

77-#396-#6507

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ASSESSMENT REPORT

for the

RAM, Claims 101, 102, 103 and 105

104I - 9

Liard Mining Division

by

C. N. Forster, Project Geologist

Union Carbide Canada Limited

November, 1977

Location

The Ram claims, which are situated on the north side of the Turnagain River, approximately 99 miles south-south east of Watson Lake, were mapped and prospected by geologists and an assistant employed by Union Carbide Canada Limited as part of the evaluation of W. Kuhn's holdings (Ram, May and Sheep Groups). These claims are under option to Union Carbide Canada Limited, of 404 - 1112 West Pender Street, Vancouver. The target for exploration in this locality is economic scheelite mineralization.

Access

Access is by helicopter from either Watson Lake or Dease Lake.

Physiography

The claims are located in the Cassiar Range. Relief is quite marked:- the northwest corner of the area mapped is at 7,000 feet elevation and the south-east at 4,300 feet. Total relief in the Turnagain valley is over 5,000 feet. All of the area mapped is above timberline and apart from scree slopes shows good rock exposure. The many cliffs do present some difficulties for surveying and mapping.

Work Performed

The work was executed at two intervals. During June, 1977, a triangulation network was established to provide control over the area to be geologically mapped. Geological mapping of the Ram 101 the 105 claims, plus the adjacent May claims was accomplished between the 12th and 19th of August, 1977. Time actually spent on the May claims is estimated as 16 man days. The mapping was carried out mostly by stadia traversing, tying-in with the previously established triangulation network for control. A few short compass and tape traverses

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were used to fill in detail.

Geology was by T. Liverton and S. C. Fraser, geologists and E. Rehtlane, assistant. W. Kuhn, prospector, assisted with prospecting for two days.

The mapping is presented at a scale of 1" to 200 feet.

Claim Data

Ram 101	Record No.	233(10)	Expires October 7th, 1977
102		234(10)	
103		235(10)	
105		236(10)	

Affidavit for work performed filed October 6th, 1977

Geology

Much of these four claims cover a dolomite unit, which is part of a sedimentary sequence of probably Lower Paleozoic age occurring between the Cassiar Batholith to the south and east and a major quartz-monzonite stock whose east contact is a few hundred metres from the map margin. The small stock shown on this map is one of a pair, the other being immediately to the north and covered partly by the Ram 103 claim.

The sedimentary succession here consists of an extensive schist (over 500 metres thickness) with some calcareous horizons, overlain by a carbonate unit, which varies from over a hundred metres to about 20 metres apparent thickness over the width of this map and shows varying extent of dolomitisation from bedded limestone to massive yellow dolomite. Above this unit is a further schist and then the extensive massive, yellow, dolomite that covers most of the four claims. It was originally thought that the dolomite is a thrust sheet of Proterozoic age. We can find no evidence to decide whether there is in fact a

faulted contact - the contact is conformable, sharply defined and without any sign of mylonitization, brecciation or serious deformation. Attitudes of bedding above and below are not markedly discordant, as some small scale folding is evident in the schist and lime unit. This does not disprove the existence of a fault, but neither does it confirm it.

Mineralization and Prospecting

The Ram 105 and 101 claims show no calc-silicate horizons and are not directly of interest for scheelite exploration. Scheelite has been found shedding from the mountainside in the south-west corner of the map, but I am certain that this is associated with the sills and dykes on the May 10 claim.

Ram 102 does show some calc-silicates and skarn at two localities - at the centre of the southern edge and in the south-east corner. As yet no idea of size can be obtained, but some scheelite was noted there. Further mapping and some additional prospecting is warranted here.

The granite contact, on the north-west side of the stock appears to be quite steeply dipping, so the prospect of skarn developed down dip on the limestone unit is remote. It is not impossible that a further stock lies completely buried to the north-west, but we have no way of determining this.

Ram 103, as already mentioned, covers part of the second small granitic stock. It was not mapped this year due to the extreme relief (over 2,000 ft) and difficulty of surveying in such country. Two days were spent by W. Kuhn in the vicinity, prospecting drainages from this granite. Scheelite was noted in the creeks coming from the vicinity of the contact. Further prospecting needs to be done here

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before any mapping is attempted.

Conclusions

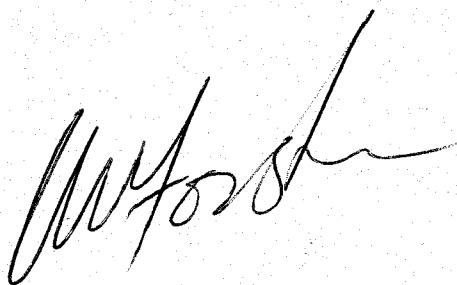
- i. Some scheelite has been found in the skarn on the south side of the Ram 102 and further prospecting is required here, particularly night lamping and possibly some pitting where scree covers the outcrop. Sampling and assay work should follow.
- ii. The source of scheelite shedding into creeks below Ram 103 has not yet been located and requires further prospecting and possibly later mapping and sampling.

Union Carbide will most likely continue prospecting and mapping on these claims during 1978.

:MW

STATEMENT OF EXPENDITURE

2	man-days of surveying	
14	man-days of geological mapping at a scale of 1:500 (metric)	\$1,088
	Helicopter (Bell G 3-B1)	<u>400</u>
	Total	<u>\$1,488</u>

A handwritten signature in cursive script, appearing to read 'W. Foster', is written across the lower-left portion of the page.

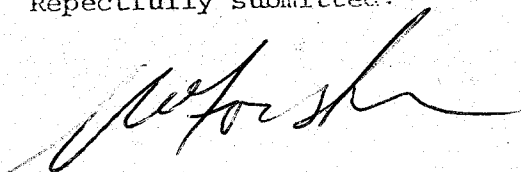
Statement of Qualifications

C. N. Forster - B.Sc. Geology, 1974

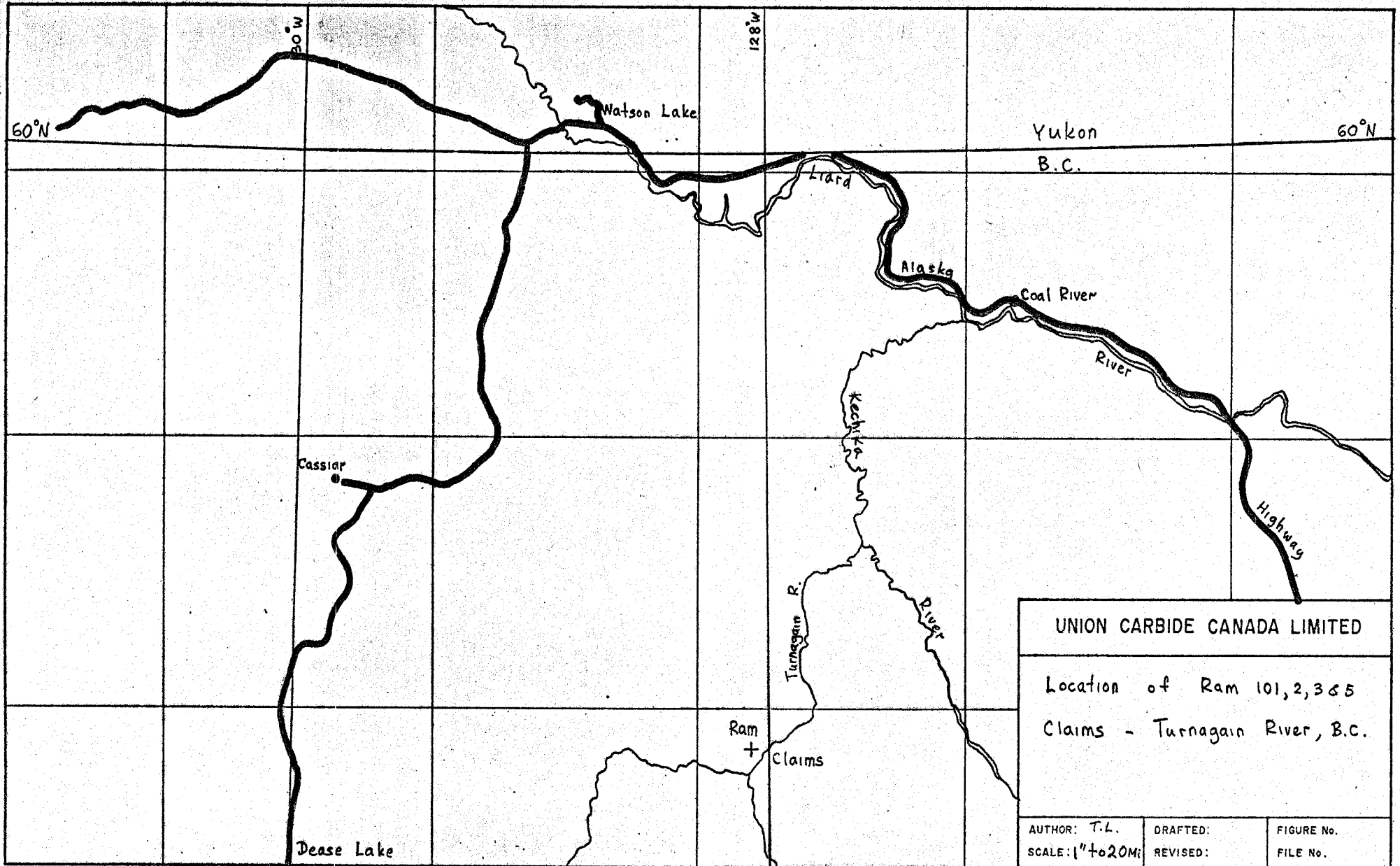
Attended U.B.C. majoring in geology from 1966 to 1970
and again in 1973 to 1974.

- Employed by:
1. Tegasgulf as a geologist from 1970 to 1973 in
both Canada and South Africa;
 2. Archer Cathro and Associates as a geologist in
1974;
 3. Union Carbide of Canada Limited; as a
geologist from 1975 to present. I am
presently a senior project geologist responsible
for tungsten exploration in the Canadian
cordillera.

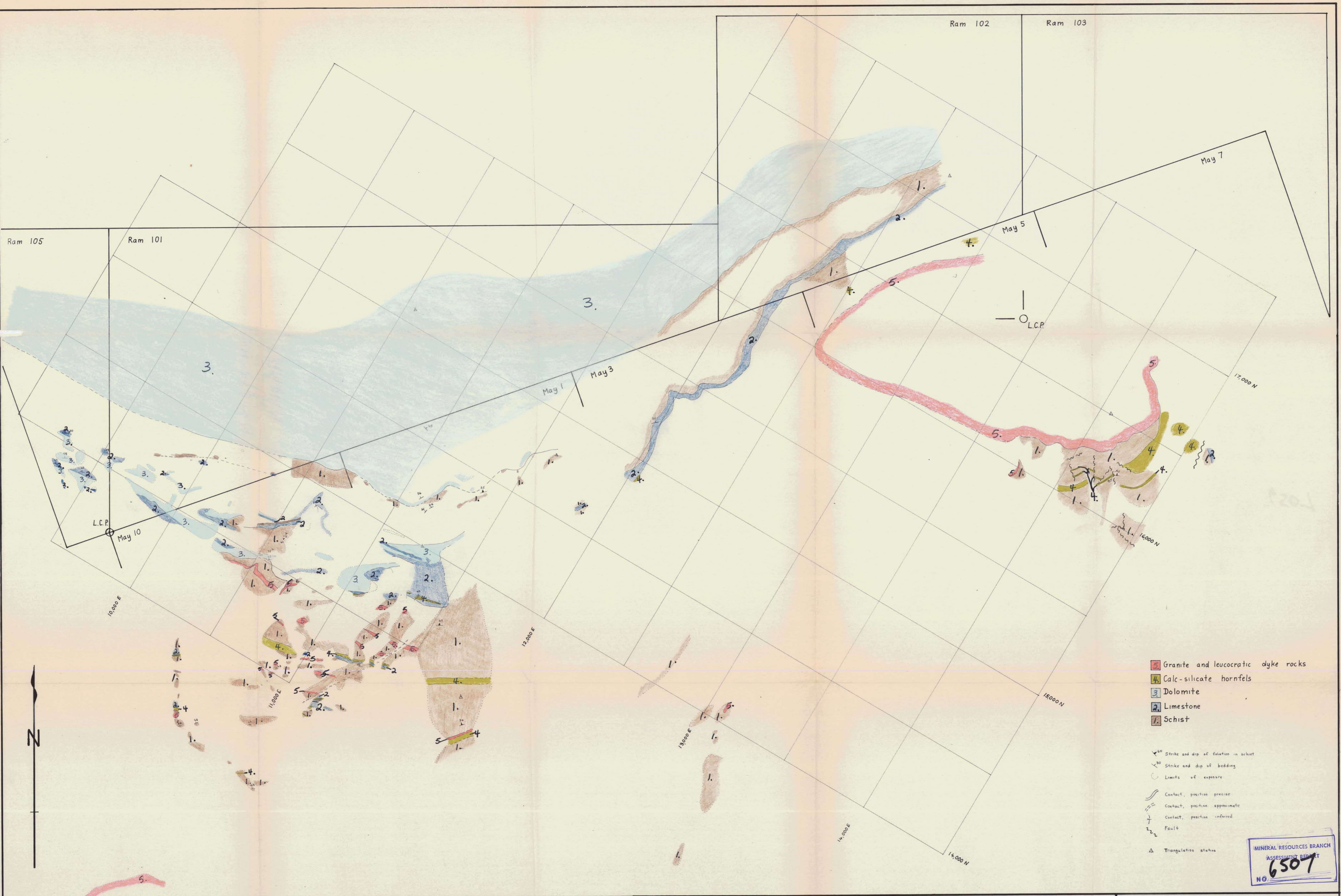
Respectfully submitted.



C. N. Forster-Project Geologist



UNION CARBIDE CANADA LIMITED		
Location of Ram 101, 2, 3 & 5 Claims - Turnagain River, B.C.		
AUTHOR: T.L.	DRAFTED:	FIGURE No.
SCALE: 1"=20M	REVISED:	FILE No.

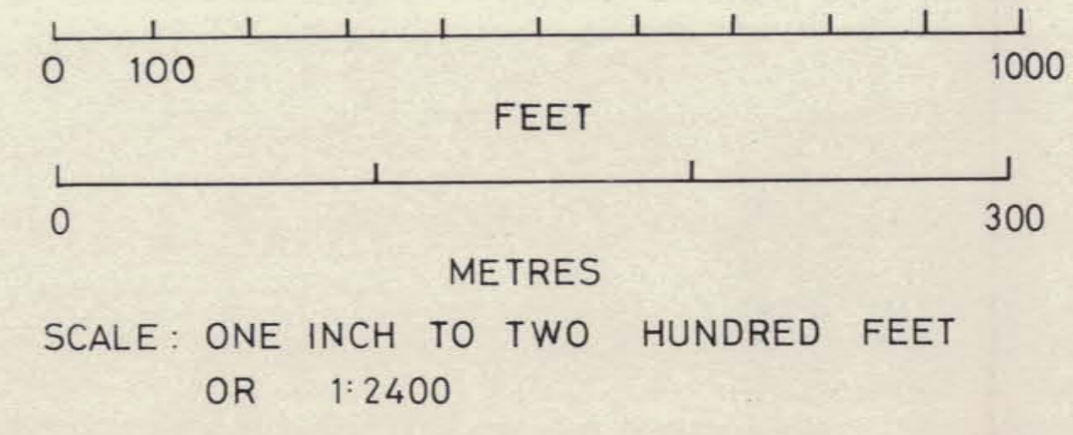
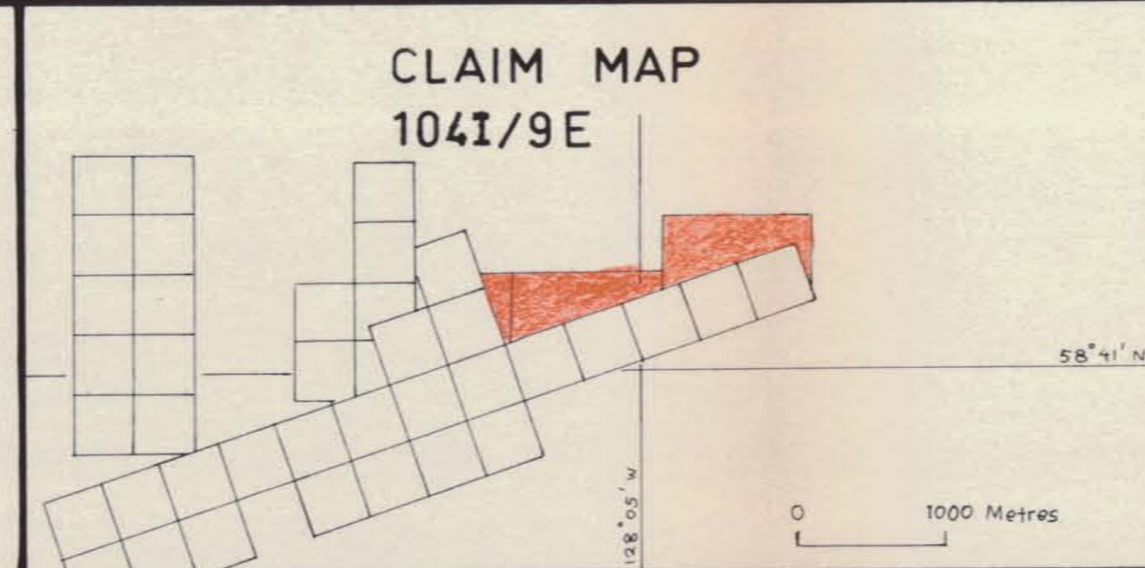


- 5 Granite and leucocratic dyke rocks
- 4 Calc-silicate hornfels
- 3 Dolomite
- 2 Limestone
- 1 Schist

- ↘⁶⁰ Strike and dip of foliation in schist
- ↘³⁰ Strike and dip of bedding
- Limits of exposure
- Contact, position precise
- - - Contact, position approximate
- · - Contact, position inferred
- ⊥ Fault
- △ Triangulation station

MINERAL RESOURCES BRANCH
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NO.

UNION CARBIDE CANADA LIMITED
CLAIM GROUP RAM 101, 102, 103 & 105 - TURNAGAIN RIVER, B.C. - GEOLOGICAL MAPPING DURING 1977
ALSO SHOWING PORTION OF THE MAPPING ON THE ADJACENT MAY CLAIMS



Mapping by stadia traversing between control points provided by a triangulation network.
GEOLOGY: Stuart Fraser, Louis Bell & Tim Liverton
CONTROL SURVEYS: T.L.
Approved [Signature]
28 Nov. 1977.