

P.F.U. 1980:

GEOPHYSICAL REPORT ON THE STAGECOACH
AND PUMPKIN MINERAL CLAIMS LOCATED IN
THE NICOLA MINING DIVISION

at co-ordinates

$50^{\circ} 09' N$ and $120^{\circ} 46' W$

92 I/2 W

by

Thomas D. Lewis, P.Eng.

NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)
201-156 Victoria Street, Kamloops, B.C.

January, 1980

OWNER: Wayne Livingstone
4317 West 12th Ave.
Vancouver, B.C.

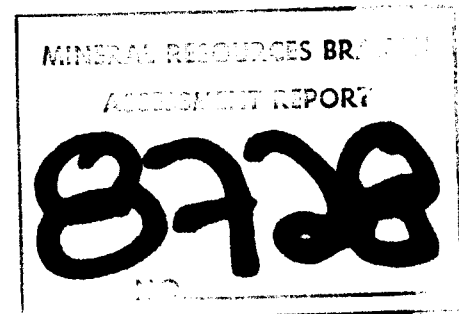


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DRAWING 2	VLF-EM SURVEY	<i>" "</i>

INTRODUCTION

The mineral claims referred to in this report are situated about 5 km at 015° (true) from the town of Merritt.

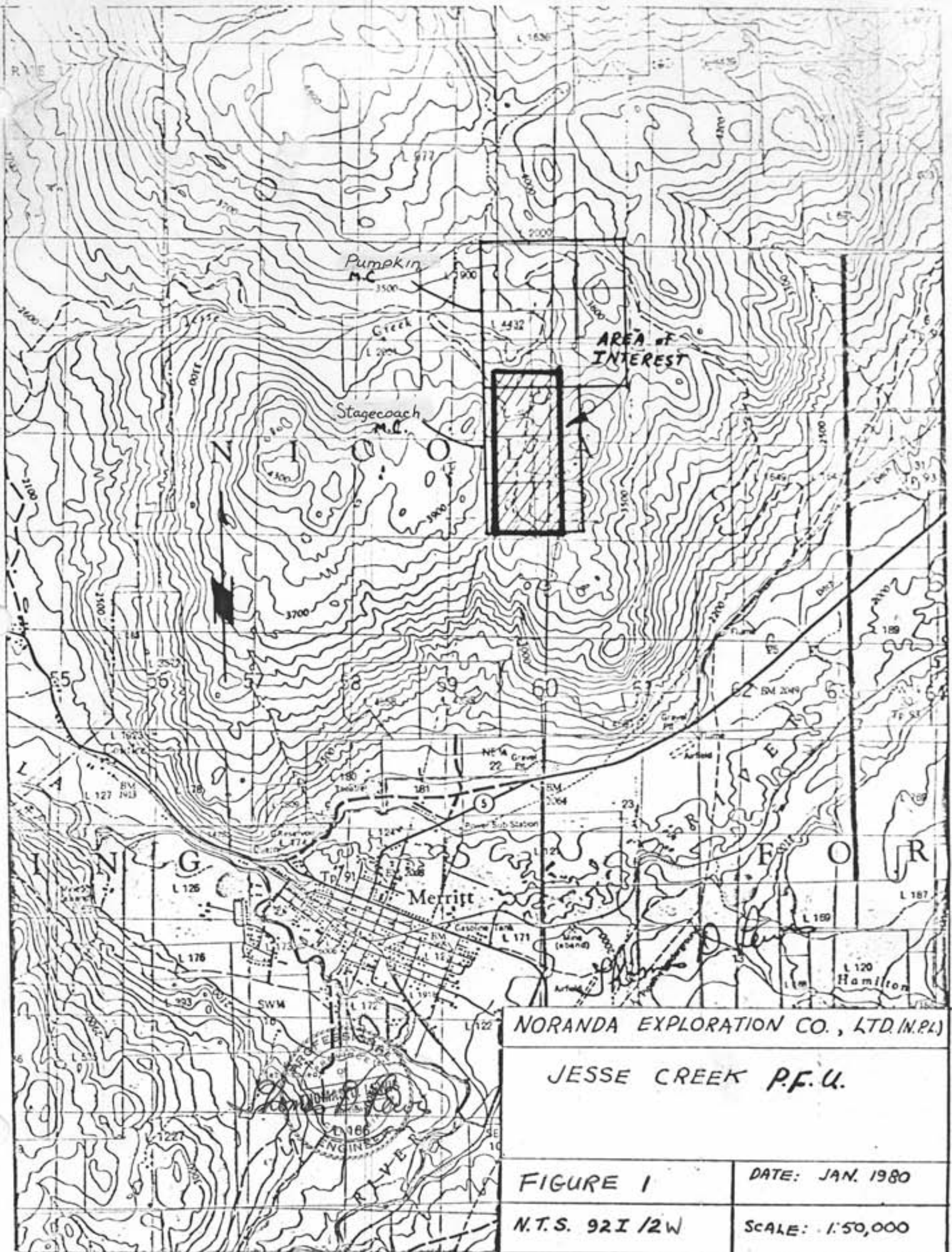
A preliminary geophysical follow-up consisting of Magnetometer and VLF-EM was completed over a flagged grid during the period of January 10 to January 23, 1980. Work on the property was carried out by T. Lewis of Noranda Exploration Company, Limited (No Personal Liability).

The purpose of the survey was to test a topographical low thought to be a favourable host for economic sulphides. In 1976, Quintana Minerals Corporation mapped the area of interest as consisting of limestone and calcareous sediments with minor green andesite and greywacke (after K.W. Livingstone, 1976).

LOCATION AND ACCESS

The Jesse Creek Property is centered on co-ordinates $50^{\circ} 09' N$ and $120^{\circ} 46' W$ on N.T.S. map-sheet 92I/~~2~~2W. This point is 5 km at 015° (true) from the town of Merritt, B.C. The claims cover a north trending depression south of the headwaters of Jesse Creek. The area occurs in gentle rolling hills with elevations varying from 1128 meters to 1189 meters (A.S.L.).

Access is by two gravel roads, one departing from the Guichon Creek valley and following up Jesse Creek to the north end of the property. The second, branches off of Hwy 5 a few kilometers north of Merritt, and eventually connects with the northerly route.



NORANDA EXPLORATION CO., LTD. (N.P.L.)

JESSE CREEK P.F.U.

FIGURE 1

DATE: JAN. 1980

N.T.S. 92 I / 2 W

SCALE: 1:50,000

CLAIM STATISTICS

All claims are in the Nicola Mining Division and are registered to Wayne Livingstone of 4317 West 12th Avenue, Vancouver, B.C.

Pending the results of this report, Noranda Exploration Company, Limited (No Personal Liability) has been offered first refusal on the property.

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Record Date</u>
Stagecoach	382	6	Feb. 6, 1978
Pumpkin	383	9	Feb. 6, 1978

CONTROL GRID

The Jesse Creek Property control grid was established during January, 1980, using metric chain and Silva compass.

The 100 + 00 E baseline was established on a north-south (true) bearing from lines 100 + 00 N to 95 + 00 N. Perpendicular to the baseline, crosslines were run at 100 meter intervals.

From line 95 + 00 N to line 83 + 50 N, the gravel road extending the length of the property was designated the baseline. At 100 meter intervals along the road stations were established and east-west (true) crosslines placed.

All lines have been flagged and stations established every 50 meters using felt pen on yellow flagging. A total of 7.25 line kilometers have been flagged and stations marked on the Jesse Creek Property.

GEOPHYSICAL SURVEYS

Introduction

Two geophysical surveys were carried out on this claim group.

VLF-EM SURVEY

Introduction

The VLF-EM survey was carried out by T. Lewis of Noranda Exploration Company, Limited.

The receiver used was manufactured by Sabre Electronic Instruments Ltd. of Burnaby, B.C. The transmitter is located at Seattle, Wash., transmitting at a frequency of 18.6 KHz.

The tilt angle null (in degrees) were recorded at 25 meter intervals for a total of 7.25 line km.

Field Procedure

With the V.L.F. receiver held horizontally, the instrument is rotated in the plane until a null is observed. In this position, the coil axis points in the direction of the transmitter. This defines a vertical plane, perpendicular to the transmitter.

The receiver is then held in this vertical plane (operator facing the transmitter) and rotated until a minimum signal is observed. The dip angle of the null is read on the receiver inclinometer and recorded. The following sign convention is used:

- a) Top of the coil to the right of the operator - sign positive.
- b) Top of the coil to the left of the operator - sign negative.

Presentation of Results

The VLF-EM dip angle results are plotted on a grid plan map (dwg) at a scale of 1:5000. The resultant dip angles are shown as continuous profiles with a vertical scale of 1cm=20°.

Discussion of Results

The dip angle crossovers are numerous, however the existing lines need be extended, and fill in lines added for a meaningful interpretation. However, a weak anomaly trending N20° E is developing from the central to the north position of the property.

MAGNETOMETER SURVEY

Introduction

The magnetometer survey was carried out by T. Lewis, of Noranda Exploration Company, Ltd.

The magnetometer (Scintrex model MF.2) was manufactured by Scintrex of Concord, Ontario.

The relative, vertical component of the magnetic field (in gammas) was recorded at 25 meter intervals for a total of 7.25 line km.

Field Procedure

The magnetometer was adjusted on the property such the most readings or "background" values would fall with the lowest positive range in order to attain the highest accuracy. This adjustment, once made is not changed for the duration of the survey.

Noranda Exploration Company, Ltd.
(Preliminary Cost)

STATEMENT OF COSTS

Project: Jesse Creek P.F.U. Date: Jan 1980

Type of Work: Geophysics

a) Wages

No. of days in the field	7 days	
Rate per day	73.228655	
dates	Jan 10, to Jan 23, 1980	
Total Wages		\$ 512.60

b) Transportation

No. of days	7 days	
Rate per day	35.00	
Dates	Jan 10 to Jan 23, 1980	
Total Cost	7 x \$35.00	245.00

c) Instrument rental

Type of Instrument	- EM	
No. of days	7 days	
Rate per day	8.00	
Dates	Jan 10 to Jan 23, 1980	
Total Cost	7 x \$ 8.00	56.00

Type of Instrument - Mag

No. of days	7 days	
Rate per day	5.00	
Dates	Jan 10 to Jan 23, 1980	
Total Cost	7 x \$ 5.00	35.00

Cost for preparation of report

Author	3 @ 105.35	316.05
Drafting	2 @ 169.31	338.62
Typing	1 @ 100.00	100.00

Food

No. of days	7 days
Rate per day	\$10.00
Dates	Jan 10 to Jan 23, 1980

Total Cost	7 x \$10.00	70.00
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Other


Supervision	2 days @ \$226.00	<u>452.00</u>
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TOTAL COST		<u>\$2,125.27</u>
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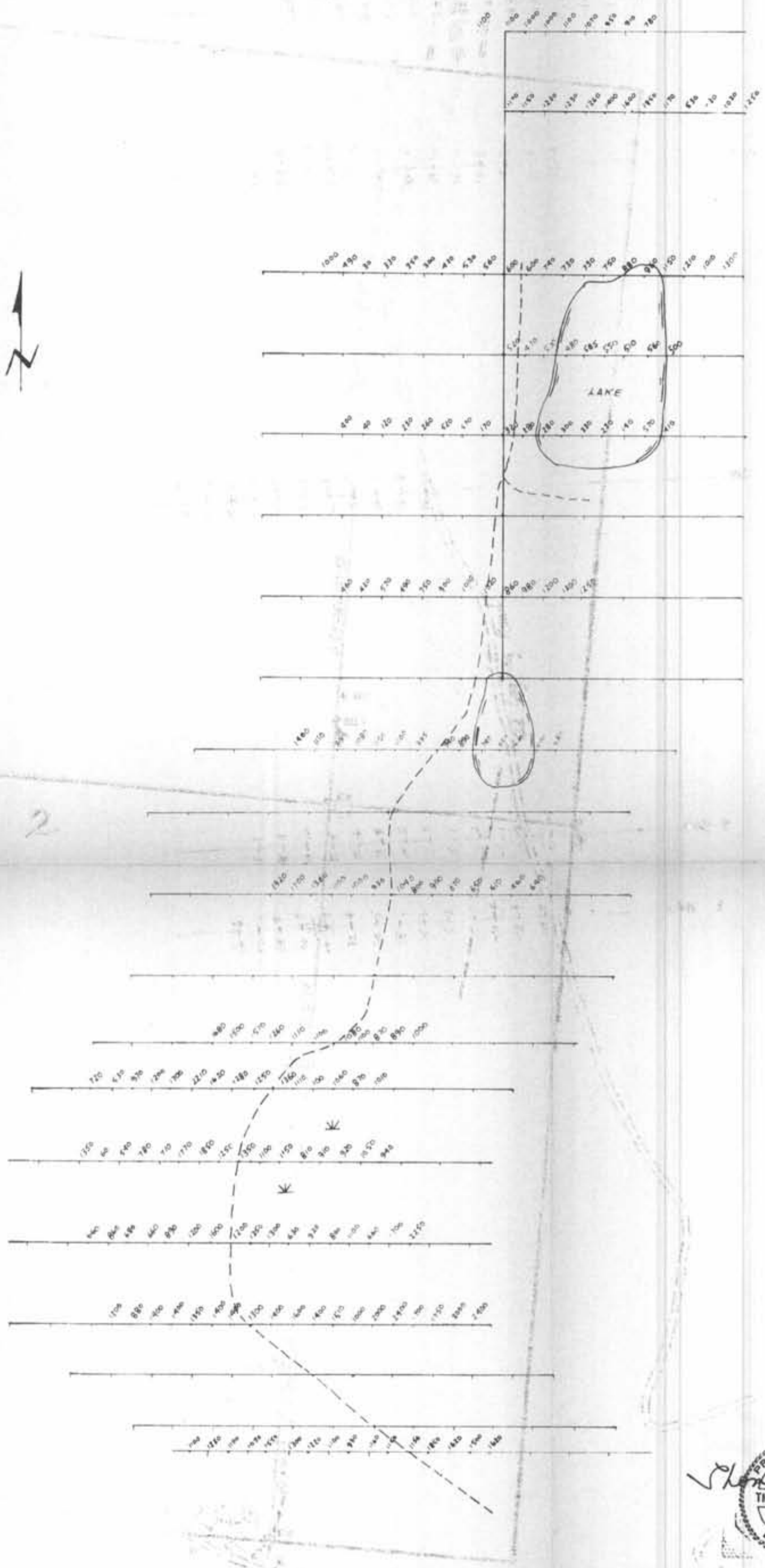
STATEMENT OF QUALIFICATIONS

I, Thomas D. Lewis of the City of Kamloops, Province of British Columbia, do certify that:

1. I have been employed as a geologist by Noranda Exploration Company, Limited since April, 1979.
2. I am a graduate of Queen's University with a Bachelor of Applied Science in Geology (1975).
3. I am a member of the Association of Professional Engineers of the Province of British Columbia.
4. I am a member of the Canadian Institute of Mining and Metallurgy.


Thomas D. Lewis
Thomas D. Lewis, P. Eng.,
Geologist,
Noranda Exploration Company, Limited
(No Personal Liability)

8728



- Line 100 N
- 99 N
- 98 N
- 97 N
- 96 N
- 95 N
- 94 N
- 93 N
- 92 N
- 91 N
- 90 N
- 89 N
- 88 N
- 87 N
- 86 N
- 85 N
- 84 N

ZAP 2



METRES

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8728
NO.



JESSE CREEK PFU

MAGNETOMETER SURVEY

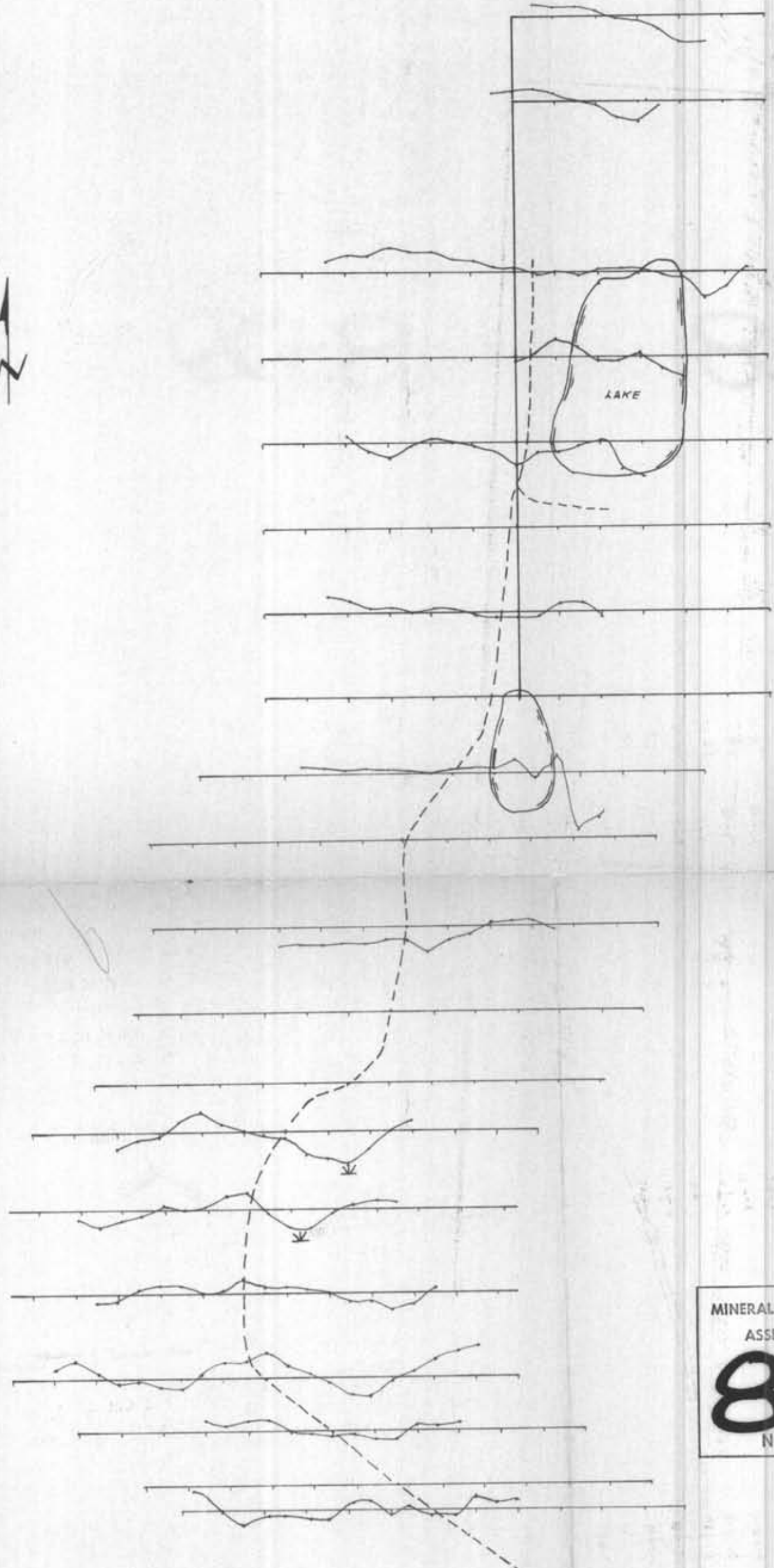
JAN 1980
1 5000

NORANDA EXPLORATION

KAMLOOPS, B.C.

92I-2

#1



Line 100 N

99 N

98 N

97 N

96 N

95 N

94 N

93 N

92 N

91 N

90 N

89 N

88 N

87 N

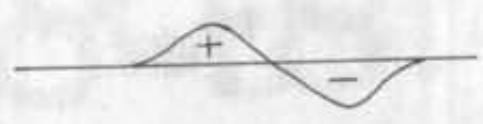
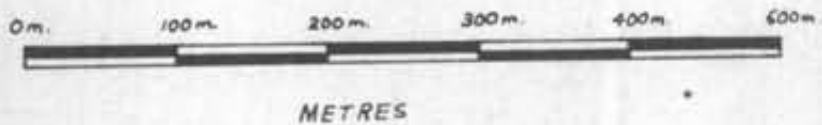
86 N

85 N

84 N

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
8720
 NO.

Thomas Lewis, P. Eng.
 PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA



REVISED	JESSE CREEK P.F.U.	
	VLF-EM SURVEY	
	DIP ANGLE PROFILES	
	VERTICAL SCALE 1cm = 20°	
	TX: SEATTLE, WASH.	
PRJ. NO.	SURVEY BY T. LEWIS	DATE JAN. 1980
N.T. 92I-2	DRAWN BY T. LEWIS	SCALE 1:5000
DWG. NO. 2	NORANDA EXPLORATION	
	OFFICE KAMLOOPS, B.C.	