

6536

CHINOOK CONSTRUCTION & ENGINEERING LTD.  
ASSESSMENT REPORT ON THE DTD GROUP  
(DENA, TARA AND DEB CLAIMS)  
GREENWOOD MINING DISTRICT, B.C.  
1ST AUGUST TO 31ST AUGUST, 1977

A.M. de Quadros  
Project Geologist

November 30, 1977

## INTRODUCTION

The DTD Group is part of the Granby Property, consisting of several claims assembled into one mining property jointly by Chinook Construction & Engineering Ltd., Consolidated Boundary Exploration Ltd. and Cassiar Asbestos Corporation Ltd., for the purpose of investigating the uranium showings in the Christina Range of the Monashee Mountains, approximately ten miles north of Grand Forks, B.C.

During the period of 1st August to 31st August, 1977, the DTD Group was investigated by geochemical sampling as part of the investigation of the Granby Property by Chinook Construction & Engineering Ltd. on behalf of the joint venture. The following is a report on the work carried out on the DTD Group.

### Property

The DTD Group consists of 3 claims grouped on the 8th November, 1977 and consists of the following:

DEB	Ref. No.	122-1	Claim No.	570	12 units
TARA	Ref. No.	122-2	Claim No.	571	16 units
DENA	Ref. No.	122-3	Claim No.	572	4 units

These claims were staked on the 2nd and 3rd November, 1976 and registered on 9th November, 1976.

### Location and Access

The DTD Group is located about 12 kilometres NNE of Grand Forks between Snowball Creek and Toronto Creek in the Greenwood Mining Division. The latitude is approximately  $49^{\circ} 06'N$  and longitude is  $118^{\circ} 26'W$ , N.T.S. 82 D/11. Access to the

82E/1W

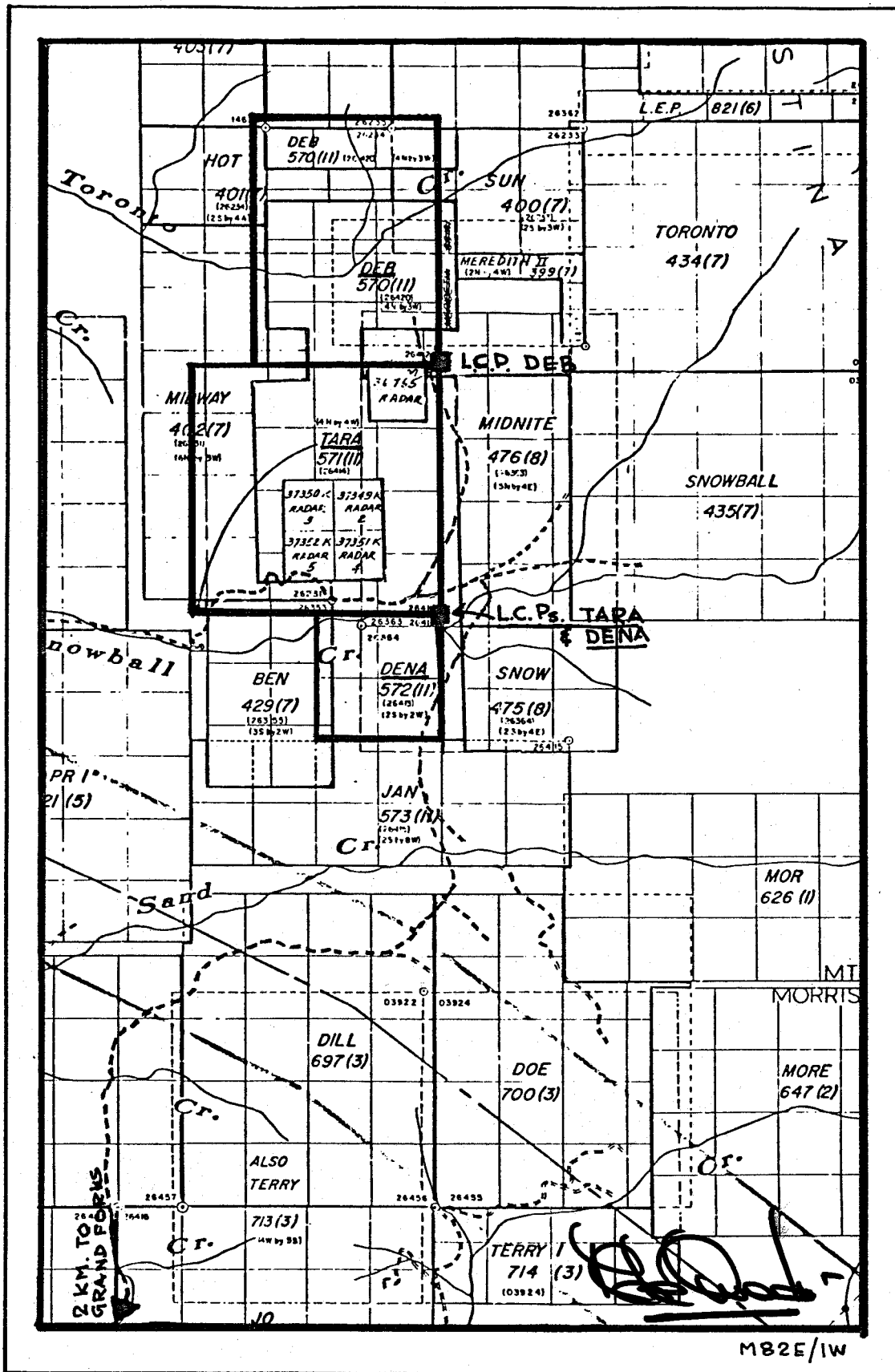


FIG.1: LOCATION MAP - DTD GROUP

property is by a dirt road extending North from Highway 3 at Grand Forks (Fig. 1).

### General Geology

The general geology of the Grand Forks area has been presented in two publications:

- |    |                    |  |
|----|--------------------|--|
| a) | H.W. Little, 1957: | Map 6-1957, Kettle River, East Half Geological Survey of Canada. Scale 1 inch to 4 miles.        |
| b) | V.A. Preto, 1970 : | Structure and Petrology of the Grand Forks Group, B.C. Paper 69-22, Geological Survey of Canada. |

The area is underlain by rocks of the Grand Forks Group, a raised fault block of high grade metamorphic rocks which are part of the Sushwap Metamorphic Complex. The rocks consist of biotite, amphibole and pyroxene gneisses and schists with minor quartzites and calcareous rocks. A later metamorphic foliation has been imposed on these rocks. The fold axes appear to be east-west. The whole complex has been intruded by the early basic sills and dykes (now amphibolites) and later acid intrusives ranging from quartz-diorites to quartz monzonite, monzonite and syenite. Block faults are prominent throughout these rocks. The rocks show extreme folding in a general NE - SW direction and prominent jointing and dyke emplacement in a rather N-S trend.

Maximum mineralization appears to be associated with pegmatite lenses and also in the North-South shear zones; the mineralization is predominantly uraninite. Secondary uranium minerals are rare but do occur in the main showings.

WORK DONESurvey Grid

In the interest of conformity with the grid established by G.E. White in 1976 in the adjoining Jan Claim, the same N-S base line was resurveyed by compass and chain, cut out, blazed and flagged. Pickets were placed every 50 metres on the base line.

East-west lines were turned off every 100 metres; these were flagged and stations were established every 50 metres. In the interest of accuracy, accurate control lines were established along 10E, 20E and 10W to which cross-lines were tied.

Geochemical Survey

Soil samples were obtained at 50 metre intervals along the traverse lines, care being taken to ensure that all came from the 'B' horizon. Approximately 1200 samples were taken. These were sent to Chemex Labs Ltd. in North Vancouver for Uranium determination. Results are on Fig. 3. The analysis was carried out as follows:

One-half gram of -80 mesh sample was ashed and then digested twice with 4M  $\text{HNO}_3$ . The residue was then dissolved in 25 millilitres of 4M  $\text{HNO}_3$  and shaken. After settling, 0.2 millilitres of the solution were placed on a platinum dish and evaporated to dryness. A pellet of uranium-fluorescent flux was added to the residue and the mixture fused at 650°C. The resultant pellet was placed in a Tanner III Fluorometer and its fluorescence measured to an accuracy of 0.05 ppm.

Geochemical ResultsStatistical Analysis

A total of 5074 geochemical analyses were available from the Granby Property and these have been used to interpret the geochemistry. These analyses show a log-normal distribution, though with a possible second population above threshold values. The following are the values determined:

mode	0.5 ppm
mean ( $\bar{x}$ )	1.3 ppm
standard deviation (s)	$\pm$ 4.9 ppm
threshold ( $\bar{x} + s$ )	6.2 ppm
low anomaly ( $\bar{x} + 2s$ )	11.1 ppm
high anomaly ( $\bar{x} + 3s$ )	16.0 ppm

The anomalous values are distributed as follows:

Above threshold ( $\bar{x} + s$ )	5.26%
Above low anomaly ( $\bar{x} + 2s$ )	3.04%
Above high anomaly ( $\bar{x} + 3s$ )	2.70%

These values are higher than predicted by the mathematical model, suggesting a second population. The anomalous areas defined appear neither overly restricted nor overly large.

Geochemical Analysis

The geochemical results have been plotted on Fig. 2 and are contoured on the basis of the statistical analyses. They show several anomalous areas, generally linear and trending either NW, N or NE, the most interesting being the ones east of Radar 1, the one extending through Radar 5 and a large one south of Radar 4. These anomalies appear to correlate with the showings on the Radar Group and are probably related to these showings. No follow-up work was done during the present programme; this is planned during the next season.

6.

SUMMARY

The geochemical survey of the DTD Group served to locate several anomalies; the significance of these anomalies will remain unknown until radiometry and surface geology work is carried out. However, the results are encouraging and further work is recommended.




A.M. de Quadros,  
Project Geologist

STATEMENT OF COSTS

Part of the CBC Joint Venture; costs assigned to DTD Group  
as follows:

a) Wages		
	A.M. de Quadros, Project Geologist	
	4 days @ \$90.00	360.00
	5 Assistants 50 man-days @ \$60.00	<u>3,000.00</u>
	Total Wages	3,360.00
b) Room and Board (Motel)		
	54 man-days @ \$32.00	1,664.00
c) Transportation		
	2 4x4 trucks @ \$500.00/month	300.00
d) Geochemical Assays		
	1200 @ \$2.25	2,700.00
e) Expendables (flagging, thread, etc.)		400.00
f) Report Preparation		<u>300.00</u>
		<u>\$8,724.00</u>

  
A.M. de Quadros  
Project Geologist



STATEMENT OF QUALIFICATIONS

I, Antonio M. de Quadros, certify that:

a) I hold the following degrees in Geology:

B.Sc Hons.	University of London	1964
M.S.	U.C.L.A.	1968
Ph.D.	University of Nairobi	1972

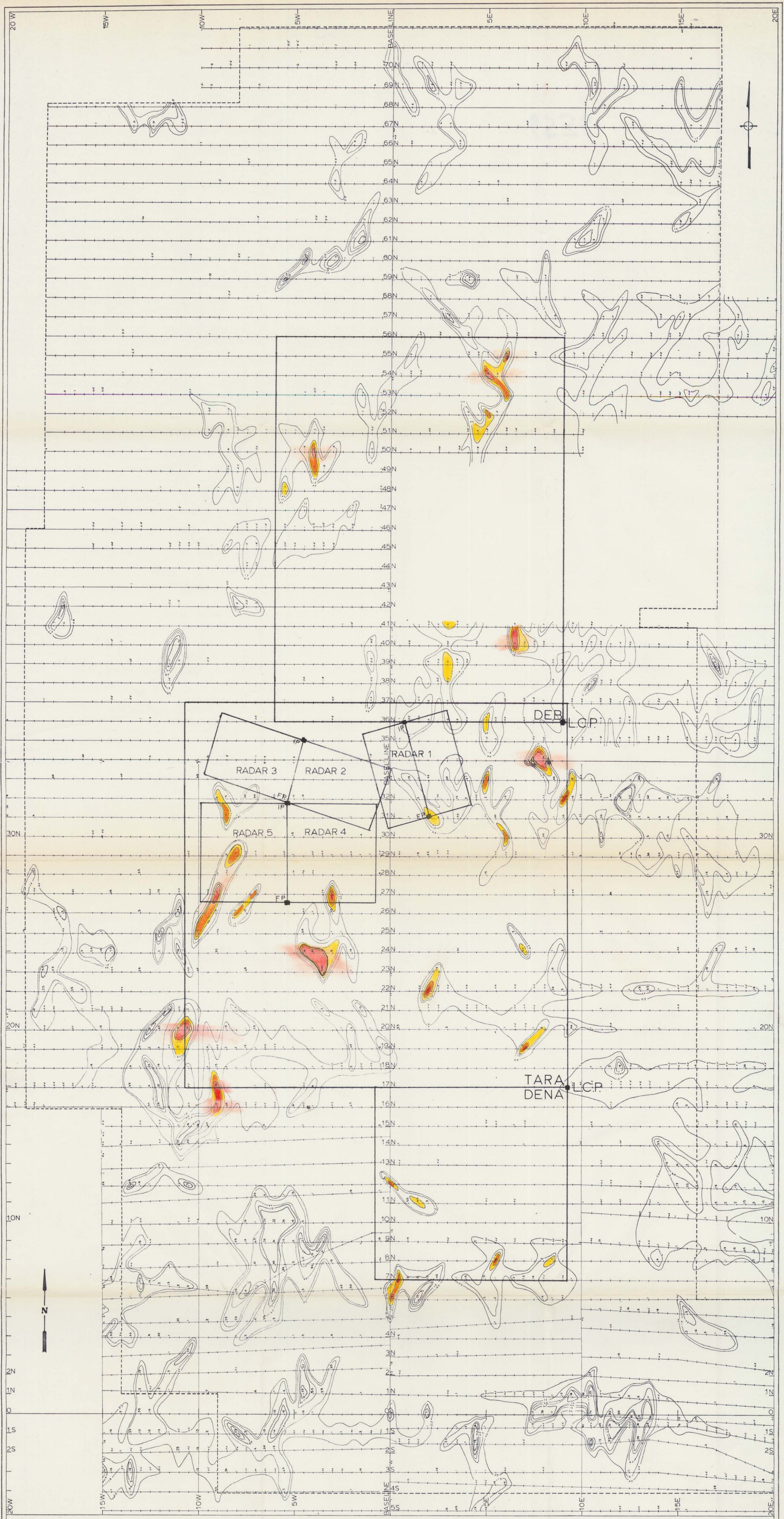
b) I have worked on geological projects since 1959, including:

- i 1964-1965: Geologist, Geological Survey of Tanzania
- ii 1968-1972: Lecturer in Geology, University of Nairobi, Kenya
- iii 1973 : Geologist, Agilis Exploration Services, Vancouver, B.C.
- iv 1974 : Geologist, Union Carbide Exploration, Vancouver, B.C.
- v 1974-1975: Geologist, Dolmage Campbell & Associates, Diamond Drilling of Hat Creek Coal Deposit
- vi 1975-1976: Geologist, Kerr Addison Mines, Feasibility & Exploration, Grum Joint Venture
- vii 1976-1977: Geologist, Dolmage Campbell & Associates, Interpretation, Hat Creek Coal Deposit.

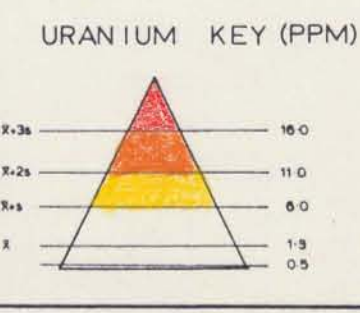
c) I am a pupil member of the Association of Professional Engineers of British Columbia.



A.M. de Quadros  
Project Geologist



CBC JOINT VENTURE-GRAND FORKS, B.C.  
 URANIUM SOIL GEOCHEMISTRY  
 DTD GROUP  
 (DENA, TARA AND DEB CLAIMS)  
 FIG. 2



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. **6536**

*[Signature]*  
 SCALE  
 1:10,000  
 --- PROPERTY BOUNDARY (APPROX)  
 --- CLAIM BOUNDARY (APPROX)  
 31 OCTOBER 1977  
 Chinook Construction & Engineering Ltd.