1935

GEOCHEMICAL SOIL SURVEY

JB 1-4, JB 7-10, TOM 3-10, IG #1 FRACTION

50° 120° NW

R.C. HEIM, Ph.D., P. Eng.

J.D. KNAUER

NORANDA EXPLORATION COMPANY, LIMITED

KAMLOOPS MINING DIVISION

MAY 8, 1969 TO JUNE 29, 1969

TABLE OF CONTENTS

Geochemical Soil Survey
of the
JB 1-4, JB 7-10, TOM 3-10
and IG #1 Fraction Mineral Claims
Noranda Exploration Company, Limited

INTRODUCTION:

The claims referred to in this report are owned by North Pacific Mines Ltd. (NPL) and under option to Thermochem Industries Limited (which changed its name to Brameda Resources Limited) which has a working agreement with Noranda Exploration Company, Limited (No Personal Liability). The names and record numbers of the claims are: JB 1-4, JB 7-10, TOM 3-10 and IG #1 Fraction: 50627 to 50630, 50633 to 50636, 52686 to 52693 and 78903 respectively. The survey was conducted on the above sixteen mineral claims and one fractional claim located approximately 16 miles south of Savona, B.C. Access to the claims is by loose-surface, all-weather road to a turn off approximately 3 miles north of the Mamit Lake - Witches Brook intersection, which can be reached from Ashcroft, Merritt or Savona, B.C. From this turnoff a two-wheel drive road leads west to the claims. A four-wheel drive vehicle was used to transport men, equipment and supplies during the course of the survey.

Elevation ranges from 3,600 to 4,300 feet. Topography is gentle and rolling with local steep slopes and cliffs.

Previous work on the area covered by this survey included an Induced Polarization survey, bulldozer trenching, Magnetometer survey and limited diamond drilling.

During May and June of 1969 Noranda Exploration Company, Limited extended and reestablished an existing grid. Following this a Geochemical Survey was performed on the JB 1-4, JB 7-10, TOM 3-10 and IG #1 Fraction claims.

Work was done under the direction of R.C. Heim, Ph.D., P. Eng. with field supervision by J.D. Knauer and a crew of ten men. Results of the Geochemical survey are plotted on a 1 inch to 400 feet base map. The survey was carried out from May 8 through June 29, 1969.

GENERAL GEOLOGY:

The area of the survey is underlain by quartz diorite and porphyries of the Guichon Creek batholith. Mineralization consists of pyrite, chalcopyrite, bornite, magnetite, hematite and molybdenite. Secondary minerals include malachite, azurite and chrysocolla. Mineralization is associated with shearing and fractured zones.

GRID:

Roads, creeks, topography and tie lines were used in plotting the exact location of the existing grid and extensions on a topographic map made from aerial photographs. A control base line extends east-west. This base line was chained, blazed and pickefed at 100-foot intervals. Lines running north-south were established by chain and compass, marked by blazing, flagging and pickets. The north-south lines were spaced at 400-foot intervals east-west along the base line.

GEOCHEMISTRY:

All samples were analyzed for copper and molybdenum in the Noranda Exploration Company, Limited laboratory located at 1050 Davie Street, Vancouver 5, B.C.

Sampling Method:

Samples were obtained by digging holes with a mattock and shovel, to a depth at which the visible grey C Horizon was encountered. The C Horizon was sampled and the lower part of the B Horizon, where visible, was also sampled. Profiles were taken at specific locations on the grid. The sampled material was placed in "Hi Strength Kraft, 3 1/2" by 6 1/8" Open End" envelopes and the grid station locations were marked on the envelopes with indelible felt pens.

Soil samples were taken at 200-foot intervals along the north-south lines.

Laboratory Determination Methods:

The samples are first hung in a dry cabinet for a period of 24 hours to 48 hours. They are then mechanically screened and sifted to obtain a -80 mesh fraction.

The determination procedure for total copper is as follows: 0.125 grams of -80 mesh material is fused with potassium bisulfate. This is dissolved in .5 ml. of 0.5N hydrochloric acid. A 2 ml. aliquot is shaken with 10 ml. acetate buffer and 1 ml. biquinolin solution. The samples are then compared with colorimetric standards.

The determination procedure for total molybdenum is as follows: 0.1 gram sample of the -80 mesh material is fused with a sodium carbonate mixture. It is then dissolved in water (demineralized) and diluted to 10 ml. A 2 ml. aliquot is shaken with 2 ml. hydroxlyamine hydrochloride solution and 0.5 ml. dithiol solution. The samples are then compared with colorimetric standards.

Presentation of Results:

Results of this survey are presented on a plan map showing copper and molybdenum determinations in parts per million. Copper values greater than 300 p.p.m. are contoured by solid lines and molybdenum values greater than 2 p.p.m. are contoured by dotted lines.

Discussion of Results:

Values for total copper range from a background of less than 150 p.p.m. to a maximum intensity of 1,200 p.p.m. Molybdenum values showed a background of 0-2 p.p.m. with only 9 determinations greater than 2 p.p.m. and these were all 5 p.p.m. Results for copper show an anomalous zone extending north-south in the central and eastern portion of the grid. Smaller anomalies are indicated around the larger anomalous zone. The 5 p.p.m. molybdenum values are indicated on the enclosed map, but are not intense enough to be considered anomalous.

RECOMMENDATIONS AND CONCLUSIONS:

Recommendations are as follows:

1. Extension of the soil survey to the north and east,
2. Extension of the Induced Polarization survey.

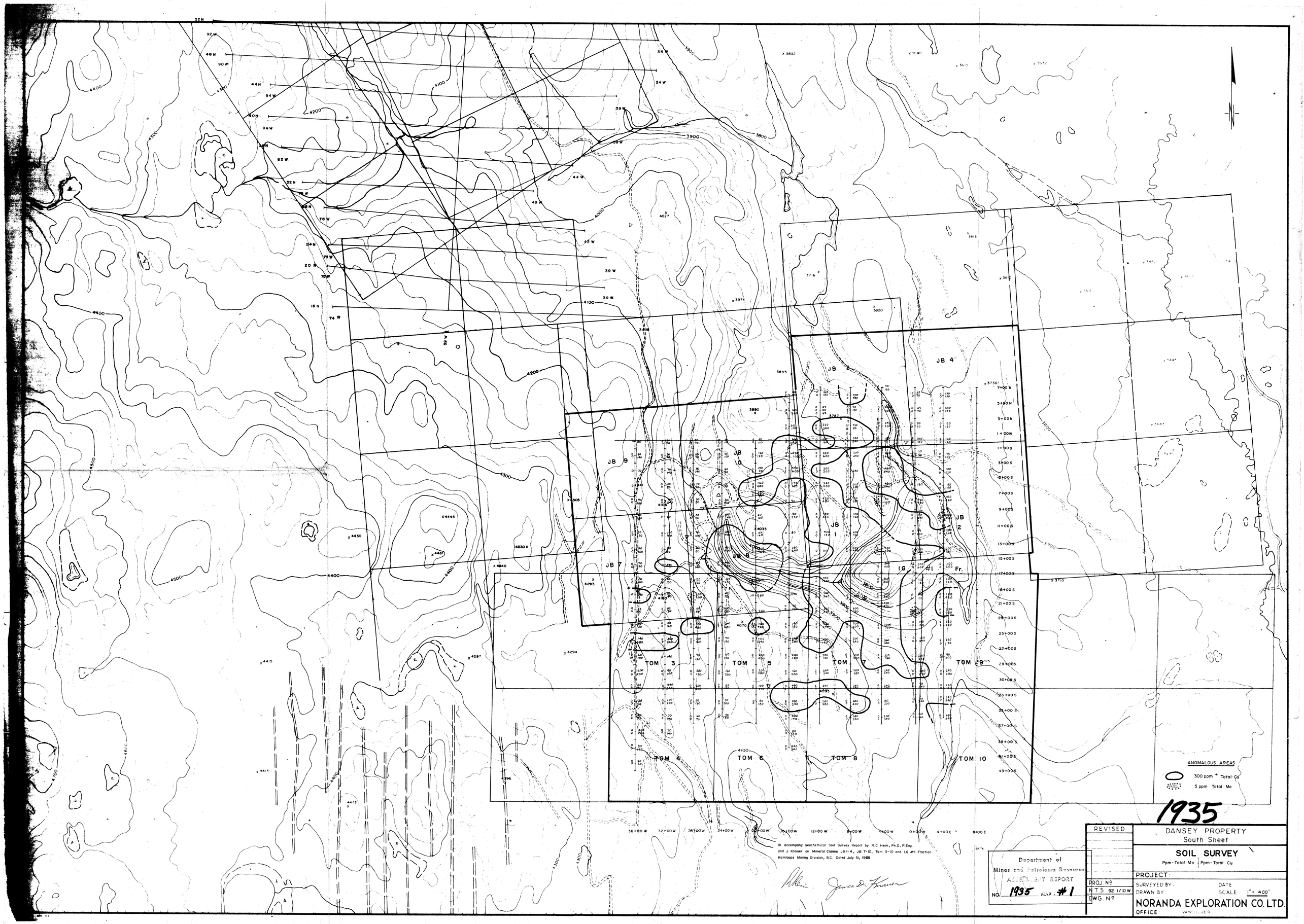
Upon completion of the above mentioned surveys a comprehensive study of all information including the completed detailed geological mapping should be made to determine the best targets before beginning a drilling program.

Respectfully submitted,

R.C. Heim, Ph.D., P. Eng.

J.D. Knayer
Geochemical Coordinator

July 31, 1969



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To accompany Geochemical Soil Survey Report by R.C. Heim, Ph.D., P.Eng. and J. Knauer on Mineral Claims JB 1-4, JB 7-10, Tom 3-10 and I.G. #1 Fraction. Kamloops Mining Division, B.C. Dated July 31, 1989.

R.C. Heim James D. Knauer

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1935 MAP #1

REVISED	DANSEY PROPERTY South Sheet
	SOIL SURVEY Ppm-Total Mo | Ppm-Total Cu
	PROJECT:
PROJ Nº	SURVEYED BY: DATE
NTS 92 I/10W	DRAWN BY SCALE 1" = 400'
DWG. Nº	NORANDA EXPLORATION CO. LTD.
	OFFICE VANCOUVER