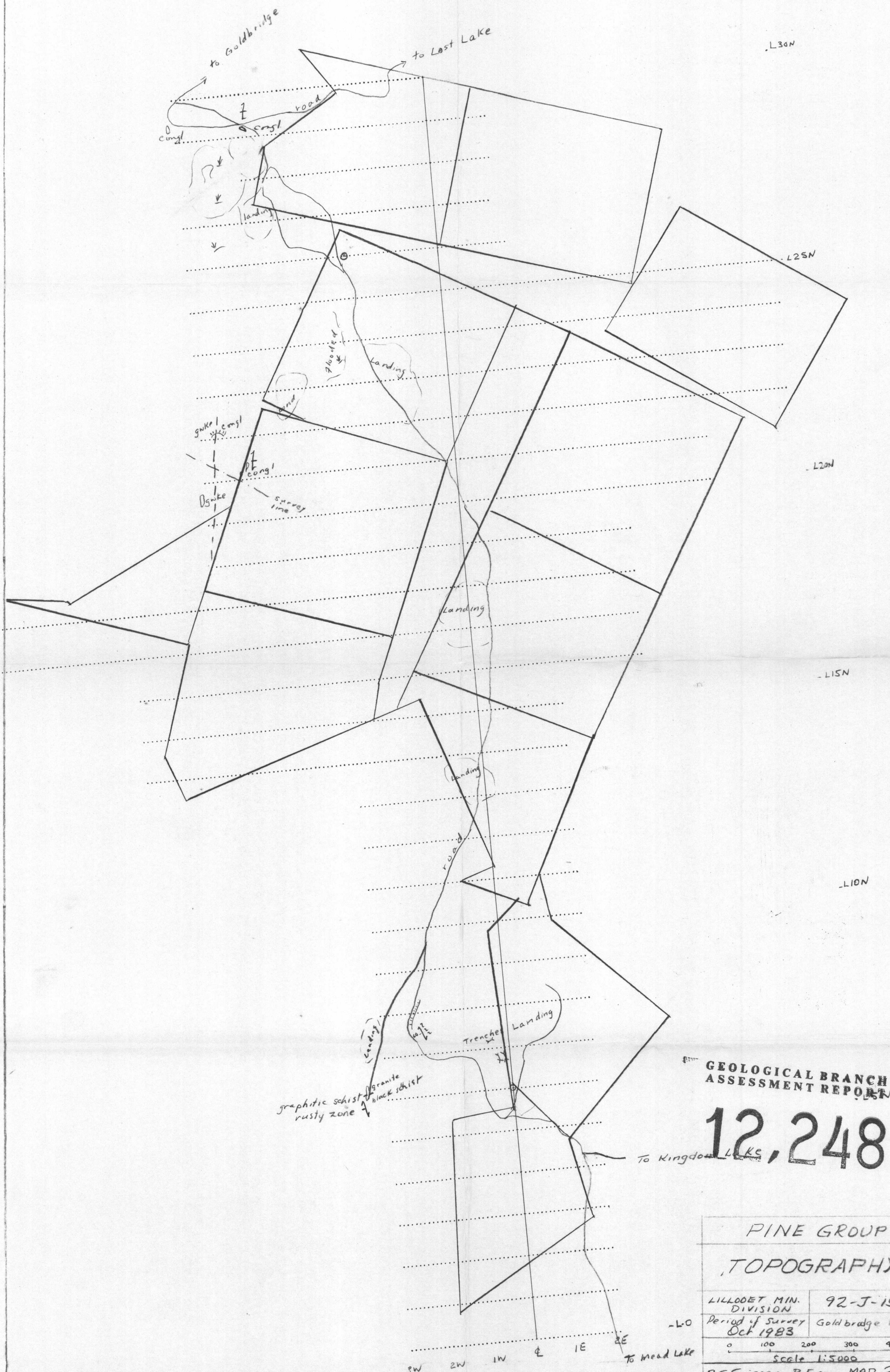
This is to certify that:

- 1) I, Peter S. Friesen reside at 6780 Sumas Prairie Rd., Sardis, B.C.
- 2) I am a graduate of the University of Saskatchewan where I received a degree of Bachelor of Engineering in Geological Science in 1950.
- 3) I have practiced my profession for 32 years.
- 4) The information in this report is based upon available government records and personal knowledge of the area.
- 5) I am a professional engineer registered in the Province of British Columbia.
- 6) I have no interest directly or indirectly in the PINE Group of mineral claims nor do I expect to receive any.
- 7) This report may be used in a prospectus or in a Statement of Material Facts for the purpose of raising funds for the project.


P.S. Friesen P. Eng.

9 January 1984





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PINE GROUP	
TOPOGRAPHY	
LILLOOET MIN. DIVISION	92-J-15-W
Period of Survey	Goldbridge B-C
Oct 1983	
Scale 1:5000	
PS Friesen, P Eng MAP 2 of 7	

Magnetometer Survey
Instrument - Rarringer Proton Mag.
Serial No 6282
Operator Scott Wilkie
Period: Feb to Apr 14, 1983
Gamma Readings are absolute
Range 236 to 1000 G

0 100 200 300 400 500m
Scale - 1:5000

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PINE GROUP
Lillooet Mining Division 92-J-15-W
Goldbridge B.C.
Oct 1983
P.S. Friesen P.Eng. Map 3 of 7

L-0

L-52

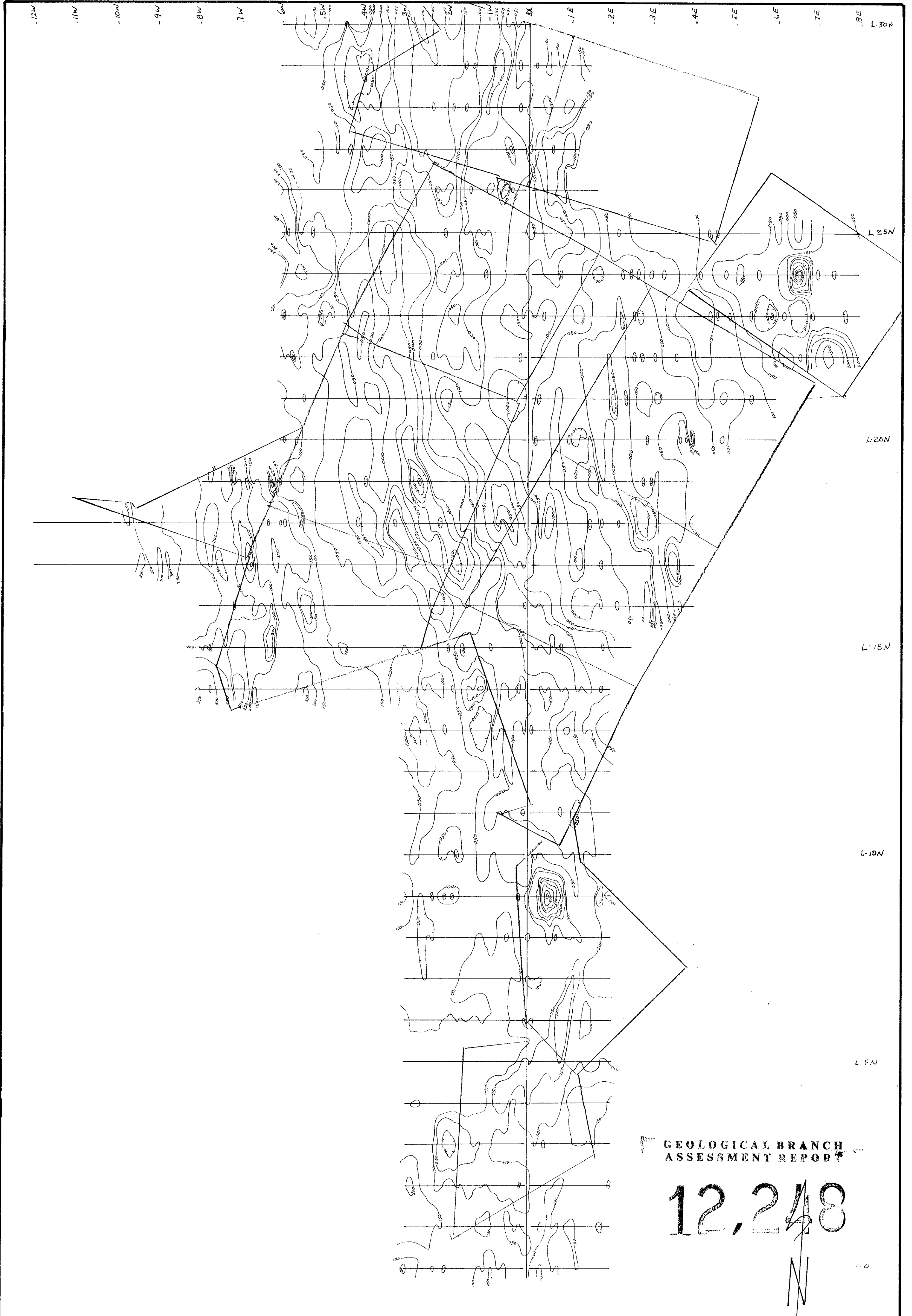
L-62

L-15N

N 08 7

L-25N

L-30N



Magnetometer Survey
Instrument: Barringer Proton Mag.
Serial No. 6282
OPERATOR: Scott Wilkie.
Period: Oct 6 to Oct 14, 1983
Contour Interval: 50 gammas
Measurement: total intensity.
Range: 208 to 100K.

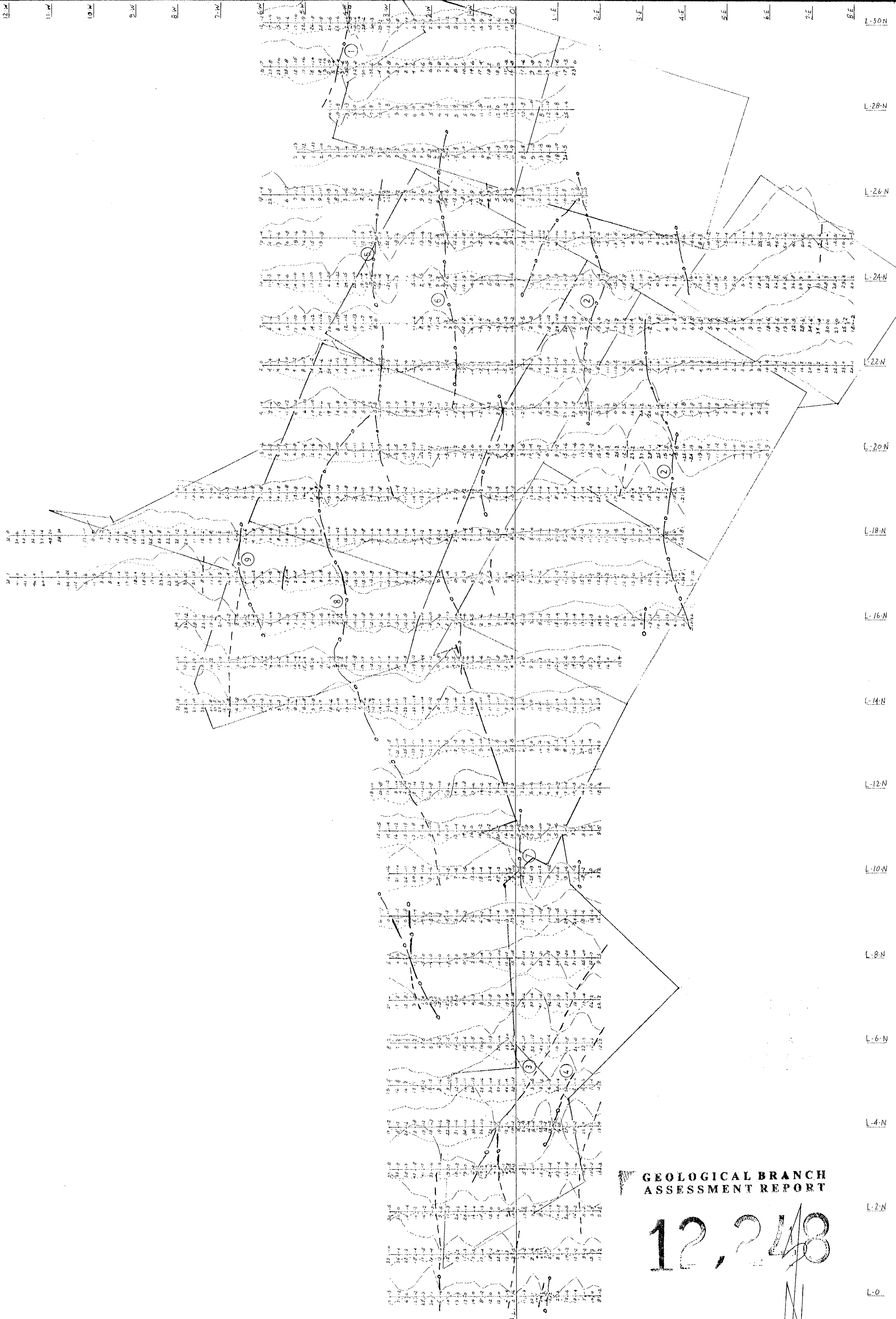
0 100 200 300 400 500m
Scale 1:5000

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PINE GROUP
Lillooet Mining Division 92-J-15-W
Goldbridge BC
Oct 1983
P.S. Friesen P. Eng. MAP 4 of 7

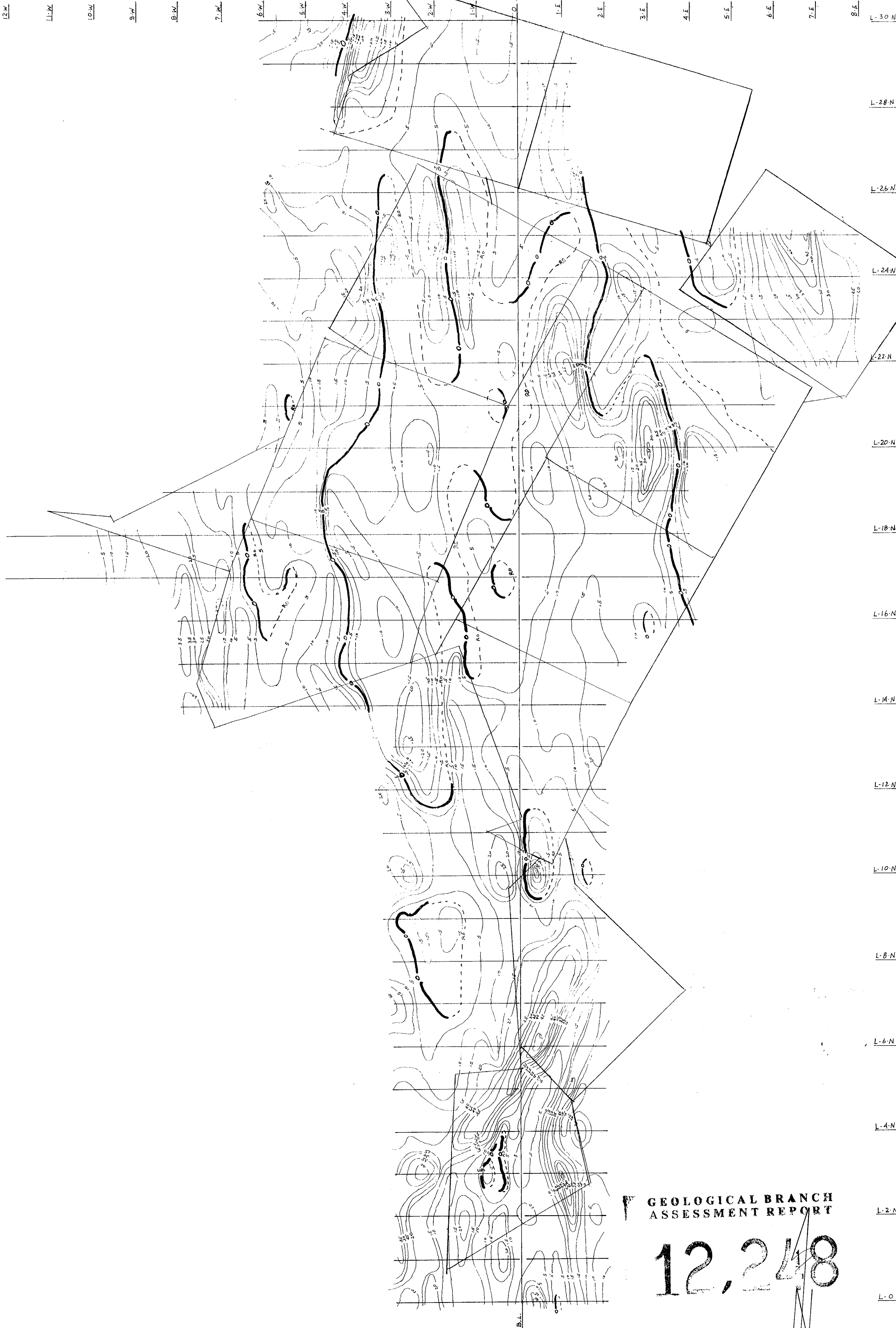


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ELECTROMAGNETIC SURVEY
INST. RONKA-EM-16 SERIAL No. 2 VLF-ST 24.8
INPHASE PROFILE
QUADRATURE PROFILE
CONDUCTORS
SECONDARY CONDUCTORS
DATE: OCTOBER 1983
SCALE: 1:5000 0 100 200
METERS S. PRESUNKA

PINE GROUP
Lillooet Mining Division 92-J-15-W
Goldbridge B.C.
Oct 1983
P.S. Friesen P. Eng. Map 5 of 7



ELECTROMAGNETIC SURVEY
INST. RONKA EM-16 SERIAL NO. 2 VLF ST. 24.8
INPHASE CONTOURS 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
CONDUCTORS 0
REVERSE CROSS-OVER RO
DATE: OCTOBER 1983
SCALE: 1:5000

100 200
METERS

S. PRESUNKA

PINE GROUP
Lillooet Mining Division 92-T-15-W
Goldbridge B.C.
Oct 1983
P.S. Friesen P. Eng. MAP 6 of 7



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ELECTROMAGNETIC SURVEY
INST. RONKA EM-16 SERIAL No. 2. VLF. ST. 23.4
INPHASE CONTOURS — 5 — 5
CONDUCTORS — 0 — 0
REVERSE CROSS-OVER — — — — RO — — — —
DATE: OCTOBER 1983
SCALE: 1:5000 0 100 200
METERS

PINE GROUP
Lillooet Mining Division 92-J-15-W
Goldbridge B.C.
Oct 1983
P.S. Friesen P.Eng. Map 7 of 7

S. PRESUNKA