NORCEN ENERGY RESOURCES LIMITED #1095 GEOCHEMICAL REPORT ON THE GJ CLAIM KINASKAN LAKE AREA, BRITISH COLUMBIA N.T.S. 104-G-9 111 5 MINERAL RESOURCES BRANCH ASSESSMENT REPORT Liard Mining Division Latitude: 57 degrees, 39 minutes N. 1.000-50 Longitude: 130 degrees, 14 minutes We

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C. Q. Winter val D. R. Good de M. D. McInnis November, 1976

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PLATE I:

COPPER GEOCHEMISTRY - Average Sample Depth 8" - 10" (I inch to 200 feet)

A. PREFACE

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Work for which assessment credit is requested was conducted on the CJ property between July 1, 1976 and July 30, 1976.

This report details the geochemical sampling which was carried out on the GJ mineral claim between July 1, 1976 and July 30, 1976.

As a result of the work performed, assessment credit is requested on the CJ claim as follows:

CLAIM	RECORD NUMBER	NUMBER OF UNITS	ASSESSMENT CREDIT REQUESTED	TOTAL
CJ	65(10)	12	3 years per unit	36 years.

The total value of the requested assessment credit and the total cost of the performed work is as follows:

	ASSESSMENT		COST OF
CLAIM	CREDIT REQUESTED	REQUIRED EXPENDITURE	PERFORMED WORK
CJ	36 years	\$4,800.00	\$5,130.72

This report, with the accompanying location plan, geochemical map, and statement of expenditures, is hereby submitted to record the above assessment credit.

B. INTRODUCTION

The GJ claim is located on the southern end of the Klastline Plateau, in the Liard Mining Division, approximately three and one half miles west of Kinaskan Lake, at 57 degrees, 39 minutes N. latitude and 130 degrees, 14 minutes W. longitude (Figure I).

Previous work on the property by other companies included geological mapping, limited geochemical and geophysical surveys, and the drilling of numerous diamond drill holes. This work indicated that the property is underlain geologically by a sequence of volcanic and sedimentary rocks which were later intruded by an irregular, dioritic intrusion. Diamond drilling at a showing in Groat Creek, which runs north-south through the claim, indicated that copper mineralization extended subsurface in a quartz stockwork, with economic grades occurring through significant intersections. Within the period of July 1, 1976 to July 30, 1976, a total of eighteen man days were spent geochemically sampling the GJ property, in an attempt to locate areas of the property where further mineralization might occur. The soil samples were taken at an average depth of eight to ten inches. In places, where the snow had just recently melted, the ground was frozen and samples were obtained to a depth of two inches. Other small areas of the property were not sampled due to snow cover.

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Access to the CJ property was achieved by helicopter from the Okanagan Helicopter base at Tatogga Lake Resort, some ten miles to the northeast, with an average return flying time of approximately 0.3 hours.

C. GEOCHEMICAL SURVEY

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Existence of significant copper mineralization at the showing in Groat Creek and limited geochemical results obtained by earlier workers led to the conclusion that more extensive geochemical surveying should be carried out on the property. A picketed two hundred foot grid was emplaced over the area. The base line of this grid extended due east across the property from 0 + 00 E to 54 + 00 E. From the base line, northings were extended to 14 + 00 N and southings to 14 + 00 S, to make a grid 5,400 feet east-west and 2,800 feet north-south. To the south of this grid, samples were taken at two hundred foot intervals on four hundred foot lines to 36 + 00 S. These lines were flagged and picketed where necessary.

Samples were collected by geologists Colin Winter and Doug Good, placed in kraft sample bags, and labelled with the appropriate grid coordinates. The samples were shipped to Chemex Labs Ltd. in Vancouver for analysis of total copper.

Chemex Labs. Ltd. used the following procedure to analyse the soil samples for copper:

I. Samples were sorted, recorded, and dried at 60 degrees centigrade.

- 2. Dried samples were sieved to minus 80 mesh fraction with a nylon and stainless steel sieve.
- 3. 0.5 grams of minus 80 mesh sample fraction was weighed into a test tube and digested with hot 70% perchloric and concentrated nitric acid. Samples were digested until all organic material was oxidized (approximately four hours).
- 4. Digested samples were diluted to 25 ml volume with demineralized water and mixed thoroughly. Solutions were settled until clear.
- 5. Copper was analysed in aqueous solution with Techtron A-A-6 Atomic Absorption Unit.

The Chemex Labs Ltd. "Certificates of Analyses" are included in Appendix 1.

The soil geochemical data from the GJ property was grouped into families and plotted as a probability log distribution (Figure 2). From this it can be seen that approximately I20 ppm copper is anomalous.

Examination of the sample results indicated that much of the property is covered with transported overburden, as evidenced by very low values over parts of the plateau. Despite this problem, the survey outlined a copper anomaly to the north and east of the main showing in Groat Creek. Interesting values extended to the northwest corner of the main grid but ended abruptly on the plateau where overburden problems were encountered. To the east of the showing, good geochemical values extend as far as 34 E on the south slope of the plateau. Occasional good values were obtained on the plateau where overburden thickness is at a minimum. The soil samples collected to the south of the main grid generally gave low values. The geochemistry results are presented on Plate I.

The survey indicated that the overburden is primarily a clay till with rounded and/or angular fragments of various lithologies. In the northeast corner of the survey grid, occurred a red-brown, well-sorted glacio-fluvial sand which completely masked reliable geochemical results. The sand gradually diminished to the south and west.

D. CONCLUSIONS

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Despite the transported overburden problem, a broad copper anomaly was found to exist to the north and east of the main showing in Groat Creek. This anomaly appears to be restricted in the northwest corner and on the plateau to the east by the overburden.

E. RECOMMENDATIONS

I. In order to determine the nature and extent of the glacial overburden on the plateau, the services of a geochemical consultant should be obtained.

2. Upon his conclusions and recommendations, further deeper sampling techniques should be employed to penetrate the overburden to reliable, residual soils.

FIGURE I

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GJ CLAIM LOCATION MAP 1: 50,000

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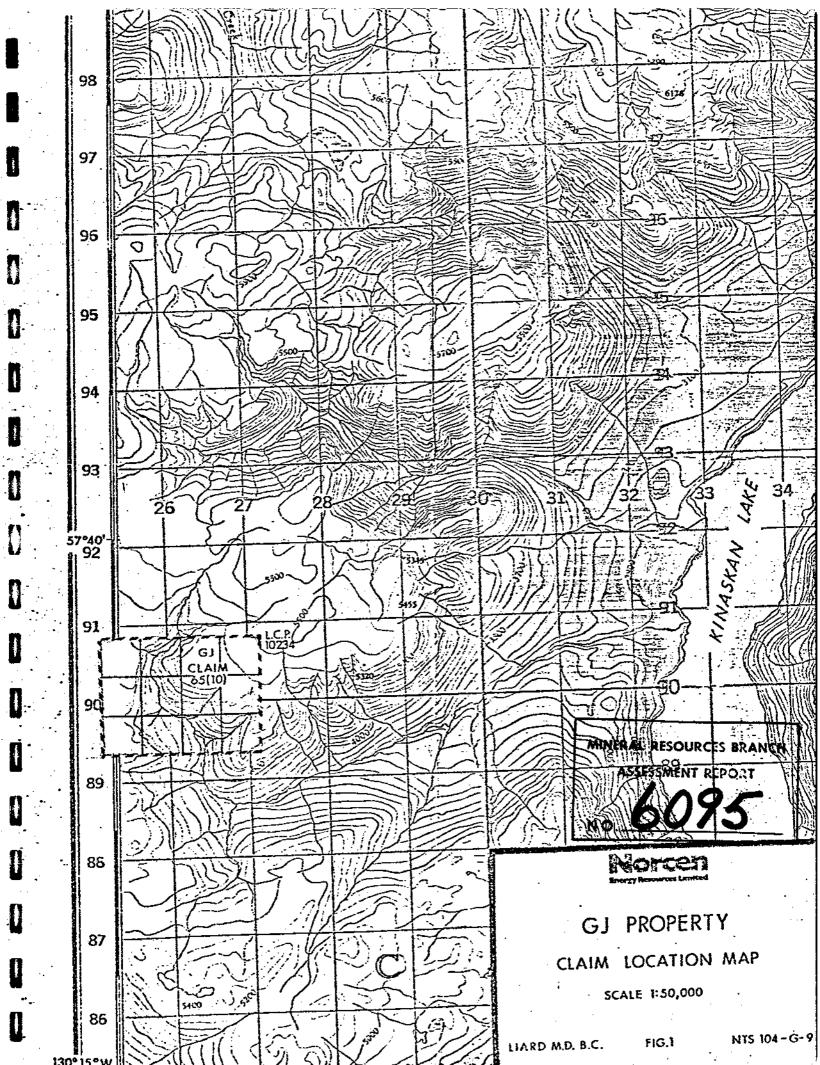


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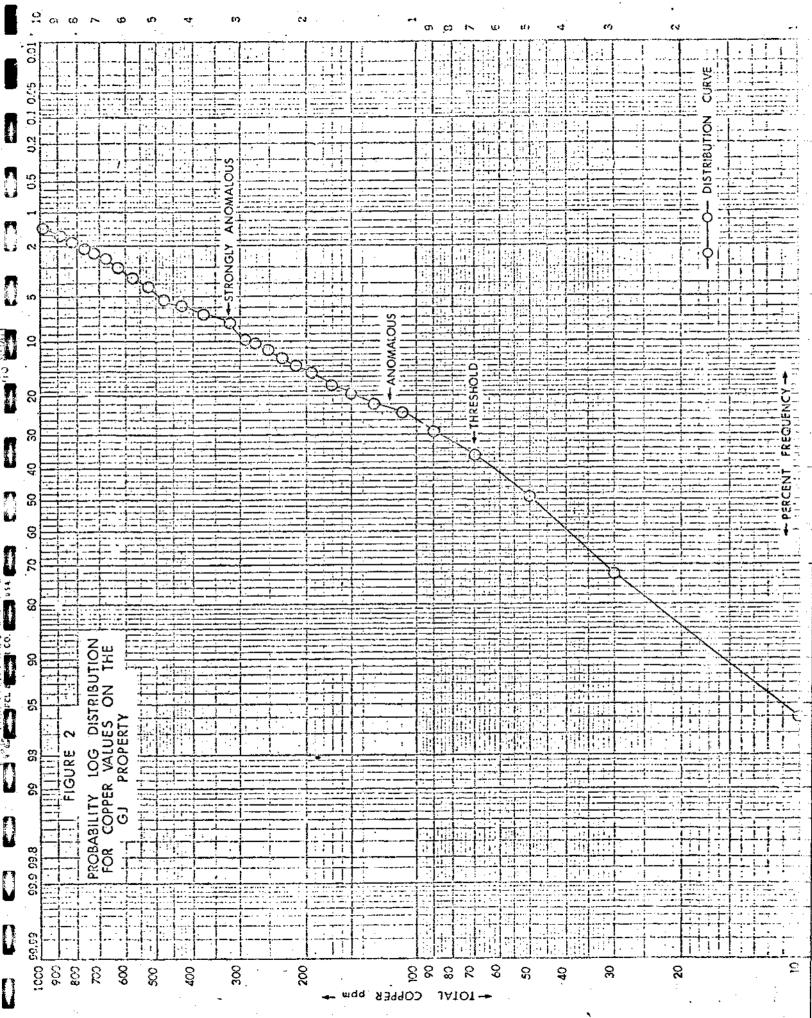
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PROBABILITY LOG DISTRIBUTION FOR COPPER VALUES ON THE GJ PROPERTY



APPENDIX I

CERTIFICATES OF ANALYSES

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CERTIFICATE OF ANALYSIS CERTIFICATE NO. 37597 Norcen Energy Resources TO: INVOICE NO. 17337 Mineral Exploration July 19/76 1715 5th Ave., S. W. RECEIVED GJ Calgary, Alta. July 20/76 ANALYSED ATTN: cc: C.Q.Winter PPM SAMPLE NO. : Copper 56 6+00E 25 40 4S 58 **6**S 76 8S 70 10S 100 12S 6+00E14S 33 880 8+00E 2S 1080 4S60 **6**S 85 40 134 10S 88 12S 26 8+00E 14S 1000 10+00E 4S 1380 6S 8S 840 442 10S 323 12S 148 10+00E 14S 620 14+00E 6N 120 8+50N 146 10N 183 12N 96 14+00E 14N 361 16+00E 6N 232 8N295 10N 58 1.2N 30 16+00E 14N 18+00E 6N 840 191 **8**N 120 10N 183 128 286 18+00E 14N 12420+00E 8% 270 1GN 228 12N 100 20+00E 14N 104 Std. .Q.Q. ста MEMBER CERTIFIED BY: ..... CANADIAN TESTING

### APPENDIX 3

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### STATEMENT OF QUALIFICATIONS

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### STATEMENT OF QUALIFICATIONS

I, Michael D. McInnis, with residence at 6550 Silver Springs Way, N.W. in the city of Calgary, Alberta, declare

- 1. that I graduated from the University of British Columbia in 1969 with an Honours B.Sc., in geology,
- 2. that since graduation I have been employed as an exploration geologist in British Columbia, Yukon and the Arctic Islands,
- 3. that I am presently Exploration Supervisor, Base Metals for Great Plains Development Company of Canada, Ltd.,
- 4. that I have successfully passed the exams necessary for entrance into the Professional Engineers Society of British Columbia and hold a non-residence licence granted by that society.

Michael D. McInm November,

#### STATEMENT OF QUALIFICATIONS

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I, Colin Q. Winter, of 2891 W 29 Avenue, Vancouver, British Columbia do declare that:

- I graduated in 1972 from St. Peter's College of the University of Oxford with an Honours B.A. in geology.
- 2. From September, 1972 until the Spring of 1973 I attended the Graduate School of the Faculty of Geology at Calgary University. Course work there included two ore deposits courses and work towards an Economic Geology Master's Degree.
- 3. During the summers of 1970 and 1971 I was employed as an exploration geologist in Morocco and in Australia respectively.
- 4. After graduation I was employed with Union Oil of Canada Ltd., for fifteen months as an Arctic exploration geologist.
- 5. I was employed during the summer of 1975 and 1976 as a field exploration geologist for Great Plains Development Company of Canada, Ltd.

Colin Q. Winter November, 1976

### STATEMENT OF QUALIFICATIONS

I, Douglas R. Good, of 262 Silver Hill Crescent, N.W., in the city of Calgary, Alberta, declare

- I. that I graduated from the University of Alberta in 1976 with a Bachelor of Science degree majoring in Geology,
  - that I have had three years of summer field experience in mineral exploration, two of which were in the British Columbia Cordilleran,
- 3.

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that I am presently employed by Norcen Energy Resources Limited as a geologist.

Douglas R. Good Dougfood November, 1976

### APPENDIX 2

## STATEMENT OF EXPENDITURES

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## STATEMENT OF EXPENDITURES

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GEOCHEMISTS

· REGISTERED ASSAYERS

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. ANALYTICAL CHEMISTS

GEOCHEMISTS

. REGISTERED ASSAYERS

# CERTIFICATE OF ANALYSIS

Norcen Energy Resources,

Mineral Ecpl.,

1715 - 5th Ave. S.W., Calgary, Alberta

	CERTIFICATE NO.	37942
·	INVOICE NO.	- 17589
•	RECEIVED	Aug. 3/76
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MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY:



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# CHEMEX LABS LTD.

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ANALYTICAL CHEMISTS • GEOCHEMISTS

REGISTERED ASSAYERS

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