GEOCHEMICAL ASSESSMENT REPORT

LETA CLAIMS

115-I-6

62°16'N 137°15'W

Noranda Exploration Company Limited
(No Personal Liability)

G. Macdonald

February 1980

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work to the amount of

$ 2,400.00

J a Morin

Registered Geologist or
Professional Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

TABLE OF CONTENTS

GEOCHEMICAL ASSESSMENT REPORT

on the

LETA CLAIMS

INTRODUCTION

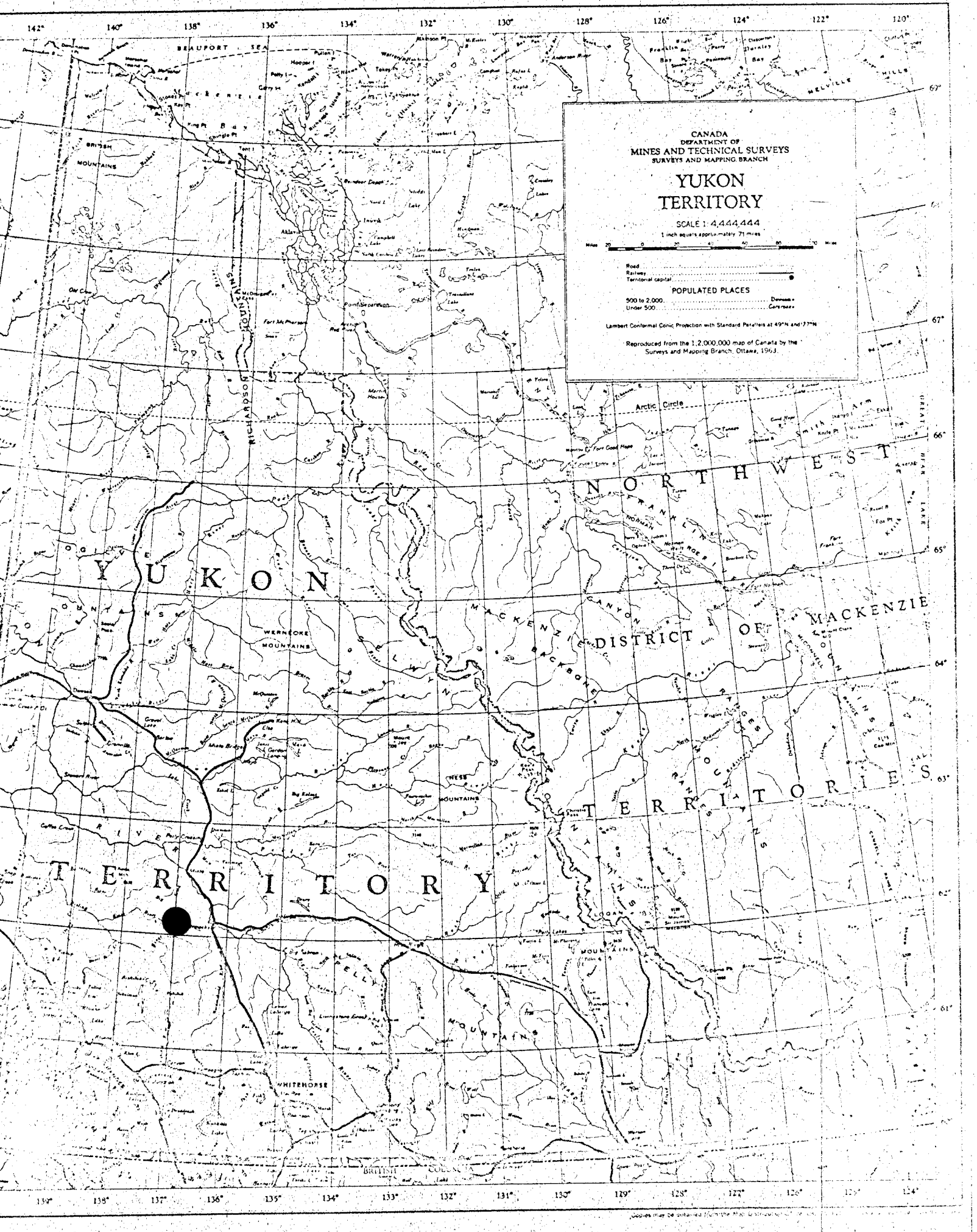
The claims referred to in this report are registered in the name of Noranda Exploration Company Limited (No Personal Liability) and comprise the following:

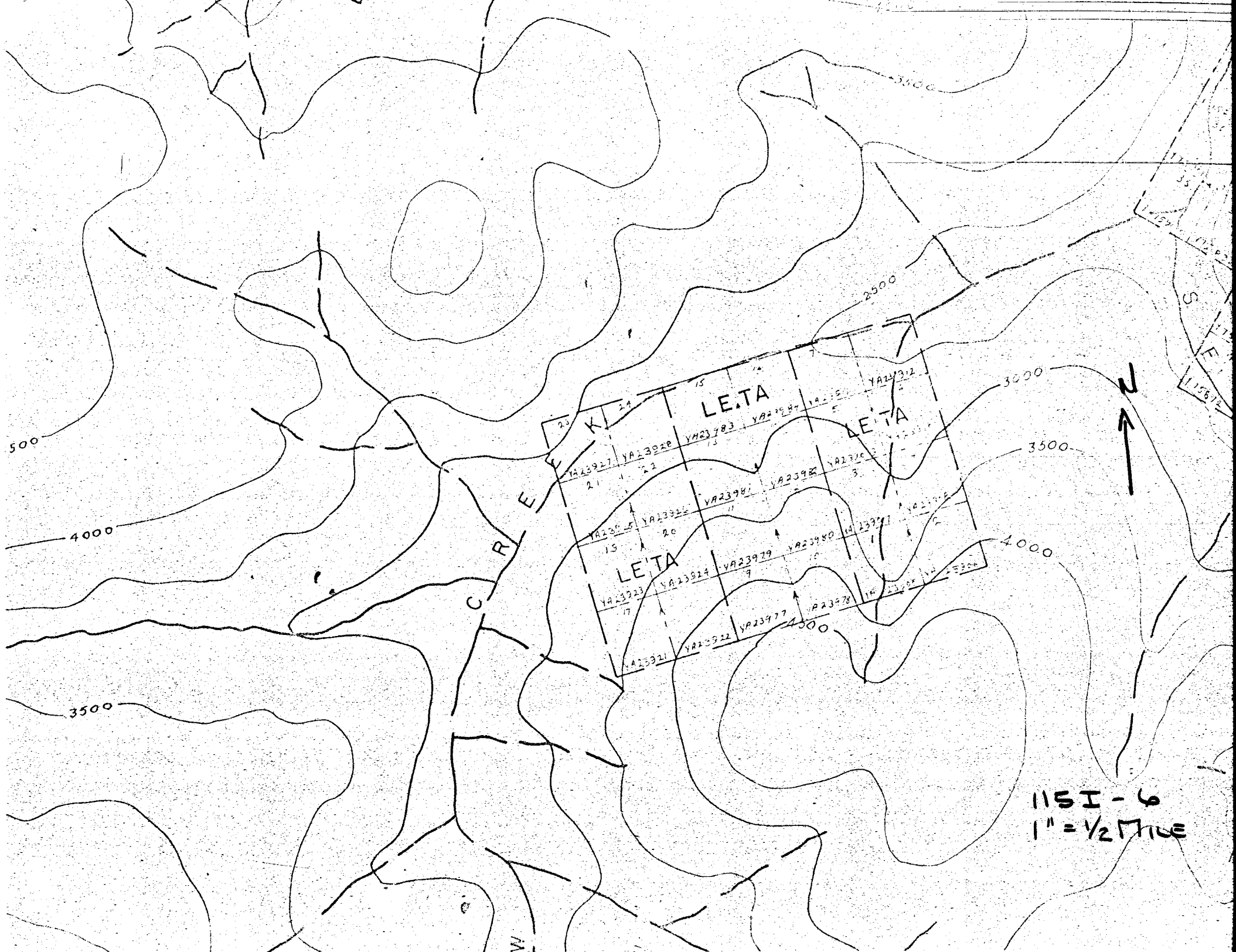
LETA 1-8	YA23905-12
LETA 9-16	YA23977-84
LETA 17-24	YA23921-28

The property is located 36 air miles west of Carmacks, Yukon Territory. Access in 1979 was by helicopter from Carmacks.

The property was grid soil sampled between June 15th and July 1st, 1979 by Consolidated Ventures of Whitehorse as contractor.

A total of seven days were spent on the property.


CANADA
DEPARTMENT OF
MINES AND TECHNICAL SURVEYS
SURVEYS AND MAPPING BRANCH
YUKON
TERRITORY
SCALE 1: 4,444,444
1 inch equals approximately 71 miles
Miles 20 0 20 40 60 80 100 Miles
Road
Railway
Territorial capital
POPULATED PLACES
500 to 2,000 Dawson
Under 500 Carmacks
Lambert Conformal Conic Projection with Standard Parallels at 49°N and 77°N
Reproduced from the 1:2,000,000 map of Canada by the Surveys and Mapping Branch, Ottawa, 1963
BEAUFORT SEA
MACKENZIE
BRITISH MOUNTAINS
RICHARDSON MOUNTAINS
Arctic Circle
NORTHWEST TERRITORIES
YUKON TERRITORY
DISTRICT OF MACKENZIE
MACKENZIE MOUNTAINS
WERNECKE MOUNTAINS
OGILVIE MOUNTAINS
SELWYN MOUNTAINS
PELLY MOUNTAINS
WHITEHORSE
BRITISH COLUMBIA
MELVILLE HILLS
142° 140° 138° 136° 134° 132° 130° 128° 126° 124° 122° 120°
69° 68° 67° 66° 65° 64° 63° 62° 61°
139° 138° 137° 136° 135° 134° 133° 132° 131° 130° 129° 128° 127° 126° 125° 124°


LE'TA
LE'TA
LE'TA
K
CREEK
2500
3000
3500
4000
4500
500
N
115I-6
1" = 1/2 Mile

GEOCHEMICAL SOIL SURVEY

All soil samples were analyzed for copper, molybdenum, tungsten, lead and zinc at the Whitehorse Assay Office in Whitehorse, Yukon.

Sampling Method

Samples were obtained by digging holes with a maddock to a depth, if feasible, where the visible B horizon or sub-outcrop was encountered. The B horizon was sampled whenever possible. The samples were placed in "Hi Wet Strength Kraft 3-1/2 x 6-1/8" Open End" envelopes and the grid station was marked on each envelope with indelible felt pen. Survey control was provided by a system of chained and picketed grid lines with 100 meter centres on section lines 200 meters apart.

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, lead, zinc, tungsten 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 4 hours. Following digestion, each sample is diluted to 5 ml with de-mineralized H_2O. A varian Techtron model AA-5 Atomic Absorption Spectrophotometer was used to determine the parts per million copper, lead, zinc, tungsten and molybdenum content in each sample.

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

Discussion of Results

Geochemical results are presented on plans with a scale of 1:10000 (in pocket).

The following values are considered anomalous:

(i)	Cu	30 ppm
(ii)	Mo	6 ppm
(iii)	W	5 ppm
(iv)	Zn	100 ppm
(v)	Pb	50 ppm

Two significant tungsten-copper anomalies were developed in the survey:

Anomaly No. 1: 66+00E - 72+00E from 54+00S to 50+00S
Anomaly No. 2: 58+00S - 54+00S from 58+00E to 64+00E

A small area centred around 50+00S/55+00E is also anomalous in copper and tungsten.

Molybdenum showed no definite pattern of geochemical dispersal but the few erratic anomalous values tend to be coincident with tungsten or copper anomalies.

Lead and zinc showed only background to threshold values with no discernible pattern.

CONCLUSIONS AND RECOMMENDATIONS

Copper-tungsten anomalies should be further delineated with some additional geochemical soil sampling and should be prospected to determine the significance of a weakly mineralized porphyry zone exposed near 55+00E/50+00S.

Submitted by:

G. Macdonald, Geologist.

A P P E N D I C E S

STATEMENT OF QUALIFICATIONS

I, GLEN MACDONALD, of the City of Whitehorse in the Yukon Territory, DO HEREBY CERTIFY that:

1. I have been employed as a Geologist by Noranda Exploration Company Limited (No Personal Liability) since May 1976.

2. I am a graduate of the University of British Columbia, with a Bachelor of Science degree in Geology.

3. I am a member of the Canadian Institute of Mining and Metallurgy.

G. Macdonald, Geologist,
Noranda Exploration Company Limited
(N.P.L.)

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT Leta Claims DATE January 1980

TYPE OF REPORT Geochem

a) Wages:

No. of Days

Rate per Day $

Dates: from to

Total Wages x $

b) Food and Accomodation:

No of days

Rate per day $

Dates: from to

Total Cost x $

c) Transportation:

No of days

Rate per day $

Dates: from to

Total Cost X $

d) Instrument Rental:

Type of Instrument

No of days

Rate per day $

Dates: from to

Total Cost X $

Type of Instrument

No of days

Rate per day $

Dates: from to

Total Cost X $

f) Analysis
(See attached schedule) 983.60

g) Cost of preparation of Report

Author	150.00	
Drafting	75.00	
Typing	75.00	300.00

h) Other:

Consolidated Ventures Contract		
Geochem	429.50	
Line Preparation	3,683.15	
Supervision: G.E. Dirom P. Eng.	200.00	
		4,312.65
Total Cost		5,596.25

e) Unit costs for Geochem
No of days
No of units 207 Samples
Unit costs $8.03429 / Sample
Total Cost $8.03429 x 207 1,663.10

Unit Costs for Line Preparation

No. of Units	28.4 km	
Unit Costs	$138.4911 / km	
Total Cost	$138.4911 X 28.4	3,933.15
		5,596.25

The exploration cost of $5,596.25 is certified correct.

W.W. Young
Accountant

NORANDA EXPLORATION COMPANY, LIMITED

(WESTERN DIVISION)

DETAILS OF ANALYSES COSTS

PROJECT: Leta Claims January 1980

ELEMENT	NO. OF DETERMINATIONS	COST PER DETERMINATION	TOTAL
Cu	207	1.00	207.00
Zn		.60	124.20
Pb		.60	124.20
Mo		.60	124.20
W	202	2.00	404.00

$983.60

40+00E | 42+00E | 44+00E | 46+00E | 48+00E | 50+00E | 52+00E | 54+00E | 56+00E | 58+00E | 60+00E | 62+00E | 64+00E | 66+00E | 68+00E | 70+00E | 72+00E | 74+00E

PROPERTY BOUNDARY

50+00 S

52+00 S

54+00 S

56+00 S

58+00 S

60+00 S

62+00 S

64+00 S

66+00 S

12 = Cu
42 = Mo
0 = W

J. Mandsnaed

400 200 0 200 400 600 800 1000
METERS

REVISED

BOW CREEK PROPERTY

GEOCHEMICAL SOIL SURVEY

CU, Mo, W IN P.P.M.

PROJ. No. 1557-6
N.T.S. ~~105F/16~~
DWG. No.

SURVEY BY: G.M. DATE: FEB. 1980
DRAWN BY: G.R.S. SCALE: 1:10,000

NORANDA EXPLORATION

OFFICE: WHITEHORSE

VANCAL

40-00 E | 42-00 E | 44-00 E | 46-00 E | 48-00 E | 50-00 E | 52-00 E | 54-00 E | 56-00 E | 58-00 E | 60-00 E | 62-00 E | 64-00 E | 66-00 E | 68-00 E | 70-00 E | 72-00 E | 74-00 E

PROPERTY BOUNDARY

50+00 S
52+00 S
54+00 S
56+00 S
58+00 S
60+00 S
62+00 S
64+00 S
66+00 S

28 = Zn
12 = Pb

400 200 0 200 400 600 800 1000
METERS

REVISED

BOW CREEK PROPERTY

GEOCHEMICAL SOIL SURVEY

Zn, Pb IN P.P.M.

PROJ. No. ~~105716~~ 1576
N.T.S. ~~105F/16~~
DWG. No.

SURVEY BY: G.M. DATE: FEB. 1980
DRAWN BY: G.R.S. SCALE: 1:10,000

NORANDA EXPLORATION

OFFICE: WHITEHORSE

VANCAL