



GEOLOGICAL ASSESSMENT REPORT

STAR 9-16 CLAIMS

NTS 95-D-11

60°30'N - 127°24'W

NORANDA EXPLORATION COMPANY LIMITED (NPL)

October 1-12, 1981

R. S. Rogers, M.Sc.

090918

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representative work in the amount  
of \$ 2,400 -

*P. Walker*

*for* Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.



**DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT**  
**YUKON QUARTZ MINING ACT**  
**FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK**



(This form required in duplicate with sketch showing location of work.)

I (Name) <u>RANDALL S. ROGERS</u>	Occupation <u>GEOLOGIST</u>
(Postal Address) <u>203 - 107 Main Street, Whitehorse, Yukon Territory</u>	

OFFICE DATE STAMP

**MAKE OATH AND SAY, THAT:**

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

YA 57195 - 202      STAR 9-16

situated at CAMP CREEK Claim Sheet No. 95 D/11  
 in the WATSON LAKE Mining District, to the value of at least 2400  
 dollars, since the 3rd day of November 19 80,

to represent the following mineral claims under the authority of Grouping Certificate No. 3081

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 57195 - 202      STAR 9-16      03 November 81 - 03 November 84

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

Linecutting, geological reconnaissance, prospecting  
 October 1 to October 12, 1981 by  
 R.S. Rogers, G.J. Tofflemire, M. Cashin and M.A. Rogers  
 of Noranda Exploration Co., Ltd. (N.P.L.)

REPORT TO FOLLOW

Sworn before me at Whitehorse, Y.T.  
 this 3rd day of November 1981.

Mary E. Fittson  
 Notary Public

R.S. Rogers  
 Applicant

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## INTRODUCTION

The claims referred to in this report are registered in the name of NORANDA EXPLORATION COMPANY, LIMITED (No Personal Liability). The property is located at the headwaters of Camp Creek, 54 air miles northeast of Watson Lake, Yukon Territory, in the Watson Lake Mining District (Figure 1). Access to the property is by helicopter from Watson Lake.

An area of geochemical interest at Camp Creek was first examined with general reconnaissance by Noranda Exploration Company, Limited (NPL) in 1975. In 1977 the anomalous zone was further evaluated with preliminary soil sampling and prospecting. Minor zinc values were reported in soils and organic material.

The 1981 program at Camp Creek (STAR claims) comprised: establishment of a permanent camp, line-cutting and geological reconnaissance by R. S. Rogers, G. J. Tofflemire, M. Cashin and M. A. Rogers of Noranda Exploration Company, Limited (NPL), 203-107 Main Street, Whitehorse, Yukon Territory.

The property includes the STAR 9-16 claims (YA57195-YA57202). The STAR 1-8 claims (YA67377-YA67384) were added in 1981 (Figure 2).

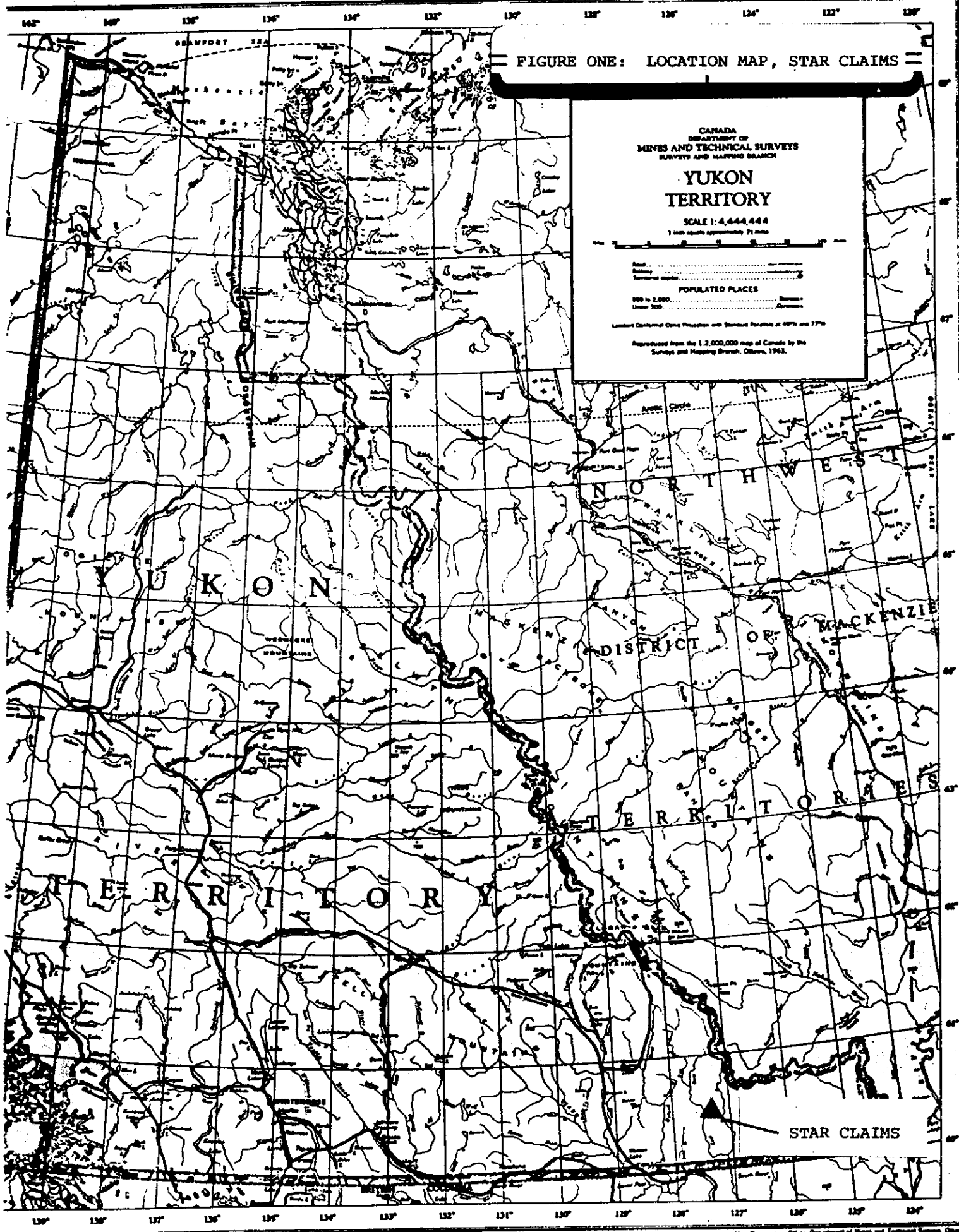


FIGURE ONE: LOCATION MAP, STAR CLAIMS

CANADA  
DEPARTMENT OF  
MINES AND TECHNICAL SURVEYS  
SURVEYS AND MAPPING BRANCH

**YUKON  
TERRITORY**

SCALE 1:4,444,444  
1 inch equals approximately 71 miles



Map  
Boundary  
Territorial divide

**POPULATED PLACES**

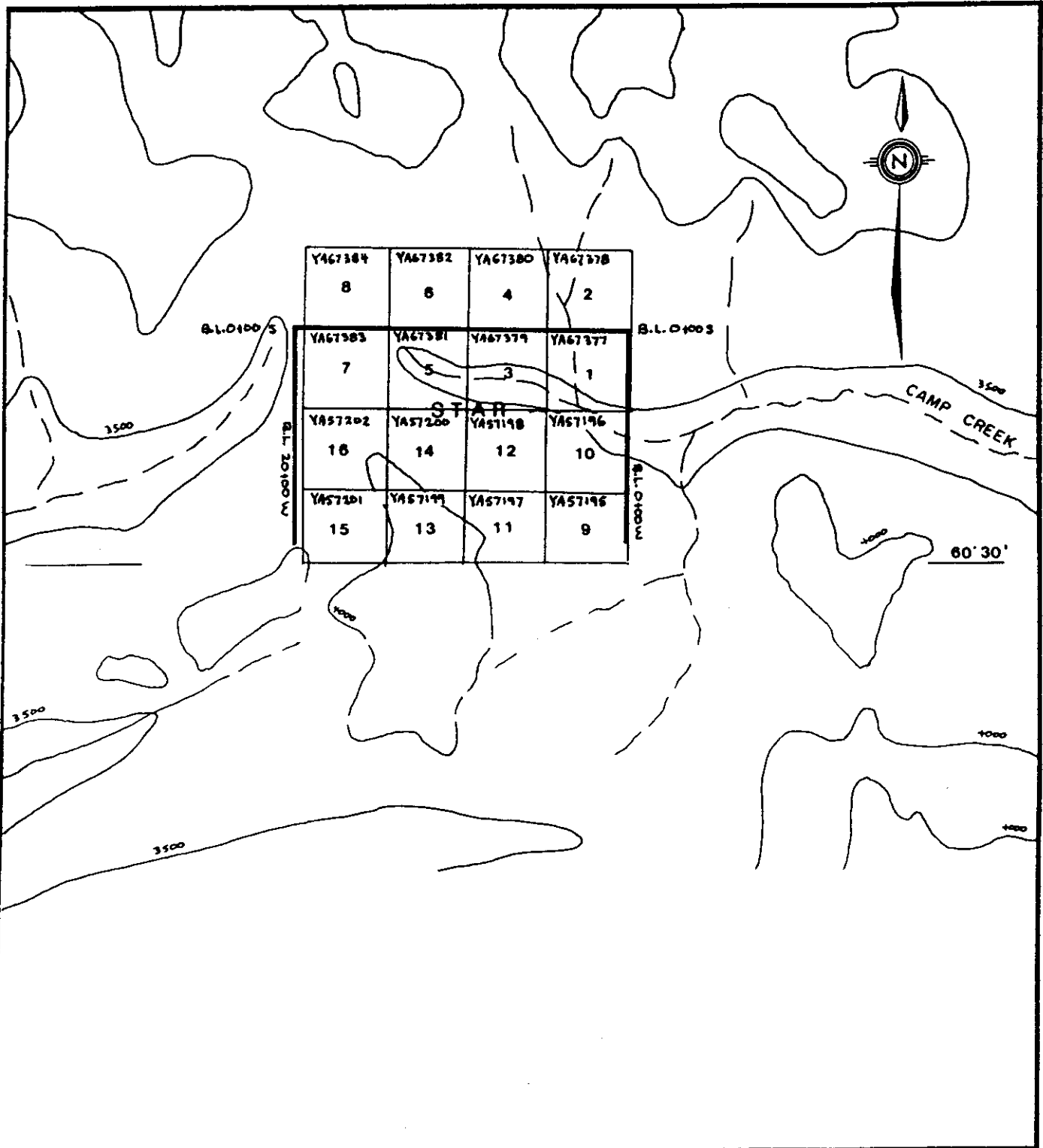
100 to 2,000  
Under 100

Latest Contoured Clinic Projection with Standard Parallels at 49°N and 77°N

Reproduced from the 1:2,000,000 map of Canada by the  
Survey and Mapping Branch, Ottawa, 1963.

STAR CLAIMS

Canes may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa



<h1>STAR CLAIMS</h1>		
SCALE: 1:25,000	<h2>CLAIM MAP AND GRID</h2>	DRAWN BY RSR
DATE: 5 DEC 81		REVISED
<h3>NORANDA EXPLORATION COMPANY, LTD. (NPL)</h3>		
95D/11		DRAWING NUMBER 2

## LINE-CUTTING

A grid system was established on the property in 1981 to facilitate further exploration (Figure 2). The location line of the STAR 1-8 claims was adopted as baseline 0+00 S for the property grid. This line was cut with axe and power saw to minimum three-foot width from 0+00 W to 20+00 W with baseline stations chained to 100-metre intervals. The No. 1 Post of the STAR 1 claim was designated 0+00 S, 0+00 W. Two thousand metres of baseline were prepared.

Grid lines 0+00 W and 20+00 W were chained from 0+00 S to 14+00 S, cut so as to allow unimpeded travel. Twenty-eight hundred metres of grid line were cut in 1981.

A severe snow storm from October 8 to October 11 curtailed any further line-cutting.

## GEOLOGICAL RECONNAISSANCE

Geological investigation in 1981 was severely inhibited by weather and was restricted to preliminary investigation of such outcrops as could be located under the snow cover.

### TABLE OF FORMATIONS

Ordovician-Silurian (9)	SUNBLOOD FORMATION	- dark and light grey dolomite and orange mottled limestone and limy siltstone
Lower Cambrian (5)		- dense black fine-grained limestone and silty limestone
Lower Cambrian (4b)		- vari-coloured quartzitic sandstone, silty dolomite and bioclastic limestone

(Table 1)

Unit 4b Lower Cambrian vari-coloured quartzitic sandstone, silty dolomite and bioclastic limestones outcrop to the north and east of the grid and comprise a sequence striking generally northwest with westerly dip of 30°.

These sediments are apparently in faulted contact with Unit 5 Lower Cambrian black limestone and silty limestone, also restricted to the area north of Camp Creek. Dolomite, limestone and limy siltstone of the Ordovician-Silurian Sunblood Formation outcrop south of Camp Creek and, in places, overlie the Lower Cambrian strata.

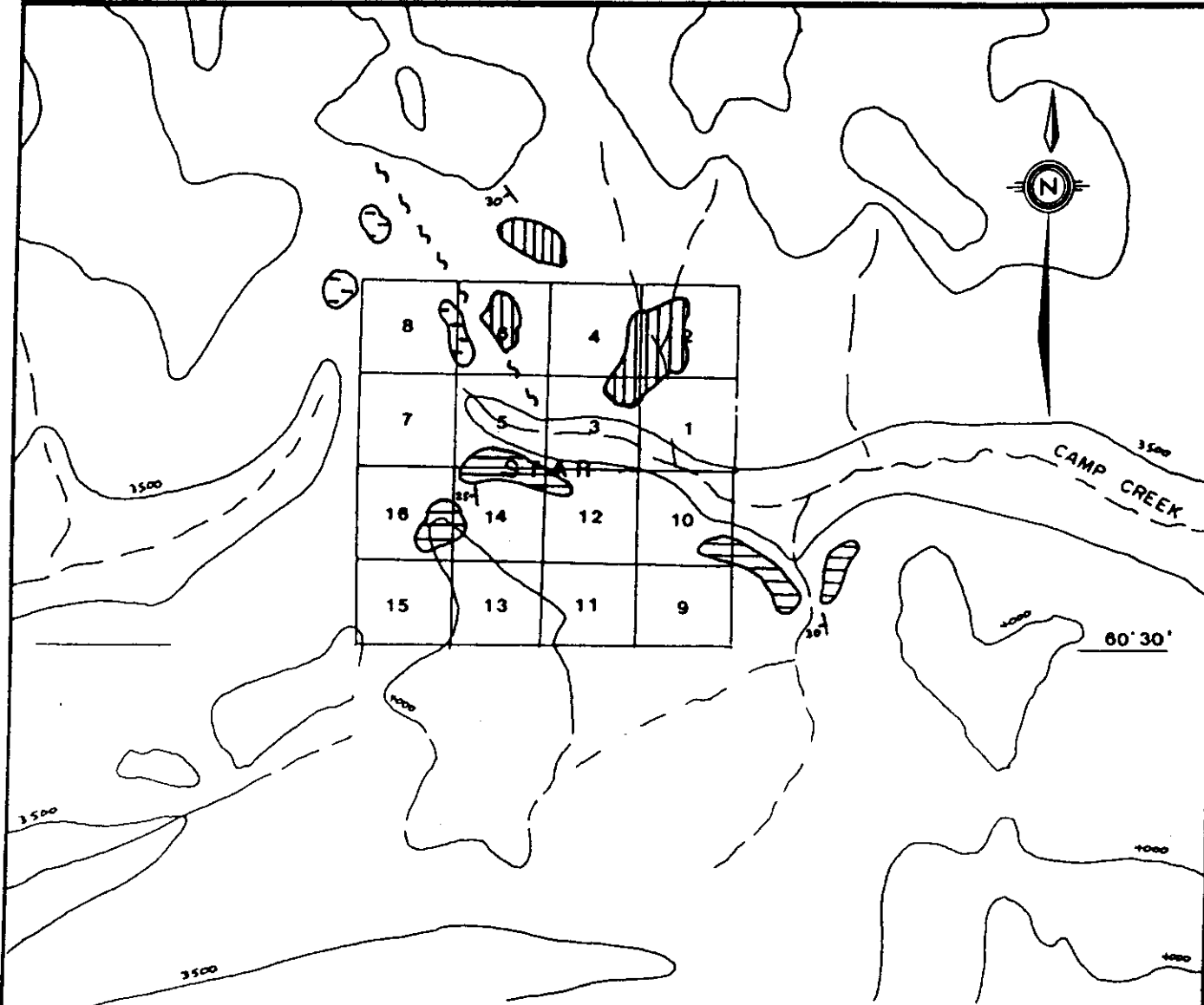
No in situ mineralization was found in this reconnaissance. It was noted that anomalous geochemical sample sites from the 1977 survey occurred primarily along the broad swamp which forms the headwaters of Camp Creek, and likely reflect radical pH changes as groundwater percolates into the stagnant swamps.

A VLF-EM survey was planned for 1981, but severe weather prohibited the safe operation of such a survey and it was terminated at an early stage.

## CONCLUSIONS AND RECOMMENDATIONS

The geochemical anomaly in zinc at Camp Creek has not yet been adequately explored.

Exploration for the 1982 season should include a VLF-EM survey, detailed soil sampling on anomalies, and prospecting. Ideally, the program should be completed before snow covers the ground.



ORDOVICIAN-SILURIAN



SUNBLOOD FORMATION : dark and light grey dolomite, orange mottled limestone and limy siltstone.

LOWER CAMBRIAN



dense black fine-grained limestone and silty limestone.

LOWER CAMBRIAN



varicoloured quartzitic sandstone, silty dolomite and bioclastic limestone.


# STAR CLAIMS

SCALE: 1:25,000	GEOLOGY	DRAWN BY RSR
DATE: 5 DEC 81		REVISED
NORANDA EXPLORATION COMPANY, LTD. (NPL)		
95D/11		DRAWING NUMBER 3

STATEMENT OF QUALIFICATIONS

I, Randall Stewart Rogers, 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 January, 1980;
2. I am a graduate of the University of British Columbia with the degree of Bachelor of Science (Honours) in Geology;
3. I am a graduate of Queen's University at Kingston, Ontario with the degree of Master of Science in Mineral Exploration;
4. I am a Notary Public in and for the Yukon Territory;
5. I am a member of the Canadian Institute of Mining and Metallurgy;
6. I am a member of the Geological Association of Canada.

  
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Randall Stewart Rogers - Geologist  
Noranda Exploration Co., Ltd. (NPL)

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT PELLY ANVIL

DATE NOVEMBER 30, 1981

TYPE OF REPORT GEOLOGY & GEOPHYSICS

a) Wages:

No. of Days	28	
Rate per Day \$	108.5875	
Dates From:	Jan 1, 1981 - October 31, 1981	
Total Wages	28 x \$ 108.5875	3,040.45

b) Food and Accomodation:

No of days	28	
Rate per day \$	31.0382	
Dates From:	Jan 1, 1981 - Oct. 31, 1981	
Total Cost	28 x \$ 31.0382	869.07

c) Transportation:

No of days	28	
Rate per day \$	165.4946	
Dates From:	Jan 1, 1981 - Oct. 31, 1981	
Total Cost	28 X \$ 165.4946	4,633.85

d) Instrument Rental:

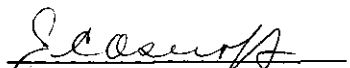
Type of Instrument		
No of days		
Rate per day \$		
Dates From:		
Total Cost	X \$	

Type of Instrument		
No of days		
Rate per day \$		
Dates From:		
Total Cost	X \$	

f) Analysis (See attached schedule)	
g) Cost of preparation of Report	
Author	108.59
Drafting	108.59
Typing	108.59
h) Other:	
Camp & Field Supplies	<u>102.00</u>

Total Cost	<u>\$8,645.37</u>
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I Certify these costs  
to be Correct

  
J.E. Oscroft  
Br. Accountant