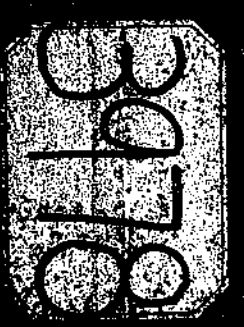
GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

GEOCHEMICAL REPORT
ON THE TARA GROUP
BALL CREEK - ISKUT RIVER AREA

N.T.S.: 104G/E 104G/8W

October 1972

M. D. McInnis



3978

GEOCHEMICAL REPORT

ON THE TARA GROUP

BALL CREEK - ISKUT RIVER AREA

130°25'N, 57°17'W

LIARD MINING DIVISION

N.T.S.: 104G/E

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

M. D. McInnis

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The Tara claim group comprises the following claims:

Claim	Record Nos.	Recorded Owner	Recording Date
Tara 1-27	55799-55825	Great Plains Development Company of Canada, Ltd.	Sept. 28/71

Work for which assessment credit is requested was carried out during the period June 11 to September 1, 1972.

SUMMARY

This report details the geochemical surveying carried out on the Tara claim group during the period June 11 to September 1, 1972. As a result of the work performed, assessment credit is requested on the claims as follows:

Tara Claim Group

Claims	Record Nos.	Assessment Credit Requested	Total
Tara 1-4	55799-55802	9 yrs each claim	36 years
5-27	55809-55825	10 yrs each claim	230 years
			266 years

The total value of the requested assessment credit and the total cost of geochemical work performed on the claim group is listed below:

Group	Requested Assessment Credit	Cost of Geochemical Work Performed
Tara #1	266 years	$26,621

This report with accompanying maps and statement of expenditures is hereby submitted to record the above assessment credit.

INTRODUCTION

This report presents the results of the geochemical survey carried out during 1972 on the Tara group of mineral claims. The claims are wholly owned by Great Plains Development Company of Canada, Ltd. and were recorded September 28, 1971. The initial staking was done to add to ground already held by Great Plains and to cover the northerly extension of favorable geology.

To filter out interesting areas, a geochemical survey was carried out over all parts of the Tara group. To facilitate the survey and to provide control for future geological and geophysical surveys, an approximate total of thirty-three line miles were cut, picketed and flagged. The cost of about 9.3 miles of linecutting is not included as assessment work as some lines extended beyond the claim group described in this report. Approximately 1230 soil samples were collected along the lines within the Tara claims.

LOCATION AND ACCESS

The Tara claim group is located along the eastern front of the Coast Range Mountains approximately fifty-two air miles south of Telegraph Creek, B.C. The claims lie six miles west of the Iskut River near the confluence of Ball

Creek and a creek locally known as Devil Creek on the flank of a steep-sloped mountain between elevations 2500' and 5500'.

Supplies and equipment can be obtained from a supplier at Eddontenajon Lake and can be freighted south by truck to within ten miles of the property. From here, helicopters are required to ferry the supplies into the property. Rugged terrain precludes servicing with fixed-wing aircraft.

GEOCHEMISTRY

Geochemical surveying was carried out on the Tara claims in an effort to outline favorable areas that would warrant further work. Owing to the rugged topography and the dense undergrowth, it was necessary to establish a cut grid on all parts of the property. A base line was surveyed in with chain and transit and cross lines were turned off at 400 foot intervals. The cross lines were chained, picketed, and flagged every 100 feet and soil samples were collected at every 100 foot center where soil was available. A total of about 1230 soil samples were collected from approximately 23.7 miles of cut line.

At higher elevations, the soil is mainly residual with thicknesses varying from a few inches to as much as six feet. Nearer the valley floor, the character of the over-

burden changes from residual soil to slumping talus and soil and then to glaciofluvial gravels.

Samples were usually taken at a depth of about six inches which was the average depth at which the "B" horizon seemed best developed. The soil collected was put into kraft paper bags and sent to Van Geochem Labs for assay.

The procedure used for laboratory processing and analyses of soil samples is as follows:

1. Samples are sorted, recorded and dried at $60^{o}C$.
2. Dried samples are sieved to -80 mesh fraction with a nylon and stainless steel sieve.
3. 0.5 gram of -80 mesh sample fraction is weighed into test tube and digested with hot 70% perchloric and concentrated nitric acid. Samples are digested until all organic material is oxidized (approx. 4 hrs.).
4. Digested samples are diluted to 25 ml. volume with demineralized H_2O and mixed thoroughly. Solutions are settled until clear.
5. Copper is analyzed in aqueous solution with Techtron A-A-3 Atomic Absorption Unit - Detection limit in soils and stream sediments for Copper is 1 p.p.m.
6. Molybdenum below 5 p.p.m. is analyzed colorimetrically, with stannous chloride - ammonium thiocyanate procedure and "moly Iso-amyl alcohol" is read on Bausch and Lomb Spectronic-20. Detection limit - 1 p.p.m. Molybdenum greater than 5 p.p.m. is analyzed by atomic absorption - detection 2 p.p.m.

The plot of the results from the samples indicates a large, anomalous zone near the center of the claim group which requires further work to determine the source of the anomaly.

CONCLUSIONS

Coincident copper and molybdenum anomalies near the center of the claim group definitely require further attention. It is recommended that a comprehensive program of geological mapping and geophysics be conducted to determine the metal source.

Statement of Expenditures
Geochemical Survey on the
Tara Claim Group
Liard Mining Division

Salaries		
G. Mitchell, 3rd yr. Geophysics Student Field Supervision	40 days @ $30/day	$ 1,200
K. Wing, Cook	26 days @ $25/day	650
J. Wyman, Cook	29 days @ $25/day	725
M. Abou	8 days @ $25/day	200
K. Kaser, Expeditor	34 days @ $25/day	850
C. Abou, Linecutter/Sampler	41 days @ $25/day	1,025
F. Abou, " "	37 days @ $25/day	925
J. Abou, " "	42 days @ $25/day	1,000
T. Dennis " "	30 days @ $25/day	750
V. Reid, 3rd yr. Geophysics student	11 days @ $25/day	275
D. Dennis, Linecutter/ sampler	26 days @ $25/day	650
E. Quock, Linecutter/ sampler	16 days @ $25/day	400
L. Quock, Linecutter/ sampler	18 days @ $25/day	450
H. Dennis	24 days @ $25/day	600
		$ 9,700
Transportation		
Helicopter Charges	30 hrs @ $258/hr.	$ 7,740
Drafting Supplies		$ 375
Camp Supplies		$ 5,625
Supervision		
M. McInnis, Exploration Geologist	31 days @ $35/day	$ 1,085
Assaying		
1233 samples @ $1.70/sample		$ 2,096
	TOTAL	$26,621

(over)

Declared before me at the City

of Vancouver, in the

Province of British Columbia, this 7

day of November, 1972, A.D.

Wm. D. McInnis.

L. Jamotte

~~A Commissioner for taking Affidavits within British Columbia or~~
~~A Notary Public in and for the Province of British Columbia.~~

Sub-mining Recorder

D. L. COOKE AND ASSOCIATES LTD.
MINERAL EXPLORATION CONSULTANTS

TELEPHONE:
BUS. 576-8148
RES. 576-8170

16331 BELL ROAD
SURREY, B.C.,
CANADA

STATEMENT OF QUALIFICATIONS

I, DAVID LAWRENCE COOKE, of the Municipality of Surrey, British Columbia, Canada,

HEREBY CERTIFY:

1. That I am a Consulting Geologist, residing at 16331 Bell Road, Surrey, B.C., with an office at the same address.

2. That I graduated with a B.Sc. degree in Geology from the University of New Brunswick in 1959, and received my M.A. and Ph.D. degrees in Geology from the University of Toronto in 1961 and 1966 respectively.

3. That since graduation I have practised my profession as a Geologist in Canada, Mexico and Jamaica.

4. That I am a certified member of the Association of Professional Engineers of the Province of British Columbia.

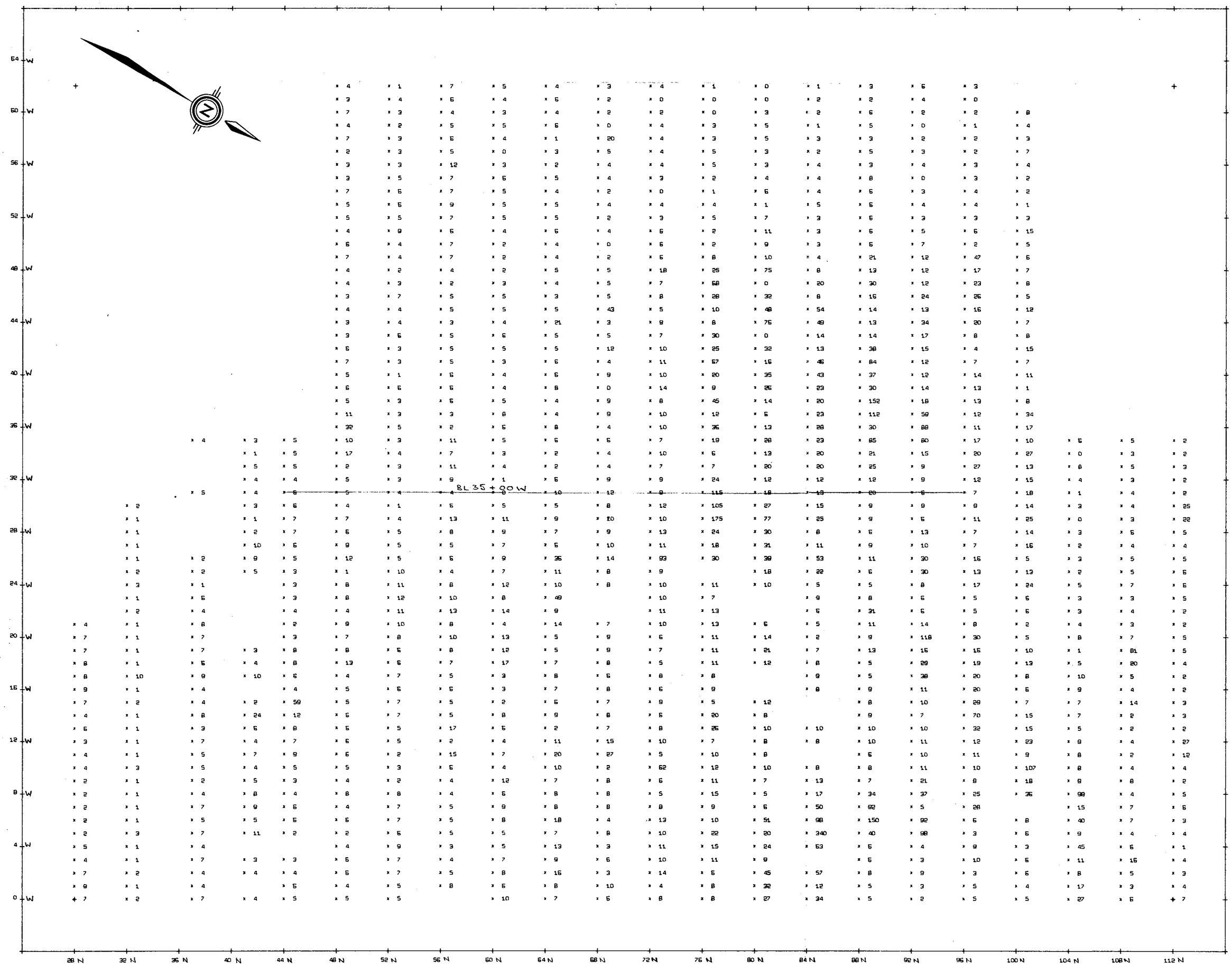
5. That I have examined the accompanying Geochemical Report on the TARA GROUP, Ball Creek, Iskut River Area, together with the three attached plans herein submitted. I concur with the manner in which the survey was conducted, and with the conclusions

and recommendations presented in this report by M. D. McInnis on behalf of Great Plains Development Company of Canada Ltd.

6. That I have known M. D. McInnis since his graduation in 1969 with a B.Sc. degree in Geology from the University of British Columbia, and I have found him to be a trustworthy and conscientious geologist.

DATED this 27th day of October, 1972, at Surrey, B.C.

D. L. Cooke, Ph.D., P.Eng.
Consulting Geologist



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M-3

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.

BRITISH COLUMBIA
BALL CREEK ISKUT RIVER AREA
TARA GROUP NO. 1
Mo GEOCHEMISTRY RESULTS

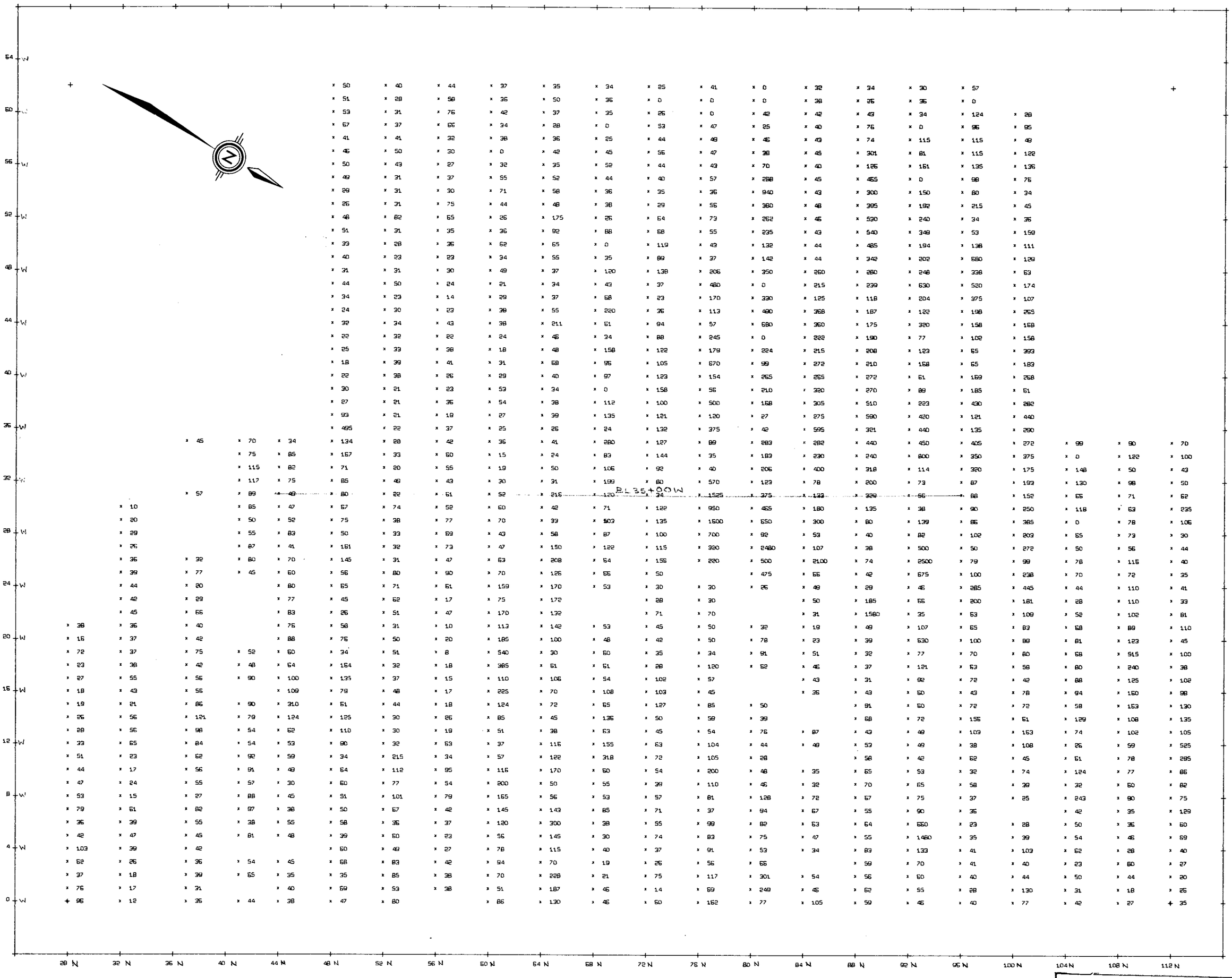
SCALE 1" = 400'

LIARD M.D.
M. D. McINNIS

NTS 104 G
OCTOBER, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3978 MAP #3

- TO ACCOMPANY GEOCHEMICAL REPORT BY M. D. McINNIS ON THE TARA GROUP NO. 1, BALL CREEK-ISKUT RIVER AREA, LIARD MINING DIVISION DATED OCTOBER 17, 1972.



3978 M-2

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA LTD.

BRITISH COLUMBIA
BALL CREEK ISKUT RIVER AREA
TARA GROUP NO. 1
Cu GEOCHEMISTRY RESULTS
SCALE 1" = 400'

LIARD M.D.
M. D. McINNIS

NTS 104 G
OCTOBER, 1972

- TO ACCOMPANY GEOCHEMICAL REPORT BY M. D. McINNIS ON THE TARA GROUP NO. 1, BALL CREEK-ISKUT RIVER AREA, LIARD MINING DIVISION DATED OCTOBER 17, 1972.

DEVELOPMENT COMPANY
OF CANADA, LTD.

BRITISH COLUMBIA
BALL CREEK - ISKUT RIVER AREA

TARA GROUP No. 1

LINECUTTING GRID PLAN

400 200 0 400 800
FEET

LIARD M.D. N.T.S. 104G

G. MITCHELL SEPTEMBER, 1972

TARA 1 TARA 2
TARA 3 TARA 4
TARA 5 TARA 6
TARA 7 TARA 8
TARA 9 TARA 10
TARA 11 TARA 12
TARA 13 TARA 14
TARA 15 TARA 16
TARA 17 TARA 18
TARA 19 TARA 20
TARA 21 TARA 22
TARA 23 TARA 24
TARA 25
TARA 26
TARA 27

BL 35+00W
BL 0+00

DEVIL CREEK
BALL CREEK

To accompany geochemical report by M.D. McInnis, exploration geologist on the Tara Group No. 1, Ball Creek - Iskut River area, Liard mining division, dated Sept. 22, 1972