

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO.

6374

GEOLOGICAL AND GEOCHEMICAL REPORT

KUTCHO 7 MINERAL CLAIM

58°12'N

128°31'W

1041/1W

BY:

George Sivertz

NORANDA EXPLORATION COMPANY, LIMITED

(NO PERSONAL LIABILITY)

LIARD MINING DIVISION

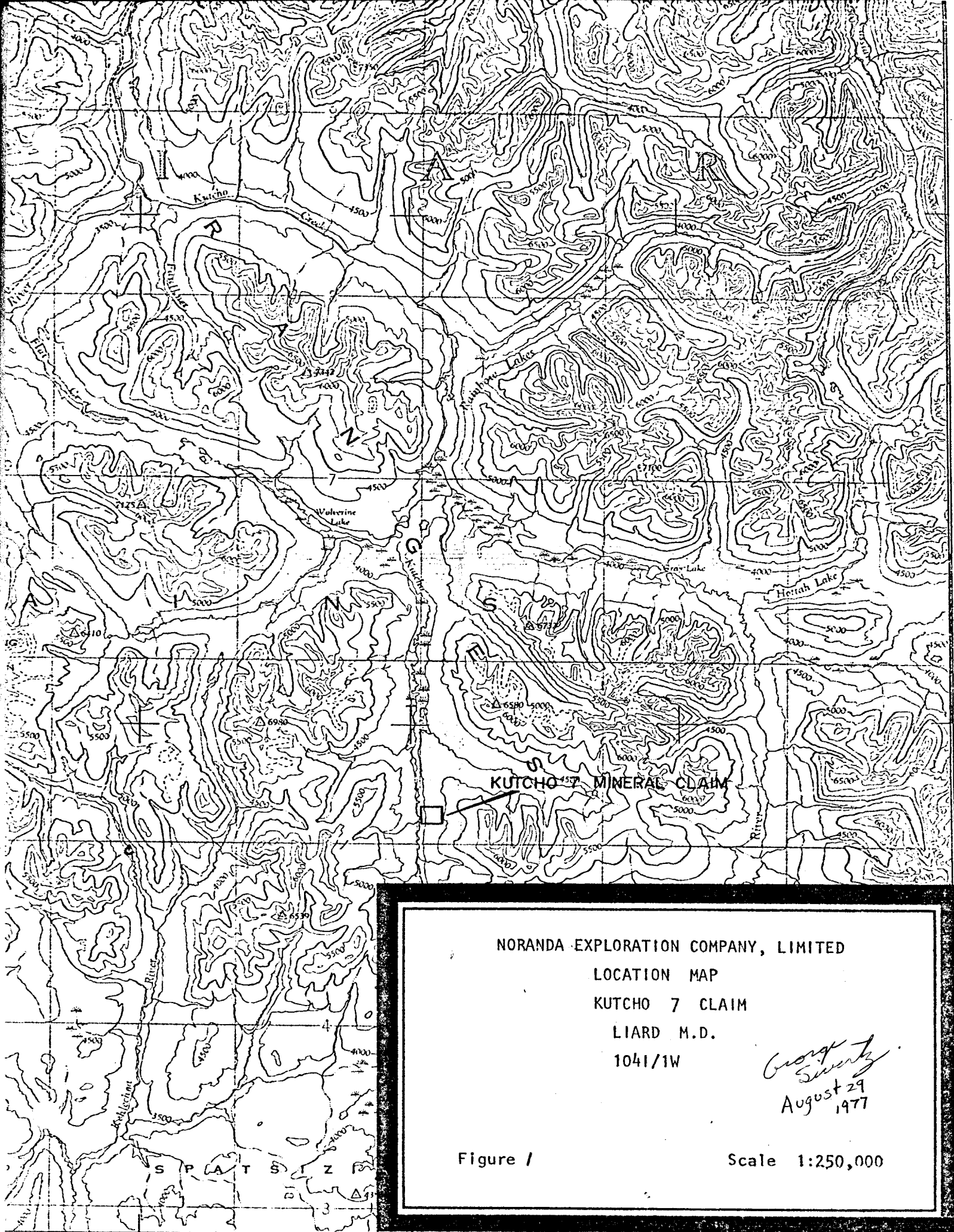
July 12, 1977

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FIGURES

- Figure 1: Location Map for Kutcho 7 Mineral Claim
- Figure 2: Geology and Silt Sample Locations, Kutch 7 Mineral Claim



NORANDA EXPLORATION COMPANY, LIMITED
 LOCATION MAP
 KUTCHO 7 CLAIM
 LIARD M.D.
 1041/1W

Greg Swartz
 August 29
 1977

Figure 1

Scale 1:250,000

A) INTRODUCTION

The Kutcho 7 Mineral Claim, consists of four units as follows:

<u>Claim</u>	<u>Units</u>	<u>Record Number</u>	<u>Record Date</u>	<u>Owner</u>
Kutcho 7	4	149	July 12, 1976	Noranda Exploration Company, Limited (No Personal Liability)

It is located approximately 100 kilometers east-southeast of the settlement of Dease Lake in northwest B.C. Access is gained by helicopter from Dease Lake. The Kutcho 7 mineral claim was examined by George Sivertz and Earl Sargent, both employed by Noranda, on June 12, 1977.

B) GENERAL GEOLOGY

Regionally, the area has been mapped by the G.S.C. (Map 29-1962, 1:250,000), and B.C. Department of Mines and Petroleum Resources Geologists have mapped the Kutcho Creek area on a more detailed scale (Panteleyev and Pearson, 1975 - 76; Pantaleyev 1977). These studies indicate that the area is underlain by a sequence of quartz-sericite and quartz-chlorite schists, conglomerate, limestone, and fine-grained phyllitic sediments. This sequence of rock is presently considered to be of Middle Triassic to possible early Jurassic age (Pantaleyev, personal communication, 1977). The origin of the quartz-sericite schists, which host massive stratabound copper-iron sulfide mineralization, remains an enigma.

C) SILT GEOCHEMISTRY

(i) Sampling Method

Silt samples were taken at random intervals from streams draining the claim. The silt was placed in "High Wet-Strength Kraft Envelopes" and shipped by air to Vancouver.

(ii) Laboratory Determination Method

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

To determine the amount of total extractable copper, molybdenum, lead and zinc in each sample, the following procedure is employed:

A small amount of the -80 mesh material, 0.200 grams, is digested in 2ml of HClO_4 and 0.5ml of HNO_3 for approximately four hours. Following digestion, each sample is diluted to 5ml with demineralized H_2O . A Varian Techtron Model AA-5 atomic absorption spectrometer is used to ascertain the content, in parts per million of each element.

(iii) Presentation of Results

Results of the geochemical survey are plotted on Figure 2.

Values in parts per million are listed on the map (Figure 2) in the following order: Cu, Zn, Pb, Mo and U.

(iv) Discussion of Results

No anomalous results were obtained from streams draining the Kutcho 7 mineral claim.

D) GEOLOGY OF THE KUTCHO 7 MINERAL CLAIM

A traverse was made across the Kutcho 7 Mineral Claim on June 12, 1977. The traverse was made from the north to the southern end of the claim, and thence west to Kutcho Creek.

The northern two units of the Kutcho 7 claim are underlain by shale, phyllite, and calcareous siltstone with calcite veins and common minor pyrite. Foliation of these rocks has a northwest strike and a steep northeasterly dip.

The southern two units are underlain partially by the fine sediments described above and partially by coarse quartz-sericite and quartz-chlorite schists, and a narrow unit of conglomerate that exhibits some agglomerate features. The coarse schists consist of 50 to 80% angular to subrounded quartz and feldspar fragments in a fine chlorite and quartz matrix. The very coarse-grained unit contains angular blocks of a porphyritic volcanic rock, as well as cobbles of various other lithologies. The cobbles and blocks are stretched parallel to the regional foliation.

No mineralization other than minor pyrite was seen in any of the units described on the Kutcho 7 claim.

E) RECOMMENDATIONS

It must be recognized that the area underlain by the favorable quartz-sericite rocks on the Kutcho 7 mineral claim is approximately 0.4 Km² in extent. Further work on the claim would be difficult to organize but should include at least more detailed geological mapping and prospecting. There is limited room for a geophysical survey but CEM and VLF-EM on short north-south lines may be geologically justifiable.

Further work might be done more expeditiously if the Kutcho 7 claim was abandoned and relocated as a contiguous part of a larger claim.

George Swinley
August 29
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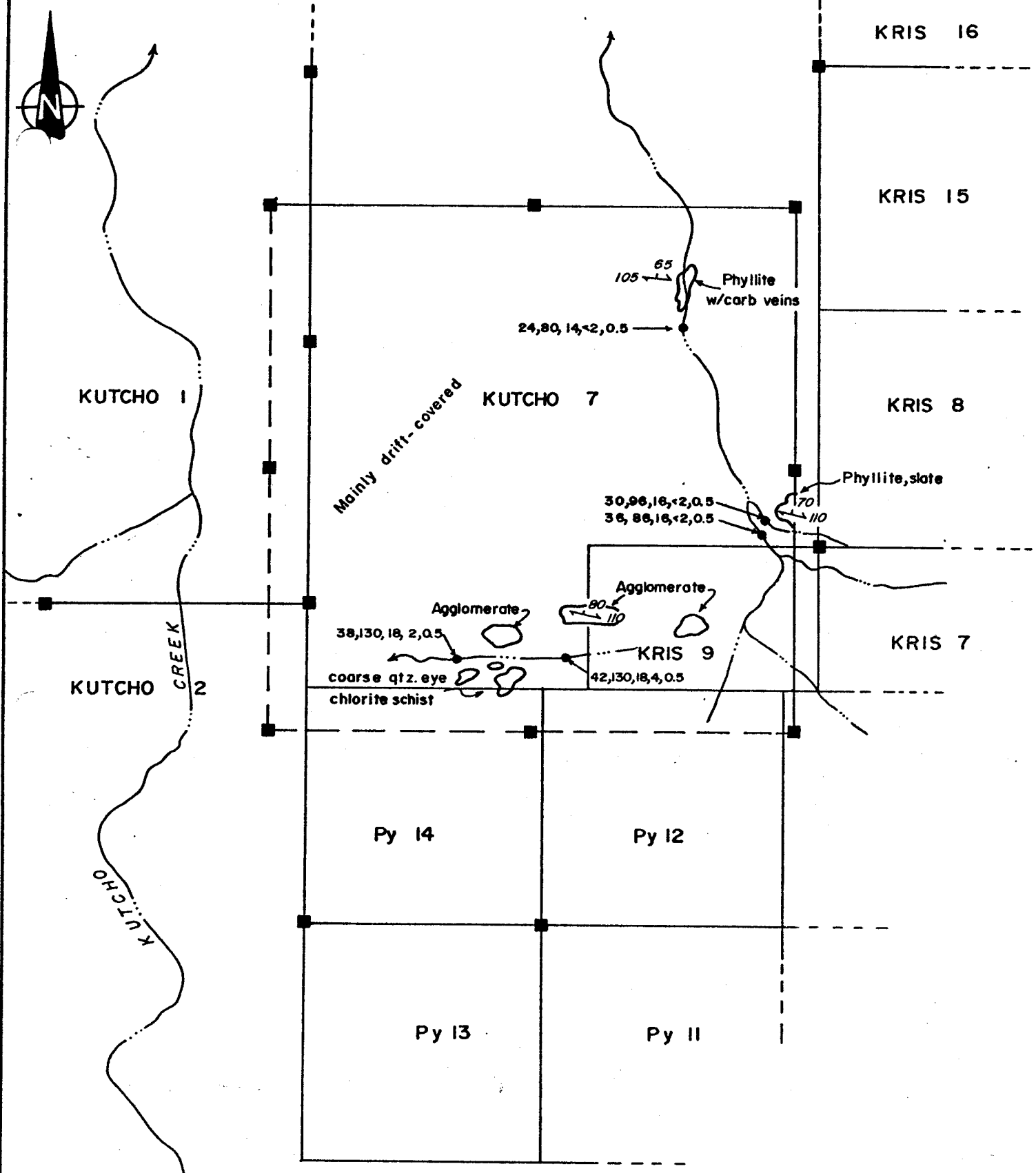


FIG. 2

GEOLOGY & SILT SAMPLE LOCATIONS
KUTCHO 7 MINERAL CLAIM

SILT METALS:
Cu, Zn, Pb, Mo, U

1:10,000



To accompany geological & geochemical report
on Kutcho 7 mineral claim - Liard M.D.

BY G. SIVERTZ

DATED: July 12, 1977

George Sivertz
August 29 1977

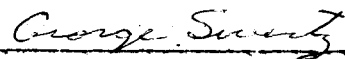
GEOLOGY BY: G. SIVERTZ

STATEMENT OF QUALIFICATIONS

I, George William Gustav Sivertz, of Vancouver, B.C. do certify that:

- 1) I have been an employee of Noranda Exploration Company, Limited for intermittent periods since May 21, 1975.
- 2) I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology (Honours).
- 3) I am a member of the Canadian Institute of Mining and Metallurgy.

August 12, 1977



George Sivertz
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

NORANDA EXPLORATION COMPANY, LIMITED
(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT:

<u>ELEMENT</u>	<u>NO. OF DETERMINATIONS</u>	<u>COST PER DETERMINATION</u>	<u>TOTAL</u>
Cu	5	1.00	5.00
Zn	5	.50	2.50
Pb	5	.50	2.50
Mo	5	.50	2.50
U	5	1.50	7.50

20.00

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT: KUTCHO No. 7

TYPE OF REPORT: Prospecting Report

- (a) Employees: E. Sargent, G. Sivertz
Number of days: 3
Dates worked: Between June 12 and July 12, 1977
- (b) Average cost per day \$ 53.41
Total cost \$53.41 X 3 \$ 160.23
- (c) Cost of food & accomodation \$ 55.86
- (d) Cost of transportation
- i. During work period
- type:
- cost:
- ii. To and from Claims from within B.C.
- cost: 20.31 20.31
- (e) Cost of aircraft
- i. Fixed wing:
- ii. Helicopter: 261.55 261.55
- (f) Cost of instruments
- i. Rental:
- ii. Supplies
- (g) Cost of geochem analysis (details attached): 20.00
- (h) Cost of report preparation: 150.00
- (i) Other:

TOTAL

667.95