

4342

Geochemical Survey
of the
Beckl 1-27, 29, 31 and 33-40
Mineral Claims

49° 44' N 120° 27' W

92H / 9W

R.C. Heim, P. Eng.

J.D. Khauer

Noranda Exploration Company, Limited

Vancouver Mining Division

August 15, 1972 to September 10, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4342 MAP

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Statement of Qualifications:

R.C. Heim, P. Eng.

J.D. Khauer

Map in Pocket:

#1 Soil Cu-Zn

No. 1

#2 Location map

Geochemical Survey
of the
Becki 1-27, 29, 31 and 33-40
Mineral Claims
Noranda Exploration Company, Limited

INTRODUCTION:

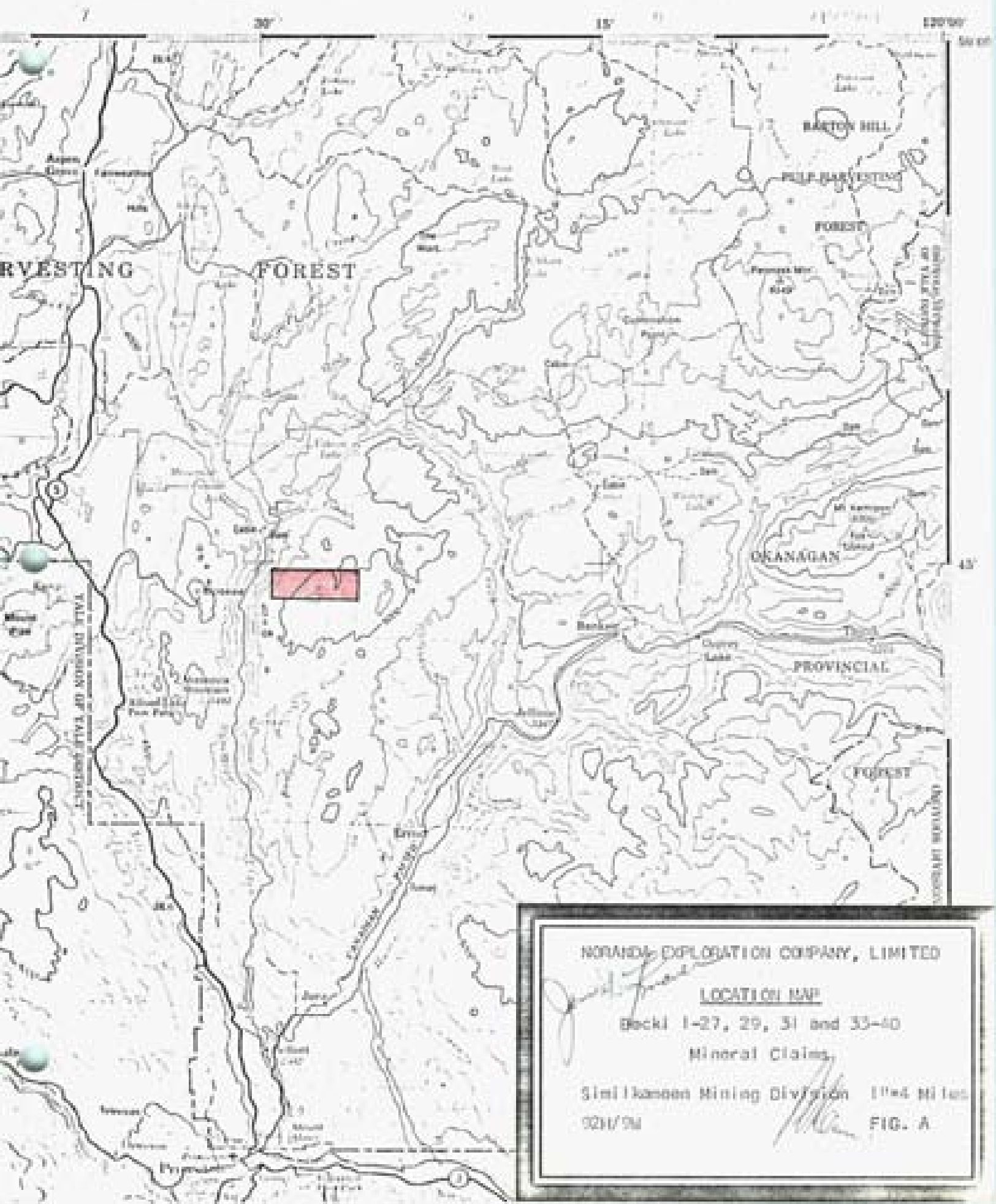
The claims referred to in this report consist of:

<u>Claim Name</u>	<u>Record Numbers</u>
Becki 1-27 inclusive	35244-35270 inclusive
Becki 29	35272
Becki 31	35274
Becki 33-40 inclusive	35276-35283 inclusive

The survey described in the following report was conducted within the boundaries of the above listed mineral claims. Their boundaries are shown on Drawing No. 1.

The claims are located approximately 20 miles N 8° E from Princeton, B.C. near the headwaters of Summers and Rampart Creeks, and south of Missezula Lake. Access to the property is along the Summers Creek road and from there by a 4-wheel drive road to the property. Elevation ranges from 3,900 feet to 5,600 feet. The claim group lies on a plateau. Vegetation is generally Jack pine with the occasional Spruce swamp.

Between August 15, 1972 and September 10, 1972 a geochemical survey was conducted after the necessary lines were prepared. All work was carried out by a Noranda Exploration Company, Limited crew of 4 men under the direction of R.C. Heim, P. Eng. with field supervision by J.D. Knauer, Geochemist.



NORANDA EXPLORATION COMPANY, LIMITED

John F. ...
LOCATION MAP

Blocks 1-27, 29, 31 and 33-40

Mineral Claims

Similkameen Mining Division 1"=4 Miles

02N/04E

[Signature]
FIG. A

Department of
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GENERAL GEOLOGY:

The general geology in the area covered by the Becki mineral claims indicates the property is within the Nicola Group, a complex series of volcanic rocks consisting mainly of basic lavas with intercalated tuffs, breccias and the occasional limestone bed. Four distinctive rock units were observed: Non-porphyrific andesite, porphyritic andesite, volcanic breccia and a medium-grained andesite. (Unpublished Noranda Exploration Company, Limited report by W. Shott, September 14, 1972).

GRID PREPARATION:

In order to carry out the geochemical survey, a control baseline was established by compass and chain with pickets every 200'. This baseline (20N B.L.) extends from 26E to 170E. This baseline had a bearing of 90°. Eighteen grid lines were laid out perpendicular to the baseline at 800 foot intervals. The length of the grid lines varies with the longest lines extending from 5 N to 65 N.

Grid lines were chained and flagged with 100 foot stations. Line development totalled 19.8 miles including the 20 N B.L.

GEOCHEMICAL SOIL SURVEY:

All soils were analyzed for copper, zinc and molybdenum in the Noranda Exploration Company, Limited laboratory located at 1050 Davie Street, Vancouver 5, B.C., analyst was Evert Van Leeuwen.

Sampling Method:

Samples were obtained by digging holes with a shovel, to a depth if feasible, where the visible C horizon or sub-outcrop was encountered. The C horizon was sampled and the B horizon, where visible, was also sampled. The samples were placed in "Hi West Strength Kraft 3½" x 6 1/8" Open End" envelopes and the grid station was marked on the envelopes with indelible felt pens. Soil samples were taken at 400 foot intervals along the grid lines.

Laboratory Determination Method:

The samples are first placed in a drying cabinet for a period of 24 to 48 hours. The sample material is then screened and sifted to obtain a -80 mesh fraction.

The determination procedure for total copper, zinc and molybdenum is as follows:

0.200 grams of the -80 mesh material is digested in 2 ml. of HClO_4 and 0.5 ml. of HNO_3 for approximately four hours. Following digestion, each sample is diluted to 5 ml. with demineralized H_2O . A Varian Techtron Model AA-5 Atomic Absorption Spectrophotometer was used to determine the parts per million copper, zinc and molybdenum content in each sample.

The Theory of Atomic Absorption Spectrophotometer is fully described in the literature and will not be described in this report.

Presentation of Results:

Results of this survey are presented in Drawing No. 1 of this report; plan map (scale 1 inch equals 1,000 feet) showing copper, zinc and molybdenum in parts per million. Copper values greater than or equal to 150 p.p.m. are indicated by a circle and zinc values greater than or equal to 160 p.p.m. are also circled.

No Values for molybdenum were plotted as all ran less than 2 p.p.m.

Discussion of Results:

Copper determination values show a background of less than 100 p.p.m. and anomalous values ranging from 150 to 650 p.p.m. Zinc values range from a background of less than 120 p.p.m. to anomalous values greater than 160 p.p.m. Molybdenum determination values were all less than 2 p.p.m. and considered to be of no apparent value to this survey.

Results of the soil survey are as follows:

1. From the results of copper, zinc and molybdenum in the soils, copper appears to be the only element of interest.
2. The most concentrated area of anomalous copper values lies in the northeast portion of the grid on lines 138E, 146E and 154E.
3. The above mentioned area is covered by overburden with no outcrop.
4. Coincident anomalous copper and zinc values occur at only three sample locations two on line 58E and one on line 66E.
5. The scattered anomalous copper values in the soil in areas of extensive outcrop do not appear to be related to copper mineralization from the geologic mapping to date.
6. Overburden on the property is mainly of glacial origin transported from north to south.

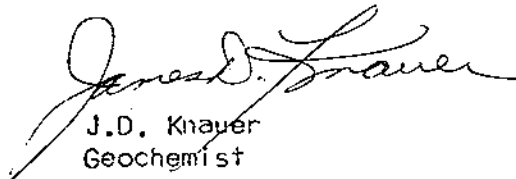
RECOMMENDATIONS AND CONCLUSIONS:

Results of the survey discussed in this report indicate the only area of possible interest lies in the northeast portion of the claim group.

Further work in the area of higher copper values should include the following:

1. Induced polarization.
2. More detailed geology.
3. Further work to be planned following positive results from the above survey.

Respectfully submitted,


J.D. Khauer
Geochemist



R.C. Heim, P. Eng.

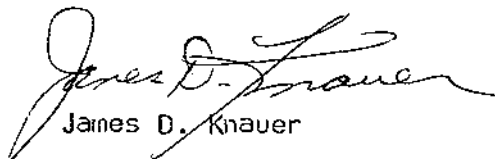
April 6, 1973

Statement of Qualifications

I, James D. Knauer of the City of Vancouver, Province of British Columbia do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since August 1964.
2. I am a graduate of the University of New Mexico with a Bachelor of Science Degree in Geology.
3. I am a member of the Geochemical Society.
4. I have held the position of Geochemist for Noranda Exploration Company, Limited, British Columbia since June 1965.

Dated at Vancouver
this 6th day of April 1973

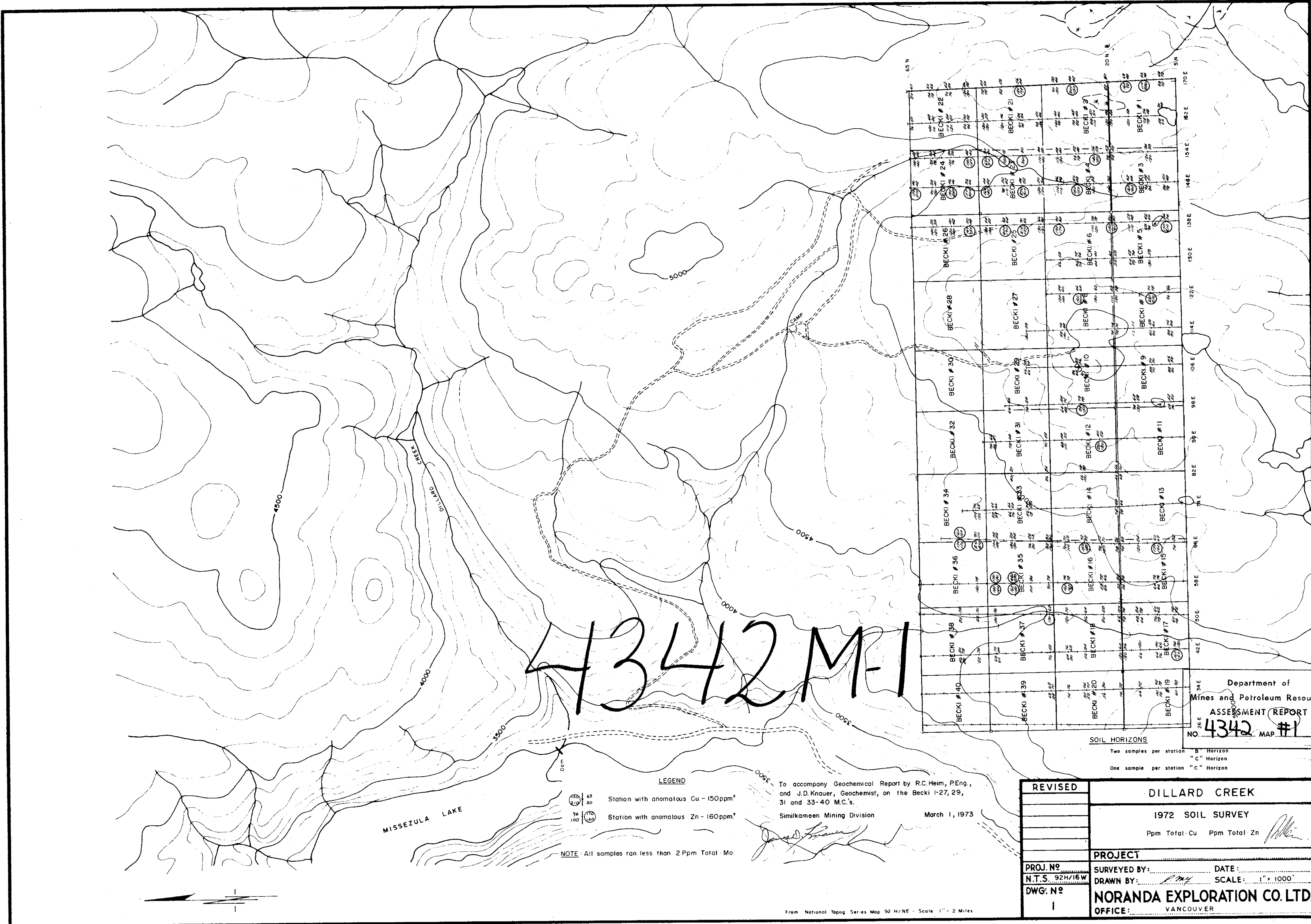


James D. Knauer

Geochemist

Noranda Exploration Company, Limited

(No Personal Liability)

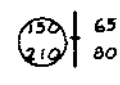
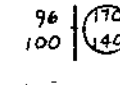


4342 M-1

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SOIL HORIZONS
Two samples per station "B" Horizon
"C" Horizon
One sample per station "C" Horizon

LEGEND

-  Station with anomalous Cu - 150ppm*
-  Station with anomalous Zn - 160ppm*

NOTE: All samples ran less than 2 Ppm Total Mo.

To accompany Geochemical Report by R.C. Heim, P.Eng.,
and J.D. Knauer, Geochemist, on the Becki I-27, 29,
31 and 33-40 M.C.'s.
Similkameen Mining Division March 1, 1973

J.D. Knauer

REVISED	DILLARD CREEK	
	1972 SOIL SURVEY	
	Ppm Total - Cu	Ppm Total - Zn <i>W</i>
PROJECT	NORANDA EXPLORATION CO. LTD.	
PROJ. NO.	SURVEYED BY: <i>R.M.</i>	DATE:
N.T.S. 92H/16W	DRAWN BY: <i>R.M.</i>	SCALE: 1" = 1000'
DWG. NO.	OFFICE: VANCOUVER	
1		

From National Topog Series Map 92 H/NE - Scale 1" = 2 Miles

