'79-#431-#7510

DIAMOND DRILL REPORTS ON THE RAM, MAY, AND ELLA CLAIMS IN THE TURNAGAIN RIVER AREA OF B.C.

Claims: Ram 15, 20, 101 (2 units) 102, 103, 105
May 1, 2, 5, 7, 10, 14
Ella 1, 2, 3, 4, 6
Liard Mining Division
NTS 104 I 9E
Latitude 58°41'N
Longitude 128°05'W
UNION CARBIDE CANADA LTD.
Report prepared by: S. Fraser & T. Glover
July 1979

TABLE OF CONTENTS

Summary

Situated 3 km north west of the confluence of the Turnagain and Cassiar rivers in north central British Columbia, the Ram, May, and Eliza claims were diamond drilled to test skarn hosted scheelite mineralization. Four drill holes were put down - three of them vertically while the fourth, 9T 4, was angled at -71° and bearing 036° true.

It is thought the calcareous units within the property are Hadrynian in age and not Lower Cambrian as had earlier been assumed. The limestones had then been thrusted upon by a thick assemblage of dolomites and finally intruded by an early Cretaceous quartz monzonite stock producing the garnet-diopside and garnet-idocrase skarn variations.

While drilling was beset with severe mechanical problems it became evident that the skarn present was of low grade mineralization and minimal thicknesses. Based on drilling and exposure of lower skarn zone, it was recommended the property be given back to W. Kuhn.

Summary

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Work Done

From 1977 to 1978 preliminary mapping, night lamping and sampling by Union Carbide geologists had outlined significant tungsten values to warrant diamond drilling the property.

In 1979 four holes were drilled using both NQ and BQ core. Chip sampling and some soil sampling was also carried out. A Bell Bl helicopter was used to support drill while drill moves required use of Bell 206 helicopter.

The property was also used as a base camp to prospect, map and sample Grubstake claims in the immediate area.

Claim Data

Claims	Record Number	Date Staked
Eliza 1	72202	October 3, 1974
Eliza 2	72203	" "
Eliza 3	72204	" "
Eliza 4	72205	" "
Eliza 6	72207	" "
May 1	71214	May 27, 1974
May 3	71216	" "
May 5	71218	" "
May 7	71220	" "
May 10	71223	" "
May 14	72197	September 17, 1974
Ram 101 - 2units	233	October 6, 1974
Ram 102	234	" "
Ram 103	235	" "
Ram 105	236	" "

Geology

According to recent work of Dr. H. Gabrielse, of the Geological Survey, the calcareous units of the Turnagain are Hadrynian limestones (equivalent to Windermere limestones to the south). The limestones present (argillaceous, massive, and fetid) are in fault contact with lower Proterozoic schists and phyllites. This package had then been thrust faulted upon by lower Cambrian dolomite and then intruded by an early Cretaceous quartz monzonite stock. The resulting metasomatism produced the garnet diopside skarn present. Trend of most rock units is N54° magnetic and dipping 30-35° west.

Quartz veining found in schist and dolomite was probably induced at time of intrusion.

The final phase occurring within the property are basaltic dikes generally a metre thick dipping 70° east.

Alteration

Within the dolomite, manganese alteration and/or injection was particularly strong and often completely replaced the dolomite (9T 1). No scheelite was observed in this replacement but samples were split and sent for assay, but proved to be scheelite deficient.

Only minor argillic alteration was observed in drilling and only in Hole 2.

Diamond Drilling

A series of 4 holes were drilled with NQ and BQ core. Drilling was done with a Longyear Super 38 with Amity Drilling Ltd. of Whitehorse, Yukon, contractors.

Drill Hole 1, 9T 1, was put down on the main ridge at -90°. This hole

only went as far as 926' or 283.5 metres as machinery broke down. Over 400' of NQ drill rods fell back into hole when hoisting gear sheared. When this misfortune happened, the blocking gear did not hold the rods and they slipped down the hole. In trying to fish for these rods ice was encountered and drilling was found to be very hard going. At this point Ca Cl_2 was being used to prevent freezing of hole. When hole was reached and cutting plug connected on to rods hoisting cable snapped and again parts had to be ordered and hole froze to surface again. At this point hole was abandoned. Therefore hole did not penetrate as deep as it was intended and only weakly mineralized calc-silicate skarn was intersected. From the drill sections the skarn zone intersected may represent a skarn not exposed on surface, but this is speculative.

Diamond drill hole 9T 2 was drilled north of 9T 1 along Schist Creek to a depth of 312 metres. Drilling here encountered thin bands of calc-silicate within schist with only traces of Ca WO_4 present. Hole was drilled near the Schist Creek Fault where faulted core was very evident. The upper skarn zone at the upper contact of schist and limestone did not exist here and only calc-silicate bands of skarn and hornfels were encountered. No sulphide skarn was present.

Diamond drill hole 9T 3 was intended to intersect a lower skarn zone at -90° but here a basaltic dike was cut and paralleled drilling. Hole was stopped at 61 metres (198'). From same set-up an inclined hole, azimuth 136° @ -71° was drilled (9T 4).

Hole 9T 4 intersected a zone of calc-silicate not exposed on surface with some good mineralization but overall grade (8.5 metres thickness) was $<.3\%$ WO_3. The lower zone intersected had considerable thickness of calc-silicate hornfels (barren), minor skarn, argillaceous limestone. The hole

would, therefore, imply that a lower skarn may not necessarily produce a higher grade skarn with depth nor a thickening of zone with depth.

Sampling

Soil sampling was carried out on the property in mainly two areas. South east of 9T 2 soil sampling was carried out to try and delineate the strike of the lower skarn zone but results indicated little as values were erratic. (See sheet 2 for results)

South of 9T 1 soil samples were taken in lines straight down the hill but here results are probably not reliable due to contamination from quartz veins containing scheelite above. Again it was hoped the lower skarn zone might be found through these samples.

Chip sampling of the lower skarn was carried out above west knoll but results were low as expected from night lamping. Assay results gave 0.03% WO_3 various 22 metres below TS 20 and 0.15% WO_3 across 4.4 metres above TS 20.

Helicopter

A Bl was used for project provided by Quasar Helicopters of Richmond, B.C. Although the Bl was essentially useless for drill moves, it was adequate for servicing drill (carrying drillers to site) and carrying crew to Grubstake claims in area. Unfortunately pilot, P. Kwan, was very inexperienced in flying helicopters but had much fixed wing experience. His being licensed as a mechanic was also helpful as his machine had several breakdowns.

For diamond drill moves a 206 from Frontier Helicopters, Watson Lake, had to used.

Mob/Demobilization

Moving the drill into the Turnagain camp was made using a 205 Bell

helicopter from Frontier Helicopters. The drill equipment was moved from Good Hope Lake directly to the first drill site on the property.

Demobilization was done with the use of a 206 Bell helicopter from Frontier moving equipment to Blue Sheep Lake and from there by Otter to Vines Lake south of Cassiar. Two Otters were utilized for the move out.

Conclusions

Based on the scant information available from drilling, the property would not warrant a major drilling program for the following year. This statement is also backed up by night lamping as the lower skarn zone revealed little scheelite mineralization and chip sampling gave weak results only. The lower skarn zone which had not been mapped is located 36 metres below TS 20. Traces moly were also observed in some of the skarn. Powellite as well as scheelite was detected in lamping but of low grade values.

While there had been pyrrhotite garnet skarn detected in some of the pits, it appears to be as pods only and was not observed in drill core. Diamond drill hole 9T 2 did in fact have pyrrhotite but was found in quartz veining only.

Quartz veining in drill core as well proved to have little or no scheelite mineralization but traces were often observed particularly in dolomite along contacts with quartz veining - but generally only 1 - 2 cm thickness. Also minor scheelite mineralization was infrequently observed (and as traces) along fractures within the dolomite. While the dolomite core itself was often observed to be highly fractured, only periodic traces were observed. Mineralization was generally non-existant in the crystalling limestone.

The satellite plug on the north east side of the property was examined in June and in adjacent calc-silicate skarn only traces of scheelite were observed in samples lamped. The skarns seen here formed thin wedges only and therefore offered little tonnage potential.

While information gained in diamond drilling was insufficient there does not appear to be a target large enough to pursue in an area as remote and as inaccessible as the Turnagain. A further point to be made here is the recognition that an experienced pilot is necessary as the danger from high winds and turbulence is severe.

Stuart Grasso

RAM, MAY, ELIZA CLAIMS

COST STATEMENT JUNE 1 THROUGH JULY 29, 1979

Man hours worked	1,970.00
Accommodation	10,020.00
Drill costs through use of helicopter	36,593.40
Drill costs (coring)	49,726.30
Charter aircraft expense	20,162.20
Assays	528.40
Rental Equipment	1,313.84
Helicopter costs (mapping)	259.00
	$120,573.14

Man Hours Worked/Accommodation

S. Fraser UCEX staff geologist @ $120

T. Liverton " " " $120

P. Levesque " assistant geolgist @ $60

D. Simpson " " " @ $60

I. Benoit Cook

June 6	S. Fraser, T. Liverton - surveying ridge May claims @ $120 per man/day	240.00
	P. Levesque, D. Simpson - assistant geologist @ $60 per man/day	120.00
June 11	S. Fraser @ $120, P. Levesque @ $60	180.00
	T. Liverton @ $120, D. Simpson @ $60 Prospecting satellite plug	180.00
July 13	S. Fraser, T. Liverton clearing drill site @ $120 per man/day	240.00
	P. Levesque, D. Simpson collecting soil samples. Ram claims @ $60 per man/day	120.00
July 14	S. Fraser, T. Liverton mapping Ram, May claims @ $120 per man/day	240.00
	P. Levesque, D. Simpson soil sampling @ $60 per man/day	120.00
	L. Nesbitt drill site clearing @ $50	50.00
July 15	S. Fraser, T. Liverton May claims mapping o/c below Limestone Peak @ $120 per man/day	240.00
July 16	S. Fraser, T. Liverton Ram claims mapping @ $120 per man/day - 1/2 day	120.00
	P. Levesque, D. Simpson - chip sampling below TS 20 @ $60 per man/day	120.00
		$1.970.00

Accommodation

June 1st/June 5 - All crew (Camp construction) 5 men @ $30 day - 25 man/days	750.00
June 6/July 16 - 19 man/days @ $30	570.00
Carried Forward	$1,320.00

	Brought Forward	1,320.00
June 16/July 28 inclusive - accommodation for 4 diamond drillers and 1 cook - 290 man days @ $30 per man/day		8,700.00
		$10,020.00

Diamond Drilling Costs

Mobilization of drill and crew

June 16 From Good Hope Lake to Turnagain River property		
205 Bell Helicopter @ $750 per hr. - 10 hrs.		7,500.00
Fuel - 10 hrs. @ $90		900.00
		$8,400.00
June 18 205 Bell Helicopter - 6 loads 9.3 hrs. @ $750		6,975.00
Fuel - 10 hrs. @ $90		837.00
		$7,812.00
June 16/July 28 B.1 helicopter used to ferry men and supplies 47.6 hrs. @ $185 per hr.		$8,806.00
July 5 Drill Move from 9T 1 to 9T 2 - 206 Bell Helicopter 6.2 hrs. @ $350		2,170.00
Fuel - 6.2 hrs.@ $22		136.40
		$2,306.40
July 18 Drill move using 206 Bell Helicopter		
Move from 9T 2 to 9T 3 - 4.9 hrs. @ $350		1,715.00
Fuel - 1.5 hrs. @ $22		33.00
		$1,748.00

Demobilization

Drill move out of Turnagain to Blue Sheep Lake using 206 Bell helicopter @ $350		
July 28 13.5 hrs. @ $350		$4,725.00
Fuel - 2 hrs. @ $22		44.00
		$4,769.00
July 29 7.8 hrs. @ $350		2,730.00
Fuel - 1 hr. @ $22		22.00
		$2,752.00

TOTAL HELICOPTER TIME CHARGED TO DRILLING $36,593.40

Diamond Drill Costs

(79-1, -90° NQ core)

Casing 0 - 4 = 4 ft. @ $19.55 (HW) per ft.	78.20	
0 - 6 = 6 ft. @ $18.55 (NW) per ft	111.30	189.50
Coring 4 - 500'= 496 ft. @ 17.55 (NQ core) per ft.	8,704.80	
500 - 926'= 426 " @ $18.80 (NQ) per ft.	8,008.80	16,713.60
		$16,902.10

(79-2, -90° BQ core)

Casing 0 -16 = 16 ft. @ 18.55 (NW) per ft.	296.80	
0 -26 = 26 ft @ 15.35 (BW) per ft.	399.10	695.90
Coring 0 -500 = 500 ft. @ 14.35 per ft.	7,175.00	
500 -1000 = 500 ft. @ 15.10 per ft.	7,550.00	
1000-1005 = 5 ft. @ 15.85 per ft.	79.25	14,804.25
		$15,500.15

(79-3, -90° BQ core)

Casing 0-16 = 16 ft. @ 15.35 (BW) per ft.	245.60	
Coring 10-198 - 188 ft. @ 14.35 per ft.	2,697.80	2,943.40
		$2,943.40

(79-4, -70° BQ core)

Casing 0 -14 ft. @ 15.35 (BW)		214.90
Coring 10 -500 = 490 ft. @ 14.35 per ft.	7,031.50	
500 -792 - 292 ft. @ 15.10 per ft.	4,409.20	11,440.70
		$11,655.60

Drilling	47,002.25	
Reaming Ice costs 181 man hrs.@ $15.05	2,724.05	$49,726.30

Charter Aircraft Expense

Camp Mobilization

6 trips by single engine Otter floatplane May 14/21 supplying all necessary fuel		5,990.40
Setting up camp June 1 - 2 Otter loads to Grave Lake - 100 miles south of Watson Lake and 1 Beaver load		922.20
Bell 206 helicopter and fuel into camp from Grave Lake @ $350 per hr.	- 9.9 hrs.	3,682.80

Air charter required to supply goods and services for camp.

June	9	Cessna	261.00	
	28	Otter	380.00	
July	4	"	380.00	
	8	"	380.00	
	9	Beaver	230.00	
	10	Otter	380.00	
	12	Beaver	230.00	
	14	Otter	380.00	
	17	"	380.00	
	21	"	380.00	3,381.00

Camp Demobilization

July 28/30 using 2 single engine Otters	6,185.80	
Total charter aircraft cost	$20,162.20	

Assays

14 molybdenum assays for chip samples @ $6.00	84.00	
32 tungsten " " " " and diamond drill core samples @ $9.00	288.00	372.00
34 soil samples analyzed for Mo @ $1.60	54.50	
34 " " " " W @ $3.00	102.00	156.40
Total assays and analyses		$528.40

Rental Equipment

Sperry Sun instrument to measure drill deflections	$1,313.84

Helicopter Time for work spent on Ram, May claims in mapping 1.4 hrs. @ $185 $259.00

ASSESSMENT - RAM, MAY, ELIZA CLAIMS

Eliza	1	72202	10 years	$2,000
	2	72203	10 years	2,000
	3	72204	10 years	2,000
	4	72205	10 years	2,000
	6	72207	10 years	2,000
May	1	71214	5 years	$1,000
	3	71216	5 years	1,000
	5	71218	5 years	1,000
	7	71220	5 years	1,000
	10	71223	5 years	1,000
	14	72197	10 years	2,000
Ram	101	233	10 years	3,800
	102	234	10 years	1,900
	103	235	10 years	1,900
	105	236	10 years	1,900
		Assessment applied Ram, May, Eliza claims		$26,500

RAM ASSESSMENT 15 - 20 CLAIMS

Summary

In August and September of 1979, clean up operations had to be performed in the Turnagain River area on the Ram 15 - 20 claims. While property had been drilled off in June and July of that year, further work had to be performed in area. All core boxes from holes drilled were brought to camp site and stored in winterized shack for safe keeping. Also gear was removed out of property and slung by helicopter to Blue Sheep Lake, from where all goods were taken to Watson Lake, Yukon, by float plane.

Location & Access

Ram 15 - 20 mineral claims are situated 162 km. south of Watson Lake, Yukon, just 2 km. north west of the confluence of the Turnagain and Cassiar rivers within the Liard Mining Division.

Access into the property is restricted to helicopter from nearest base, Watson Lake, Yukon.

Claim Data

Claim	Record No.	Date Staked	Expiry Date
Ram 15	27653	August 1, 1967	August 1, 1984
16	27654	" "	" "
17	27655	" "	" "
18	27656	" "	August 1, 1982
19	27657	" "	August 1, 1984
20	27658	" "	" "

Work Done

In June and July of 1979, 4 diamond drill holes had been put down on these claims with drilling amounting to 282m of NQ and 608m of BQ core.

For further information regarding the drilling of the Ram, May and Eliza claims, see additional assessment report for same submitted October 1979.

Helicopter Time

Bell 206 - Moving drill core and camp equipment for safety purposes. 12.9 hrs. @ $350 per hr. 4,515.00

Man Hours on Property

T. Liverton - UCEX staff geologist August 21, 23 and September 21 @ $120 per day	360.00	
D. Mayes - UCEX staff geologist August 21, 23 @ $120	240.00	
P. Levesque - assistant geologist August 21, 23 @ $60	120.00	720.00
Carried forward		$5,235.00

Brought Forward	5,235.00
B.C. Yukon Air	
Charter into Blue Sheep Lake 3 trips carrying goods out of property	760.00
Helicopter Fuel costs - 131 gals. JP-4 @ $1.34	175.54
Drafting	
Talisman Projects	365.00
	$6,535.54

Assessment to be applied as:

Ram 15	27653	5 years	$1,000
16	27654	5 years	1,000
17	27655	5 years	1,000
18	27656	5 years	1,400
19	27657	5 years	1,000
20	27658	5 years	1,000
			$6,400

STATEMENTS OF QUALIFICATIONS OF AUTHOR

STUART FRASER: Graduated from Dalhousie University, Halifax, Nova Scotia with B.Sc. Degree in Geology and Chemistry in 1973.

Experience

1973 - 1975:	Underground geologist with Granduc Operating Company in Stewart, B.C.
1975:	Summer's work with Union Carbide Exploration Corporation, Vancouver, working as exploration geologist in northern B.C.
1975 - 1977:	Mine geologist with Echo Bay Mines Ltd., Port Radium, N.W.T., supervising underground grade control, underground mapping, laying out diamond drill holes and core logging.
1977 to present:	Project geologist with Union Carbide Exploration Corporation working throughout Canada.

Diamond Drill Logs- Appendix

Area Tennigan R NTS 104 I/9E Property RAM, MAY, Eliza

Drill Hole No. 9T1 Long. _____ Lat. _____

Azimuth _____ Dip -90° at collar _____

Total Depth 282.3 metres Date Started June 18/79.

Page 1 of 17 Date completed July 5/79

Drilled by Amity Drilling Ltd Logged by S. FRASER

Vertical Scale 1:1500 Core SIZE NQ

	BLK	REC	%	α		Description	Sample	Lgth	VI	WO_3	Cu
0-1.2m						HW CASING.					
1.2 1.5						Limestone generally massive with chloritic partings. Banding @ 75° to core axis. (med - cs grained) much broken core at 1.5 meters.					
1.5 - 8.2						Dolomite Brownish - white (med to coarse grained) massive dolomite. Highly fractured, core, generally with good core recovery. 4.5 meters Tr scheelite.					

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Page 2 of 17

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							6.2 m fault zone (2cm) with manganese dendrites 6.4 m Tr scheelite. 8.0 quartz veining 1 cm thickness. 7.6 m banding 55° to core axes.					
5.2-11.4							Limestone greyish white to greenish white in color with chloritic alteration. med to cs grained. 10.1 m 0.5 cm quartz vein @ 45° to core. 11.4 m minor fault @ 45° to core having manganese staining.					
11.4-20.4							Dolomite med to cs grained 12.3 - 12.6 m quartz veining with dolomitic partings and vugs @ 15° to core. 12.6 - 12.8 chloritic alteration 13.5 - 14.4m quartz veining with minor dolomite filled vugs.					

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Page 3 of 17

Area TURNAGAIN R NTS 104/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 91

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							14.4 - 14.6 m chlorite alteration 14.6 - 14.7 m quartz veining. 14.7 - 15.8 minor limestone. 15.2 - 15.3 quartz veining @ 25° to Tr scheelite (cs grained) along contact. 16.1 - 16.2 quartz veining.					
16.4 - 17.8							Limestone sulphide staining 16.6 - 16.9 m Suture fractures common and quartz veining 17.2 - 17.8 metres.					
17.8 - 50.3							Dolomite 18.2 - 19.2 dolomite brecciated and highly fractured 19.2 - 21.3 weak suggestion of bedding @ 40° to core. 21.3 - 29.2 massive dolomite 28.3 - 31.5 m manganese alteration intense with 4cm friable cs sand at 28.6 indicating fault.					

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Page 4 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 91

BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						30.6 4 cm quartz vein 30.6 - 31.5 sulfide stained core at end of quartz vein and intense manganese staining. 31.5 - 31.7 quartz veining. 34.2 - 34.3 dolomite breccia. 35.1 - 35.4 intense manganese staining, with fault at 35.1 m. 36.3 quartz veining .6 m @ 65° to core. 39.0 Tr schistic. 44.2 fault 0.5 cm @ 20° to core. 47.9 - 48.8 highly fractured dolomite, minor banding @ 40° to core axes. 49.8 - 50.3 m fracture running subparallel to core.					

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Page 5 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
50.3 - 75.9							Schist greenish grey - greenish brown in color @ 60° to core. Traces pyrite in schist. 50.6 - 50.7 fault. 50.7 - 51.5 m highly fractured highly brecciated core. 51.8 m fracture running sub parallel to core. 54.3 - 55.9 Dolomite 55.7 - 55.9 quartz vein @ 60° to core. 58.6 minor fault < 0.5cm gouge in evidence. 73.4 - 73.5 quartz vein 73.7 good banding in schist @ 60° to core, fine grained py in evidence.					
75.9 - 76.3							Dolomite heavily cutured (healed) med - cs grained.					

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Page 6 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
76.3-76.4							Schist					
76.4-76.5							Limestone Massive - med to cs grained) sulphide staining.					
76.5-76.7							Schist					
76.7-78.							Limestone 77.7 quartz vein @ 15° to core.					
78.3-80.7							Schist					
80.7-81.4							Limestone Crystalline					
81.4-85.0							Schist 81.5 fault - much broken core having talcose texture.					

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Page 7 of 17

Area TURNACAM R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9TI

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
35-89.0m							Manganese alteration Blacks to blackish brown in color dolomite completely replaced by manganese. Minor quartz fragments and veggy in texture. fault at 85.9 meters.	29305 29307 29318	0.9 1.6 1.5		0.16 0.15 0.08	
89-92.8							Limestone Banded in part fetid. Well banded @ 20° to core at 90.5 metres; @ 50° to core at 92 meters. 89 - 89.9 fracture running sub-parallel to core having manganese staining.					
92.8-97.5							Dolomite Buff to greenish brown in color, med - cs grained. 94.0 1 cm gouge - fault Similarly at 94.6 metres.					

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Page 8 of 17

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, Eliza

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
97.5 - 98.9							Limestone Banded, as above.					
98.9 - 118.5							Dolomite manganese staining 103.3 - 105.3 m. 106.5 m minor fault @ 40° to core. 107.6 serpentine alteration @ 40° to core. 111.2 - 112.1 fracture running subparallel to core. 114.4 fault @ 40° to core. 100.9 Tr scheelite 103.9 " "					
118.5 - 120.5							Limestone Banded					
120.5 - 234 l.							Dolomite 124.6 - 125.3 quartz vein @ 30° to core.	29306 29316	0.4 1.0		0.16 0.26	

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Page 9 of 17

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, Eliza

Vertical Scale 1:1500

D.D.H 9T1

BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						128.9 - 129 m fault zone having manganese staining with dendrites. Massive buff to greenish white in color - med to cs grained - highly sutured fractured with minor vugs.					
						133.3 - 133.6 quartz veining @ 20° to core.					
						Broken core having manganese dendrites at contacts with dolomite.					
						139.4 - 140.2 fracture running subparallel to core.					
						143.7 - 144.1 quartz vein @ 30° to core. Barren.					
						148.1 - 148.3 quartz vein @ 30° to core.					
						151.3 Tr scheelite					
						151.6 Tr "					
						153.8 - 154.3 quartz vein, Barren Tr mineralization $CaWO_4$ along contact with dolomite.					

Union Carbide Exploration Corp.

Area TURNAGAIN R NTS 104I/9E

Vertical Scale 1:1500

Property RAM, MAY, ELIZA

D.D.H 9T1

BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						156.4 - 157.7 quartz vein @ 30° to core - Barren.					
						157.7 - 158 dolomite contorted highly fractured. Tr $CaWO_4$.					
						166.4 - 166.5 Quartz veining broken core - driller reported losing water and having rods drop 0.3 metres - fault zone.					
						165.5 Tr scheelite					
						167.3 2 cm quartz vein @ 50° to core.					
						168.2 - 169.0 brecciated dolomite - faulting.					
						169 minor chlorite alteration.					
						175 m fault with Tr scheelite.					
						176.4 - 176.8 chlorite alteration running subparallel to core. Tr scheelite in zone.					
						177.2 - 178.2 m fracture with veg running subparallel to core. Tr scheelite along fracture.					

Union Carbide Exploration Corp.

Page 11 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T1

BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						179.3 - 179.5 manganese staining within fractures. Tr scheelite.					
						182 - 182.1 intense manganese staining with oxidation, buggy gouge @ 20° to core.					
						182.9 - 183.0 m 0.1% WO_3 mineralization induced through faulting at 45° to core.					
						185.4 Tr scheelite.					
						187.1 fault @ 45° to core + tr scheelite.					
						191.9 - 192 m Tr scheelite.					
						193.5 Tr scheelite					
						196.8 m minor fault with micaceous mineral in evidence, @ 35° to core.					
						198.3 - 198.5 chloritic alteration with slickensides. Minor manganese staining and minor cavities present.					
						200.9 - 201 chloritic alteration with minor faulting @ 75° to core.					

Union Carbide Exploration Corp.

Page 12 of 17

Area TURNAGAIN R NTS 104I/6E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T1

BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						201.8 1 cm gouge in fault @45°.					
						202.1 - 202.2 m chloritic alteration with faulting @30° to core.					
						202.2 - 202.4 strong manganese staining and contorted core with faulting.					
						202.1 - 203.2 0.2% WO_3 with mineralization induced along fault. Fine to cs grained Scheelite.					
						208 m Tr scheelite in chloritic alteration.					
						210 m Tr $CaWO_4$.					
						211 - 211.1 m coarse grained Scheelite.					
						214.6 Tr Scheelite.					
						215.5 fault.					
						217.8 - 217.9 Broken core, Tr scheelite.					
						219.4 fault with manganese dendrites - Tr scheelite					
						Similarly Tr scheelite 220.3 - 220.5 m.					

Union Carbide Exploration Corp.

Area TURNAGAIN R NTS 104I/9E

Vertical Scale 1:1500

Property RAM, May, Eliza

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							224.1 - 224.3 Broken core slickensided running sub-parallel to core.					
							228.5 - 228.6 1% WO_3 in fractured dolomite. Mineralization fault induced.	29311	0.1		2.3	
							229.2 - 229.4 manganese staining. Tr scheelite.					
							232.3 - 234.6 m strong manganese staining - med - cs grained dolomite with veins. Heavily fractured. Tr scheelite along fault.					
234.6												
251.6							Limestone					
							Crystalline, cs grained fairly well banded, greyish white.					
							235.6 Tr scheelite mineralization					
							239.4 Tr "					

Union Carbide Exploration Corp.

Area TURNAGAIN R NTS 104I/9E

Vertical Scale 1:1500

Property RAM, May, Eliza

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							240.4-240.5 Tr scheelite.					
							241.7-242.2 Tr "					
							246.1-246.9 sulphide stained fracture running subparallel to core.					
							242.1-246.6 - argillaceous limestone, well banded @ 70° to core, med to cs grained, greenish grey in color.					
							244.7-244.9 Tr scheelite.					
251.6- 253.5							Siliceous Limestone very well banded, fine grained.					
							252.4-253.3m 1cm vein of calcite running subparallel to core.					
							251.9-252.2 Tr scheelite.					
253.5- 256.9							Calc-Silicate Hornfels very hard, fine grained well banded. Banding @ 75° to core					
							255.6m 2cm quartz vein @ 40°					

Union Carbide Exploration Corp.

Page 15 of 17

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, Eliza

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							to core. Hornfels highly fractured but healed. (0.1% WO_3)					
256.9												
260.6							Argillaceous Limestone well banded, thinly bedded @ 73° to core - med grained. 258.6m minor fault @ 50° to core, with gouge.					
261												
263.3							Dolomite Highly fractured and having minor fault at 261 metres.					
263.3							Limestone					
265.3							Banded, greyish white cs grained, banded @ 60° to core. 263.8 Tr scheelite.					
265.3							Calc-silicate Skarn					
270.7							garnet-diopside skarn well banded @ 65° to core - cs grained, very hard.	29317	0.1		0.07	
								29304	1.1		0.01	
								29314	0.8		0.26	
								29315	1.2		0.09	

Union Carbide Exploration Corp.

Page 16 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
270.7- 275.6							Argillaceous limestone Well banded, grey and green bands. 273.1 - 275 m highly fractured core, mainly running sub parallel to core. 274.6 - 274.7 sulfide stained. 275.8 - 276.3 Quartz vein @ 30° to core - Barren.	29308 29313	1.6 0.6		0.06 0.02	
275.6 277.1							Calc - silicate skarn Skarn interfingered with thin bands schist. Tr schecelite only.					
277.1- 280.9							Argillaceous limestone Well banded sulfide stained fracture at 277.2 - 277.5 m. 278.4 - 278.6 highly broken	29309 29310 29312	.25 1.2 0.5		0.02 0.02 0.07	

Union Carbide Exploration Corp.

Page 17 of 17

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T1

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							Sheared core. (Tr scheelite).					
							279.1 onlyside stained fault @ 30° to core.					
							279.9 - 280.4 Tr scheelite.					
280.9							Limestone					
282.3							Cryptalline, cs grained					
							281.4 - 282.3 - highly sheared core oxidized.					
							282.3 metres E.O.H.					
							S Jensen					

Drill Hole No. GT2 Long. 4135.46N Lat. 2809.43E (METRIC)

Azimuth _____ Dip -90° at collar _____

Total Depth 309.6 metres Date Started July 6/79

Page 1 of _____ Date completed July 16/79

Drilled by AMITY DRILLING LTD Logged by S. FRASER

Vertical Scale 1:1500 CORE SIZE BQ

	BLK	REC	%	α		Description	Sample	Lgth	VI	WO_3	Cu
0-5.4m						Casing.					
5.4-13.2						Schist Banded @ 25° to core fault at 6.7 metres from 6.7 - 9.7m schist is highly contorted with kink folding throughout interval.					
13.2-28.6						Limestone Banded @ 30° to core cs grained marble 23.1 - 23.3 metres minor manganese staining along fault running subparallel to core.					
28.6-33.9m						Dolomite greyish white, massive					

Union Carbide Exploration Corp.

Page 2 of 11

Area TURNAGAIN R NTS 1041/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							highly fractured but healed.					
33.9-38.5							Limestone As above, marbleized limestone grained becoming flatter with banding @ 15° to core axes. grey - black in color.					
38.5-38.9							Dolomite highly fractured and faulted along contacts. Oxidized core in part.					
38.9-39.9							Limestone massive highly fractured but healed, med grained sugary texture.					
39.9-49.75							Dolomite 40.2 m oxidized core - fault Dolomite is highly fractured throughout - with minor manganese staining.					
49.75-52.7							Limestone White fine grained calcite texture. massive.					

Union Carbide Exploration Corp.

Page 3 of 11

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
52.75-58.2							Dolomite highly fractured contorted core with major fault at 57.5 m - @ 30° to core. Probable Schist Ck Fault. Tr scheelite 54.7 m and 55.5 m.					
58.2-62.55							Limestone Marble texture, fairly well banded @60° to core. fault @ 58.8 m.					
62.55-77.3							Dolomite Dolomite having fine grained texture 62.5-68.6 m, becoming more brecciated and contorted. Faulting 68.8 m, 69.6 m @20° to core and @45° to core resp. Fault also at 70.7m. 75.8-76.2 m Dolomite fractured with oxidized core @30° - Tr scheelite at 75.4m					

Union Carbide Exploration Corp.

Area TURNAGAIN R NTS 104I/9E

Vertical Scale 1:1500

Property RAM, MAY, ELIZ

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
77.3- 80.92							Limestone massive, crystalline limestone. No banding observed.					
80.92- 89.72							Dolomite Dolomite highly contorted throughout interval, med grained greyish white. Fracturing throughout but parallel to core.					
89.72- 90.37							Limestone in part banded, grey black in color, highly fractured med grained.					
90.37- 95.3							Argillaceous Limestone greyish brown to greenish brown in color, core well banded @ 60° to core; partly contorted. Limestone having traces py.					
95 98.4							Limestone grey black in part banded limestone, med-cs grained. Trace py.					

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Page 5 of 11

Area TURNAGAIN R NTS 1041/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
98.4- 103.5							Argillaceous Limestone Faulting 99.3 m, 99.7 m, 99.8 metres and 4 cm thickness gouge at 100 metres running sub parallel to core. Highly contorted.					
103.5- 106.8							Crystalline Limestone Banded, mat contorted.					
106 111.3							Argillaceous Limestone contorted, in part brecciated as above (98.4 – 103.5) argilic alteration - soft argillite - fault zone.					
111.3 118.0							Limestone Limestone contorted with micro-folding, in part brecciated core. Basaltic dike 112.2 - 112.6 m.					
118.0- 161.75							Schist Well banded schist @ 60° to core, having chloritic partings. 154.4 - 155 m quartz vein having traces py. up to 2 cm thickness.					

Union Carbide Exploration Corp.

Page 6 of 11

Area TURNAGAIN R NTS 1041/1E

Property RAM, MAY, ELIZ

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
161.75-163.0							Calc-Silicate Hornfels Banded @ 40° to core, well banded. Mineralized with pyrite bands; greenish grey in color and fine grained.					
163-167.3							Schist Cordierite bearing schist 164.4- fault sub parallel to core. 166.5 " " " " with py. slickensided.					
167.3-169							Calc-Silicate Hornfels. Schist / Hornfels contact @ 45°. Barren.					
169-287.1							Schist 173 - 174.3 faulting in schist with much chloritic alteration. 174.5 - 175 faulting subparallel to core and having chloritic alt. 176 - 177 phyllitic texture. 177 - 177.8 m spotted texture. 178.8 - 179 chloritic stained quartz vein.					

Union Carbide Exploration Corp.

Page 7 of 11

Area TURNAGAIN R NTS 104I/9E

Property RAM, May, E/12c

Vertical Scale 1:1500

D.D.H 9T2

BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						Banding at 180 m @ 15° to core in schist.					
						183 - 184 massive quartz vein					
						185 m quartz vein .15 m thickness @ 40° to core, chloritized.					
						.2 m calc - silicate at 185.					
						198.8 - 199.3 quartz vein @ 60°					
						205.2 - 206.4 greenish - grey highly sericitized quartz rich zone, @ 45° to core.					
						213.3 - 214.3 quartz veining @ 30° to core - massive.					
						220 - 220.2 greenish white sericitized quartz zone (same as 205.2 - 206.4 m).					
						231.0 - 231.4 quartz veining.					
						232.0 - 232.1 " "					
						at 228 m schist is brown black in color, highly contorted.					
						229.8 - 230 fracturing throughout core.					
						230.3 chloritic alteration					
						230.7 4 cm quartz vein @ 25° to core.					

Union Carbide Exploration Corp.

Page 8 of 11

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T2

BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						230.9 - 231.2 quartz vein in part chloritized, minor Py.					
						232.1 - 232.4 quartz vein as above @ 70° to core.					
						232.9 5cm gouge - fault.					
						233 2cm band crystalline limestone.					
						234 - 234.9 m phyllite with fracturing throughout.					
						234.97 - 235.2 quartz vein + chloritic alteration 235.2 - 235.4.					
						236.2 - 6cm quartz vein with 4cm gouge and c5 grained py. @ 15° to core.					
						242.0 - 242.3 Quartz vein @ 75° to core. Barren.					
						244 m Schist Banded @ 60° to core.					
						254.2 5cm gouge @ 60° to core.					
						261.0 - 261.2 Calc - Silc hornfels @ 30° to core. Well Banded - minor py present.					

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Page 9 of 11

Area TURNAGAIN R NTS 1041/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							262.4 - 265 Basaltic dike with only 1 metre of core recovery - highly fractured.					
							264.2 - 266.2 thin bands generally less than a cm in schist. (Calc - silicate).					
							266.4 - 266.7 quartz veining @ 45° to core.					
							269.3 - 269.7 m @ 30° to core Calc - Silicate greenish grey in color - well banded.					
							271.8 - 272 Siliceous limestone with minor calc - silicate bands < 1cm thickness. Tr schecht at 269.8 m.					
							272 - 273.0 calc - Silicate banding.					
							275.1 - 283.3 cordierite bearing schist.					
							283.3 - 285.2 Calc - Silicate banding @ 60° to core.					
287.1 - 289.1							Limestone grey black med. grained banded					

Union Carbide Exploration Corp.

Page 10 of 11

Area TURNAGAIN R NTS 104 I/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T2

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							limestone. fault at 287.1 m along contact with schist (6 cm gouge). Minor fracturing only.					
289.1							Schist					
298.3							292.6 fault @ 80° to core. 1 cm gouge. 296.7 quartz vein @ 70° to core 1 cm thick. 296.9 fault 1/2 cm thickness @ 45° to core.					
298.3							Limestone					
298.7							grey black pyritic banded limestone. Banding @ 75° to core.					
298.7							Schist					
301.6							Schist not as well banded and becoming more silicic. 299.8 - 300.3 m calc. silc well banded @ 80° to core. 300.3 - 300.7 micro-folding in phyllites and fracture					

Union Carbide Exploration Corp.

Page 11 of 11

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T2

BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						in phyllites running sub-parallel to core.					
						305.7 - 306					
						Quartz eye schist greenish-grey, fine grained, quartz rich and having quartz eyes up to 3mm in diameter.					
						Similarly 307.3 - 308 m.					
						308 metres quartz vein 0.5 m thickness having 1% massive pyr.					
						308.2 - 309.6 m					
						Cordierite bearing schist.					
						309.6 metres E.O.H.					

Drill Hole No. 9T3 Long. _____ Lat. _____

Azimuth Vert. Hole Dip -90° at collar _____

Total Depth 60.3 METRES Date Started July 17/79

Page 1 of 2 Date completed July 18/79

Drilled by Amity Drilling Logged by S. Fraser

Vertical Scale 1:1500

	BLK	REC	%	∝		Description	Sample	Lgth	VI	WO_3	Cu
0-3.9						CASING					
3.9-7.16						Dolomite Highly fractured - buff in color - med grained with oxidized core at 6.4 metres.					
7.16-13.8						Basaltic Dike Dark brown in color having mottled texture and in part oxidized.					
13.8-14.1						Dolomite As above					
14.1-43.9						Basaltic Dike. As above					

Area Tumagain NTS 104 I/9E

Vertical Scale 1:1500

Property Ram, May

D.D.H 9T3

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							Fault at 14.4 metres with oxidized core. Similarily fault at 23.3 metres. Sample taken 14.7-14.9 metres.					
43.9-51.9							Dolomite Breccia. Buggy with manganese staining. Driller noted lost water at 50.3 metres.					
51.9-60.3							Basaltic Dike					
60.3							E.O.H					

Area TURNAGAIN R. NTS 104I/9E Property RAM, MAY, ELIZA

Drill Hole No. 9T4 Long. _____ Lat. _____

Azimuth 036° Dip -70° at collar _____

Total Depth 241.4 metres Date Started July 20/79

Page 1 of 10 Date completed July 25/79

Drilled by AMITY DRILLING LTD. Logged by S. FRASER

Vertical Scale 1:1500 METRIC CORE SIZE BQ

	BLK	REC	%	∝		Description	Sample	Lgth	VI	WO_3	Cu
0-3.0						CASING					
3.0-9.2						Basaltic Dike					
2-13.6						Crystalline Limestone grey white in color med grained. 13.2 fault running out parallel to core axes.					
13.6-41.9						Dolomite massive grey white med-cs grained.					
41.9-43.3m						Limestone Partially banded having good core recovery. Banded 90° to core.					
43.3-49.7						Dolomite as above 45.06 m fault minor gouge					

Union Carbide Exploration Corp.

Page 2 of 10

Area TARNACAIN R NTS 104I/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							@35° to core.					
							45.7 - 46.0 chlorite alteration.					
49.7 - 52.45							Limestone					
							Banded, med grained @60°					
							50.2 m minor fault @ 60° to core.					
							51.3 m minor faulting.					
52.45 - 54							Calc - silicate skarn					
							Cs grained garnet diopside skarn.	29300	1.55		0.01	
							53.0 m fracture running sub-parallel to core.					
								29301	1.0		0.01	
54.0 - 59.0							Argillaceous limestone					
							54.2 - 54.8 m strong fracturing sub parallel to core.					
							55.2 m 4 cm gouge - strong fault sub parallel to core.					
							57.0 - 57.2 m strong faulting @45° to core.					
							Banding well developed @45° to core axes.					

Union Carbide Exploration Corp.

Page 3 of 10

Area TURNAGAIN R NTS 1041/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
59-68.6							Limestone Massive to 63.7 m; Banded to 68.7 m. Strong fault 61.2-61.3 m, subparallel to core. 62.3-62.8 m fault zone Limestone strongly fractured, and having contorted fragmental texture. 63.5 m minor serpentinization @20° to core. Banded limestone @62° to core.	29583	0.9		0.01	
68.6-73.5m							Calc-silicate Hornfels Fault 69.3 m @45° to core - core oxidized. Quartz vein 69.4-69.5 m. More oxidized core at 70.06 m 70.2 quartz vein 4 cm thick running sub parallel to core. 70.5-72.7 oxidized broken core 73.1 quartz vein .2 m thick @45° to core. Hornfels is well banded, fine grained and very hard.	29584 29585 29586	2.0 2.1 .85		0.15 0.15 0.07	

Union Carbide Exploration Corp.

Page 4 of 10

Area TURNAGAIN R NTS 104 I/9E

Property RAM, MAY, ELSA

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
73.5-82.5							Calc - Silicate Skarn					
							coarse grained garnet-diopside skarn.	29587	2.25		0.02	
							fault with oxidized core at 74.2m					
							75.6 - 75.7m faulting with oxidized broken core.	29588	1.65		0.01	
							76.7 oxidized core, with gouge @ 45° to core.	29589	1.55		0.01	
							77.8 - 78.1 fault zone. oxidized core running 20 - 30° to core	29590	1.0		0.02	
							80.9 6.5cm oxidized core & gouge representing fault.	29591	1.0		0.01	
							82.1 - 82.3 faulting @ 80° to core	29592	1.5		0.01	
82.5-89.8							Banded Limestone					
							Banded limestone @ 70° to core.	29593	0.5		0.43	
							87.3m broken core & fault running sub parallel to core. (med grained schecht).	29594	2.0		0.04	
89.8-94.							Calc - Silicate Hornfels					
							very fine grained, as above.	29595	1.35		0.11	
								29596	1.95		0.09	
								29597	1.3		0.01	

Union Carbide Exploration Corp.

Page 5 of 10

Area TURNAGAIN R NTS 1041/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
94.4-98.4							Calc - Silicate Skarn as above. 95.2 - 96.0 oxidized fracture running sub-parallel to core. 96.3 2.2 cm gouge @ 30° to core. Calc - Silicate Banded @ 60° to core axes.					
98.4 100 m							Argillaceous Limestone Well banded @ 70° to core med grained, grey green in color Highly fractured with oxidized fractures 98.9 - 99.6 m 99.8 4 cm gouge in fault zone @45° to core.	29598 29599	1.9 2.6		0.06 0.06	
100 - 105.0 m							Calc - Silicate Skarn garnet - diopside skarn to 103.0 m 103.0 - 104.8 broken core oxidized (fracture zone running sub-parallel to core).					
105 105.8							Basaltic Dike grey black in color, fine grained (chill margin), cutting skarn @ 15°.					

Union Carbide Exploration Corp.

Page 6 of 10

Area TURNAGAIN R NTS 1041/9E

Property RAM, MAY, ELIZA

Vertical Scale 1: 1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
105.8-106.1							Calc - Silicate Skarn garnet - diopside skarn.					
106.1-107.5							Calc. Silicate Hornfels very fine grained, very hard. Having chloritic bands and traces pyrrhotite. (106.8-107m)					
107.5-14							Schist Contact with hornfels @(30°) 107.7 - 108.0 m broken oxidized core indicating faulting. also present brecciated quartz carbonate veining. Quartz vein 109.2 - 109.5 with oxidized core along contacts. 114.1 - 115.2 Calc - silc skarn. 135.3 - 135.5 Basaltic Dike @40° to core. Schist banded at @60° to core.					
144.0-151							Calc - Silicate Hornfels fine grained garnet - diopside hornfels with cs grained skarn zone 149.2 - 149.5,					

Union Carbide Exploration Corp.

Page 7 of 10

Area TURNAGAIN R NTS 1041/9E

Property RAM, May, Eliza

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	∝	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							153.5 - 153.8, 147.2 - 147.4.					
							Basaltic Dike					
							152.1 - 152.8 m.					
							Minor faulting observed along upper contact of dike.					
							Hornfels banded @75° to core.					
							Faulting 154.1 - 154.2 subparallel to core.					
							158.6 fault subparallel to core.					
159							Calc - Silicate Skarn					
159.6							garnet - diopside skarn having 10% quartz. Tr scheelite < .1%.					
159.6 - 163.6							Schist					
							Cordierite bearing schist.					
							162.5 - 162.6 fracture subparallel to core.					
							162.8 10cm quartz vein @10° to core with pyrite along upper contact.					
							Minor argillic alteration.					
63.6 - 164.6							Calc - silicate Skarn					
							garnet - diopside skarn - with coarse to fine grained disseminated scheelite - est 0.2% WO_3 - highly fractured.					

Union Carbide Exploration Corp.

Page 8 of 10

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
164.6-166.7							Calc - Silicate Hornfels Diopside rich hornfels with fracturing up to 166.4 m. Tr scheelite only.					
166.7-167.3							Calc - Silicate Skarn 0.11% WO_3 with fine grained disseminated scheelite throughout interval.					
167.3-16							Calc - silicate Hornfels approaching quartzite with 80% quartz.					
168.1-183.9							Schist as above. Basaltic Dike 171.9-178.9 @40° to core. Quartz veining 178.9 - 177.7 metres @ 40° to core. also qtz veining 181.6-182.2 m.					
183.9-187.8							Argillaceous Limestone quartz veining 185.6 - 186.5 186.5 - 186.7 faulting sub-parallel to core. Limestone is greyish black, dirty limestone med. grained.					

Union Carbide Exploration Corp.

Page 9 of 10

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T4

	BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
							186.7 - 187.8 basaltic dike running subparallel to arg. ls.					
187.8 - 192.8							Banded Limestone Cryptalline limestone, grey black in color, med to cs grained banded @ 60° to core. 191.3 - 192 metres becoming more silicified with minor quartz vein 4 cm thickness at 191.9 m.					
192.8 - 95.2							argillaceous limestone greenish grey well banded core with minor hematite streaks. 194.7 - 195.2 quartz vein @ 35° to core.					
95.2 - 08.6							Basaltic Dike @ 30° to core - contact.					
							Schist Banded @ 70° to core Basaltic dike 230.9 - 235.6 m @ 30° to core. 227.4 - 227.6 m fault gouge @ 15° to core.					

Union Carbide Exploration Corp.

Page 10 of 10

Area TURNAGAIN R NTS 104I/9E

Property RAM, MAY, ELIZA

Vertical Scale 1:1500

D.D.H 9T4

BLK	REC	%	α	FD	GL	Description	Sample	Lgth	VE	WO_3	Cu.
						234.4 fault zone having 10 cm gouge.					
						235.9-239.1 m quartz eye phyllite - greenish grey in colour med to cs grained.					
						Basaltic dike 230.9-235.6 m @ 50° to core.					
						224.8-225.4 graphitic schist.					
						241.4 E.O.H.					

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Certificate of Analysis

TO Union Carbide Corporation
930 - 800 West Pender Street
Vancouver, B. C. V6S 2V6

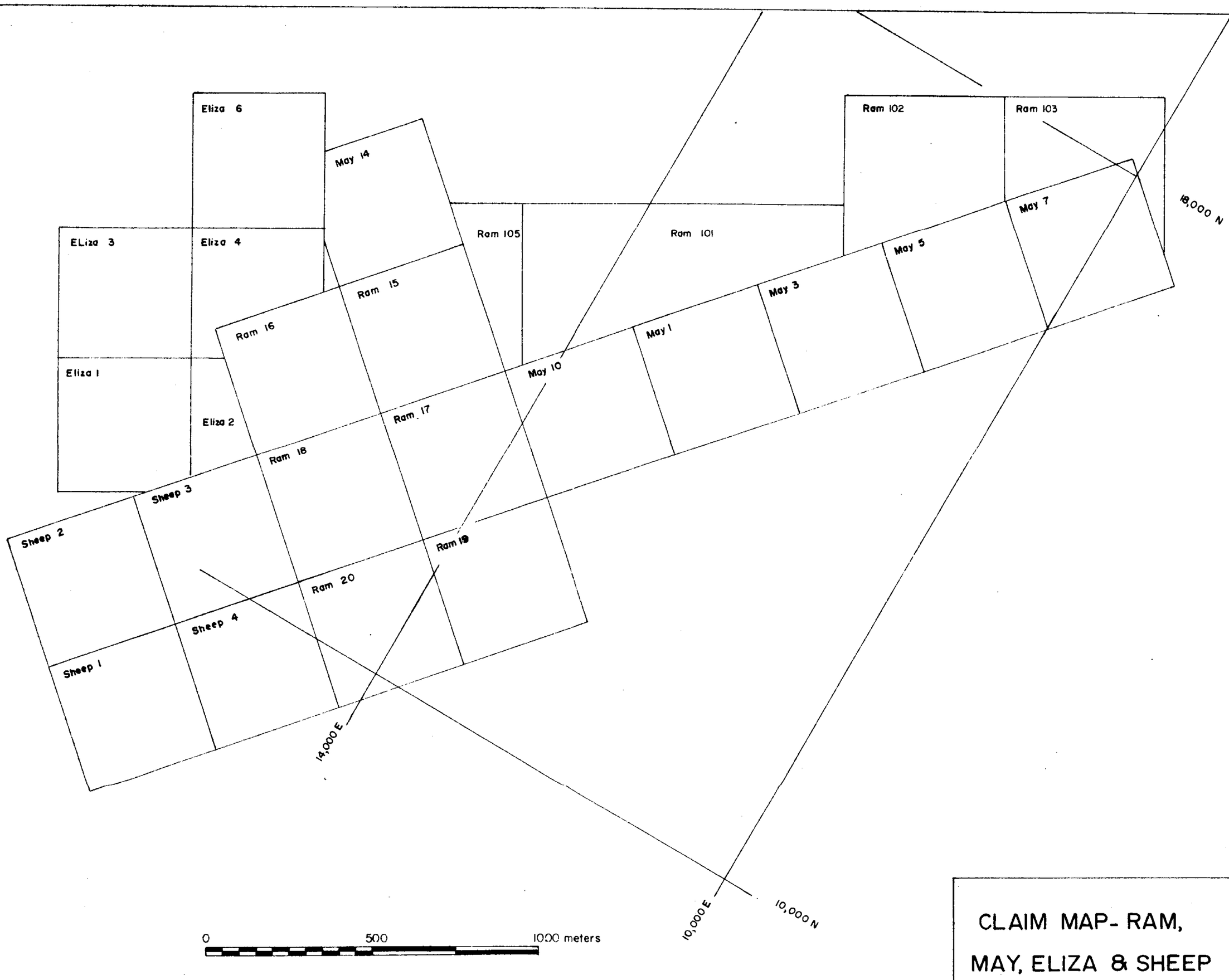
A29 - 581
July 30, 1979
PROJECT: 072

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	PERCENT Mo	PERCENT W	MARKED	PERCENT Mo	PERCENT W	MARKED	PERCENT Mo	PERCENT W
29276	0.001	0.04	29313	-	0.02			
29277	0.001	0.02	29314	-	0.21			
29278	0.001	0.01	29315	-	0.08			
29279	0.001	0.11	29316	-	0.01			
29280	0.001	0.09	29317	-	0.06			
29281	0.001	0.05	29318	-	0.07			
29282	0.001	0.28	29319	0.005	0.02			
29301	-	0.01	29320	0.045	0.03			
29302	-	0.01	29321	0.013	0.02			
29303	-	0.01	29322	0.017	0.03			
29304	-	0.10	29323	0.001	0.01			
29305	-	0.13	29324	0.018	0.02			
29306	-	0.13	29325	0.042	0.02			
29307	-	0.12						
29308	-	0.06						
29309	-	0.02						
29310	-	0.02				cc Watson Lake		
29311	-	1.83						
29312	-	0.06						

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

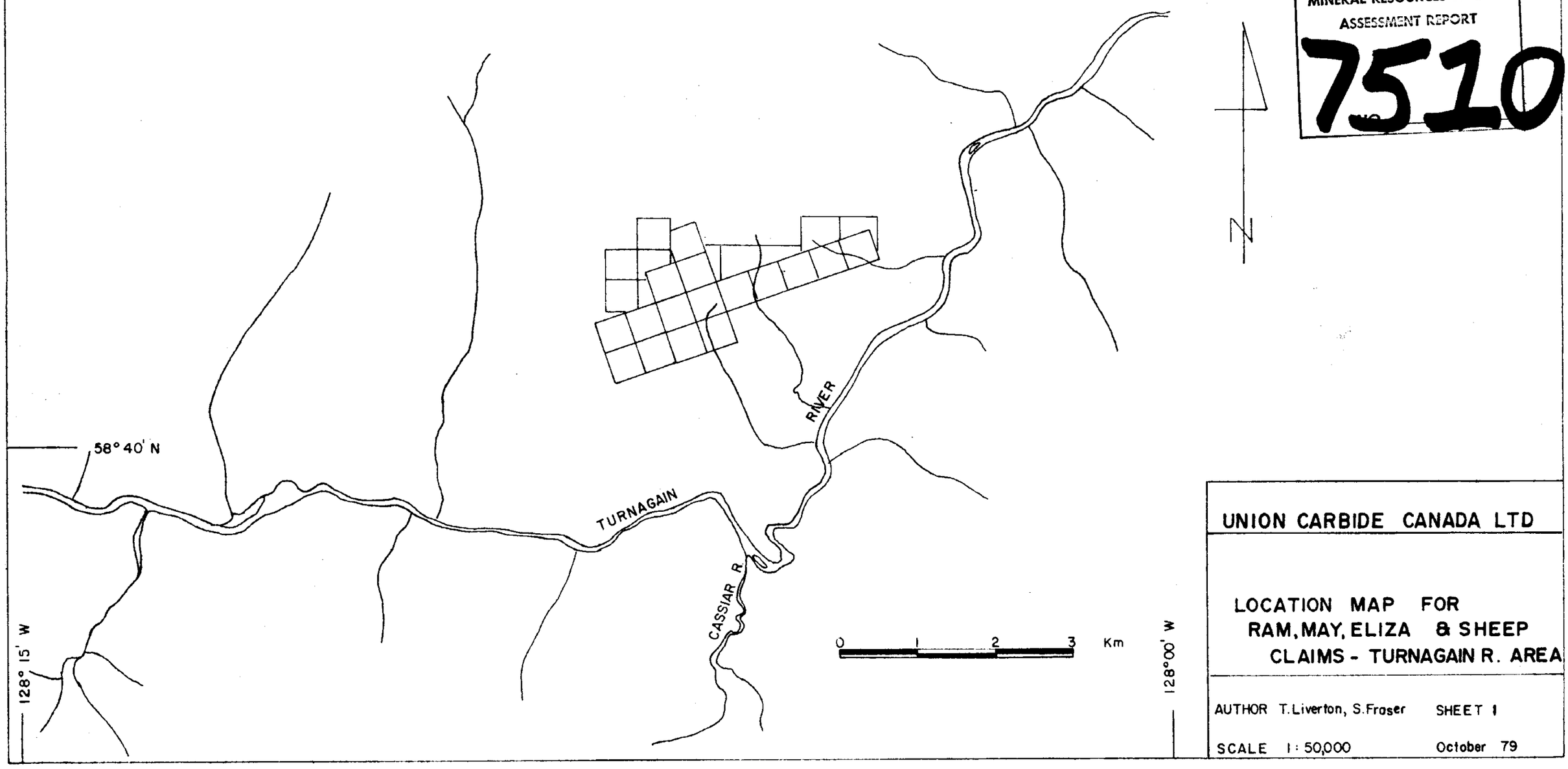
BONDAR-CLEGG & COMPANY LTD.
REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



CLAIM MAP- RAM, MAY, ELIZA & SHEEP

WITH MAP CO-ORDINATES

Scale 1:10,000

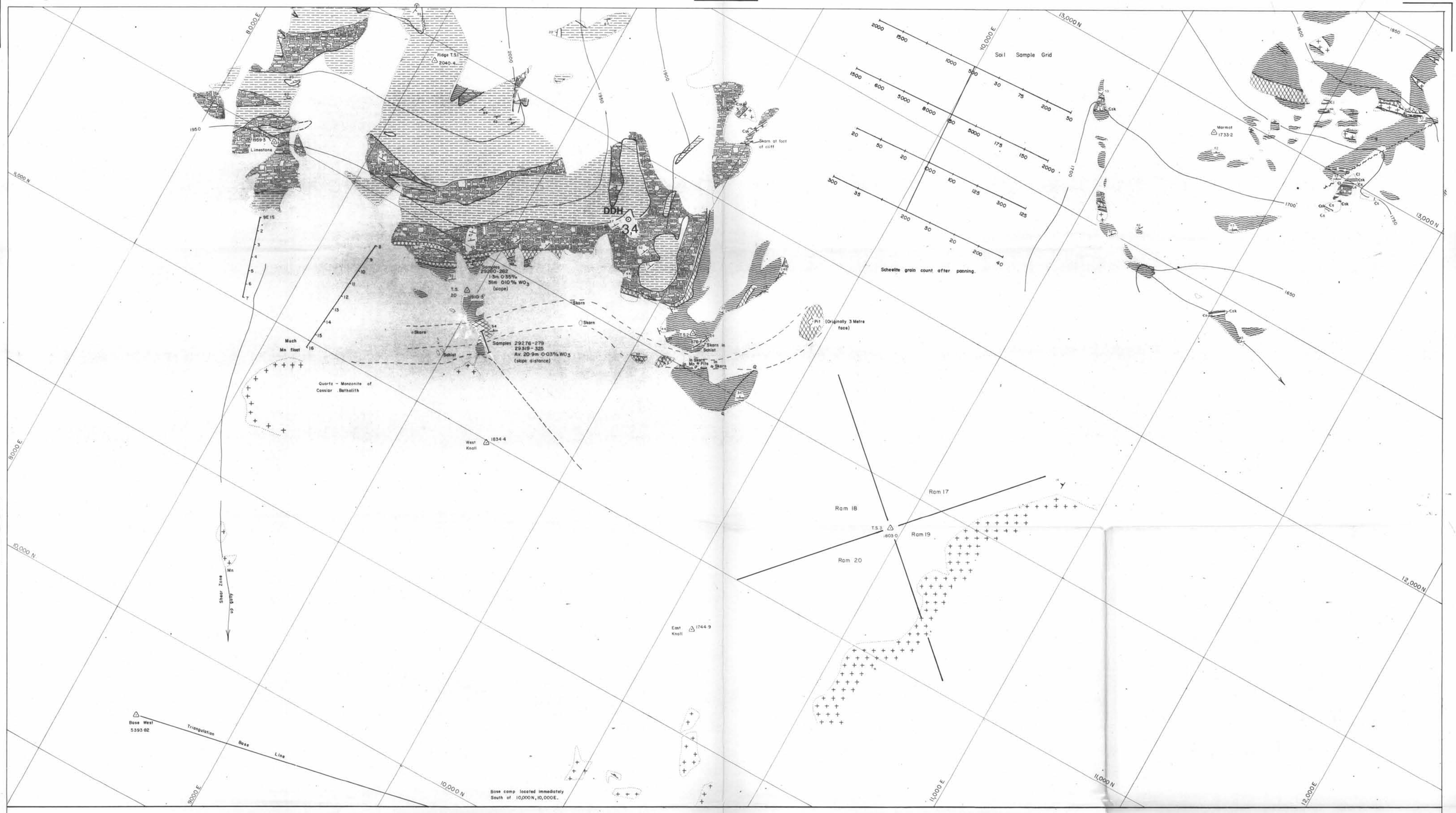


UNION CARBIDE CANADA LTD

LOCATION MAP FOR RAM, MAY, ELIZA & SHEEP CLAIMS - TURNAGAIN R. AREA

AUTHOR T.Liverton, S.Fraser SHEET 1

SCALE 1:50,000 October 79



Astronomical North
Grid North
28°58' approximately

Vertical and horizontal control was provided by a small network of triangulation stations. Mapping was by tacheometry with some limited compass, tape and clinometer traversing. Contours shown in Metric units (50metre interval).

0 100 200 300 400 500
FEET

0 100
METRES

1:1500 Scale

The L.C.P. for Ram 19 & 20 claims has been used as a triangulation station and is therefore accurately located with respect to topographic and geological detail. L.C.P.'s for Ram 101 & 102 are shown only approximately since they were located after mapping was completed and spotted from topography.

Mn denotes pyrolusite occurrences.

LEGEND

- Limits of rock exposure
- 1000 Topographic contours
- Gully
- Triangulation station
- 304 R Sample interval on horizontal or inclined surface
- 303 R Sample interval, vertical
- Corner post
- Strike & dip of bedding
- Strike & dip of foliation
- Plunge of fold axis
- Geological contact - accurate
- Geological contact - approximate
- Geological contact - inferred
- Fault - minor
- Fault - major thrust

LITHOLOGIES

Jurassic or Cretaceous
- Quartz veins (of minor abundance)
- Quartz - Monzonite and leucocratic dyke rocks

- Csk Calc - silicate hornfels with skarn bands

Lower Cambrian
- Cs Phyllite and quartz - muscovite - biotite schist
- Cd Dolomite and partially dolomitised limestone
- Cl Limestone (W.B. indicates "wavy - banded" ie. marly facies

Proterozoic ?
- Pd massive yellow dolomite

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7510

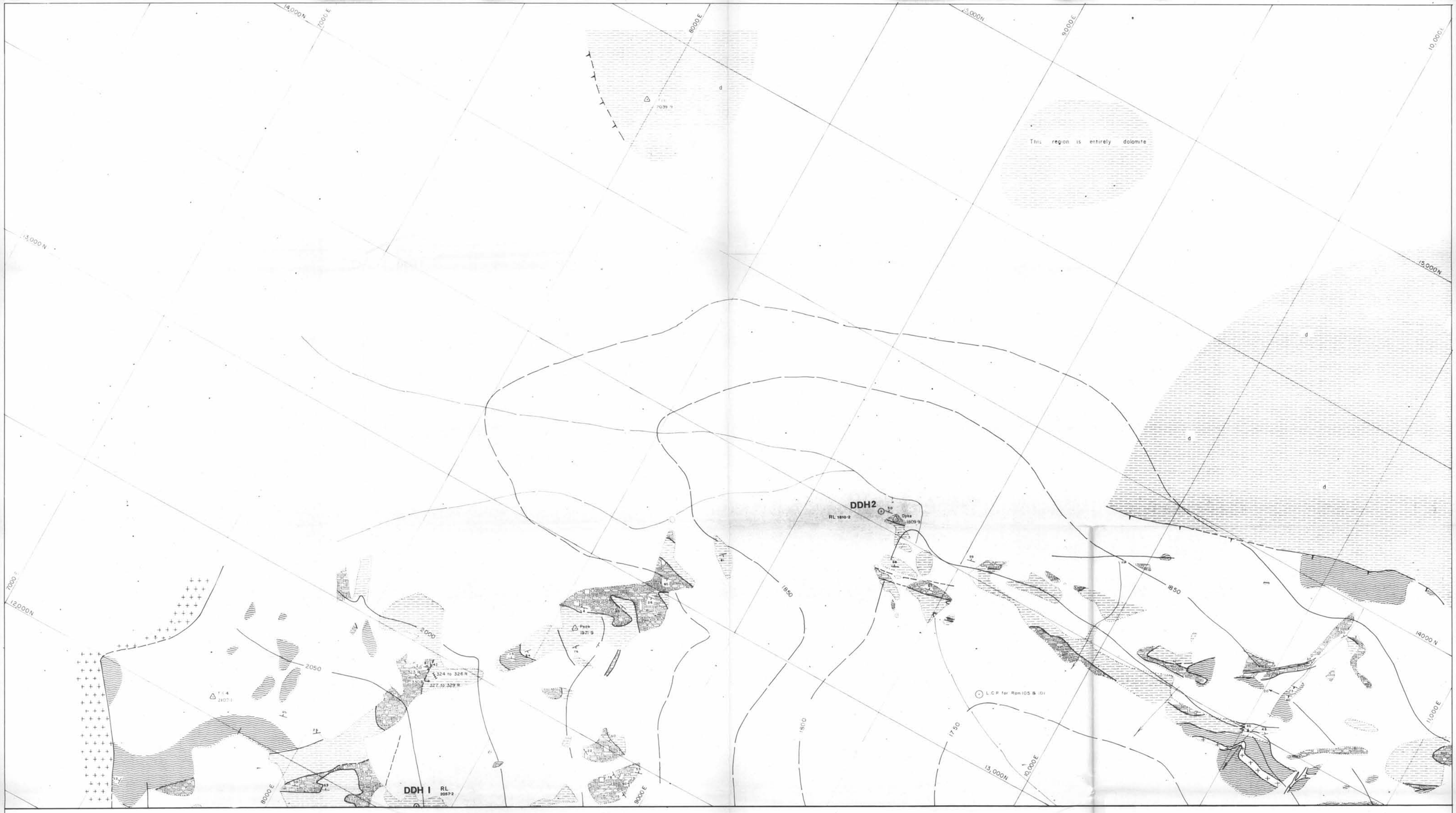
UNION CARBIDE CANADA LIMITED

RAM AND MAY CLAIMS

TURNAGAIN RIVER, LIARD MINING DIVISION, B.C.

GEOLOGY AND SAMPLE LOCATION

Scale : 1:1500 Metric	N.T.S. Sheet 104 I /9E
Additions made September 1979	T. Liverton, April 1978
Grid: 1977 Survey (Imperial Measure)	Sheet no. 2



LEGEND

- Limits of rock exposure
- Topographic contours (1000)
- Gully
- Triangulation station
- Sample interval on horizontal or inclined surface (304 R)
- Sample interval, vertical (303 R)
- Corner post
- Strike & dip of bedding
- Strike & dip of foliation
- Plunge of fold axis
- Geological contact - accurate
- Geological contact - approximate
- Geological contact - inferred
- Fault - minor
- Fault - major thrust

LITHOLOGIES

Jurassic or Cretaceous
- Quartz veins (of major abundance)
- Quartz - Monzonite and leucocratic dyke rocks

Lower Cambrian
- Calc - silicate hornfels with skarn bands
- Phyllite and quartz - muscovite - biotite schist
- Dolomite and partially dolomitised limestone
- Limestone (W.B. indicates "wavy - banded" ie. marly facies

Proterozoic ?
- massive yellow dolomite

0 100 200 300 400 500 FEET

0 100 METRES

1:1500 Scale

Astronomical North / Grid North
28°58' approximately

Vertical and horizontal control was provided by a small network of triangulation stations. Mapping was by tacheometry with some limited compass, tape and clinometer traversing.

The L.C.P. for Ram 19 & 20 claims has been used as a triangulation station and is therefore accurately located with respect to topographic and geological detail. L.C.P.'s for Ram 101 & 102 are shown only approximately since they were located after mapping was completed and spotted from topography.

7510

UNION CARBIDE CANADA LIMITED

RAM AND MAY CLAIMS

TURNAGAIN RIVER, LIARD MINING DIVISION, B.C.

GEOLOGY AND SAMPLE LOCATION

Scale: 1:1500 Metric	N.T.S. Sheet 104 I / 9E
	T. Liverton, April 1978
	Sheet no. 3

16,000N
11,000E
12,000E
17,000N
13,000E
14,000E
15,000N
17,000N
16,000N
11,000E
14,000N
12,000E
13,000E
15,000N
14,000E

Dolomite sub-outcrop over this region

Dolomite
2160·6

Schist
1958·2

Mirador
1990 ft

Contact
1894·5

delineated

not

exposures

Schist

1800

1850

1900

1750

1600

Approximate
position of L.C.P.
for Ram 102 etc

Stock
1630·5

1500

1450

Astronomical North
Grid North
28°58'
approximately

Vertical and horizontal control was provided by a small network of triangulation stations. Mapping was by tacheometry with some limited compass, tape and clinometer traversing

0 100 200 300 400 500
FEET

0 100
METRES

1:1500 Scale

The L.C.P. for Ram 19 & 20 claims has been used as a triangulation station and is therefore accurately located with respect to topographic and geological detail. L.C.P.'s for Ram 101 & 102 are shown only approximately since they were located after mapping was completed and spotted from topography.

LEGEND

- Limits of rock exposure
- 1000 Topographic contours
- Gully
- Triangulation station
- 304 R Sample interval on horizontal or inclined surface
- 303 R Sample interval, vertical
- Corner post
- Strike & dip of bedding
- Strike & dip of foliation
- Plunge of fold axis
- Geological contact - accurate
- Geological contact - approximate
- Geological contact - inferred
- Fault - minor
- Fault - major thrust

LITHOLOGIES

Jurassic or Cretaceous
- Q — Quartz veins (of minor abundance)
- Quartz - Monzonite and leucocratic dyke rocks

Lower Cambrian
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- Phyllite and quartz - muscovite - biotite schist
- Dolomite and partially dolomitised limestone
- Limestone (W.B. indicates "wavy-banded" ie. marly facies

Proterozoic ?
- massive yellow dolomite

7510

UNION CARBIDE CANADA LIMITED

RAM AND MAY CLAIMS

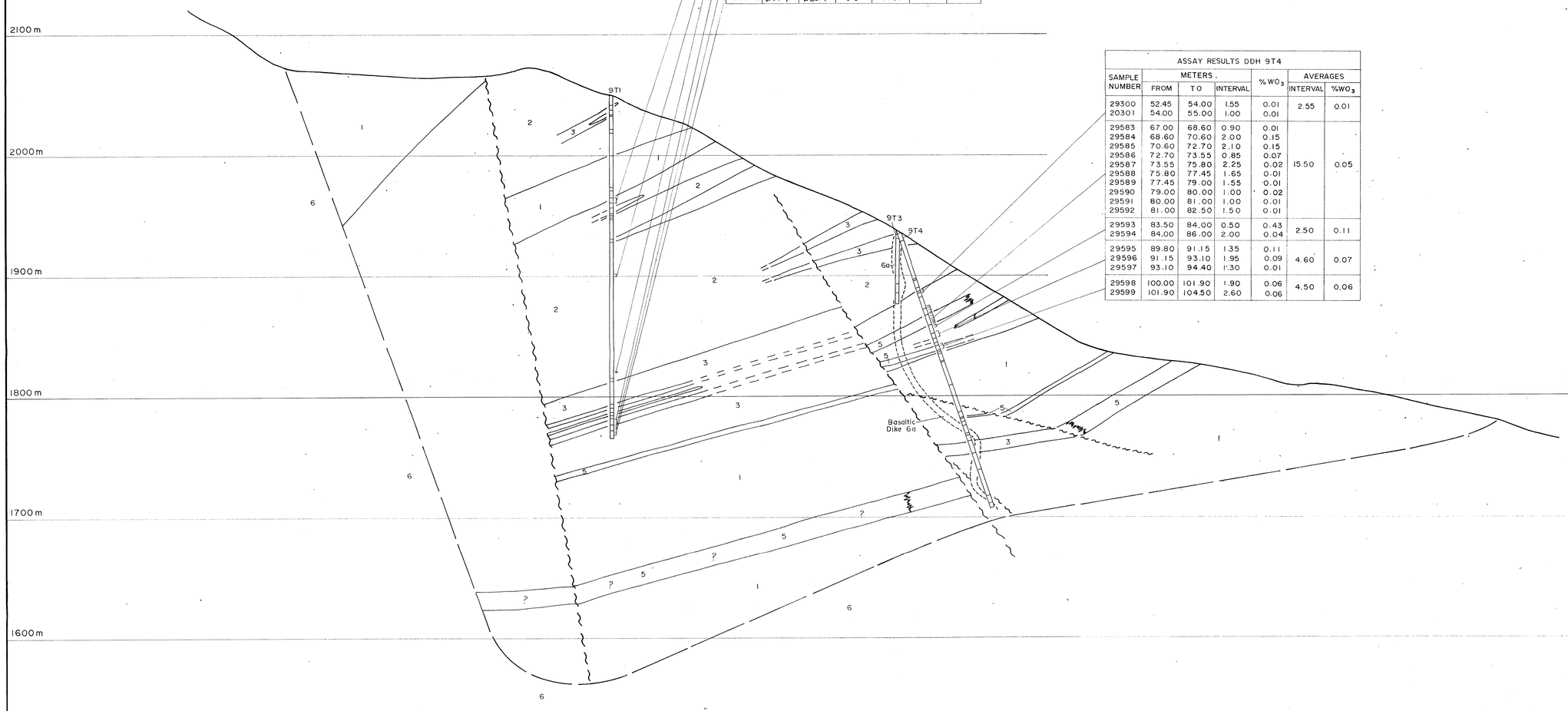
TURNAGAIN RIVER, LIARD MINING DIVISION, B.C.

GEOLOGY AND SAMPLE LOCATION

Scale: 1:1500 Metric	N.T.S. Sheet 104 I /9E
	T. Liverton, April 1978
	Sheet no. 4

ASSAY RESULTS DDH 9T1						
SAMPLE NUMBER	METERS			$\%WO_3$	AVERAGES	
	FROM	TO	INTERVAL		INTERVAL	$\%WO_3$
29305	85.0	85.9	0.9	0.16		
29307	85.9	87.5	1.6	0.15	4.0	0.08
29318	87.5	89.0	1.5	0.08		
29306	148.0	148.4	0.4	0.16	1.4	0.23
29316	148.4	149.4	1.0	0.26		
29311	228.6	228.7	0.1	2.30	0.1	2.30
29317	266.8	266.9	0.1	0.07		
29304	266.9	268.0	1.1	0.01	3.2	0.17
29314	268.0	268.8	0.8	0.26		
29315	268.8	270.0	1.2	0.09		
29308	273.4	275.0	1.6	0.06	2.2	0.04
29313	275.0	275.6	0.6	0.02		
29309	278.5	278.7	.25	0.02		
29310	278.7	279.9	1.26	0.02	1.9	0.03
29312	279.9	280.4	0.5	0.07		

ASSAY RESULTS DDH 9T4						
SAMPLE NUMBER	METERS.			$\%WO_3$	AVERAGES	
	FROM	TO	INTERVAL		INTERVAL	$\%WO_3$
29300	52.45	54.00	1.55	0.01	2.55	0.01
20301	54.00	55.00	1.00	0.01		
29583	67.00	68.60	0.90	0.01		
29584	68.60	70.60	2.00	0.15		
29585	70.60	72.70	2.10	0.15		
29586	72.70	73.55	0.85	0.07		
29587	73.55	75.80	2.25	0.02	15.50	0.05
29588	75.80	77.45	1.65	0.01		
29589	77.45	79.00	1.55	0.01		
29590	79.00	80.00	1.00	0.02		
29591	80.00	81.00	1.00	0.01		
29592	81.00	82.50	1.50	0.01		
29593	83.50	84.00	0.50	0.43	2.50	0.11
29594	84.00	86.00	2.00	0.04		
29595	89.80	91.15	1.35	0.11		
29596	91.15	93.10	1.95	0.09	4.60	0.07
29597	93.10	94.40	1.30	0.01		
29598	100.00	101.90	1.90	0.06	4.50	0.06
29599	101.90	104.50	2.60	0.06		



LEGEND

CRETACEOUS

- [6] Quartz Monzonite Stock
- [6a] Basaltic Dikes - age uncertain

PROTEROZOIC

- [5] Calc-Silicate Skarn - mainly Garnet - Diopside, pyr. Skarn not observed in core
- [4] Calc-Silicate Hornfels - well banded, highly siliceous Hornfels, usually barren
- [3] Limestone - banded, argillaceous, massive, fetid
- [2] Dolomite - massive

HADRINIAN

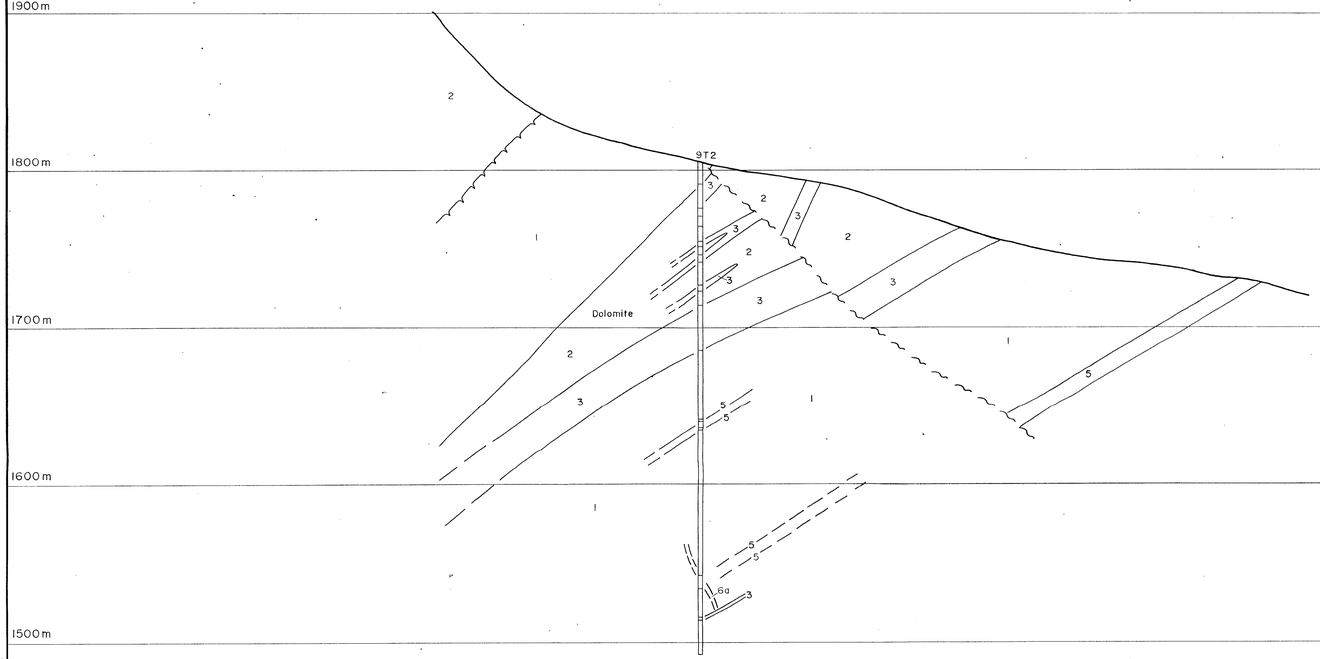
- [1] Schist, Phillite intercalcated with quartzite; mainly quartz
- [A] Quartz veining
- [B] Manganese alteration

UNION CARBIDE CANADA LIMITED
SUITE 930 - 800 WEST PENDER STREET, VANCOUVER B.C.

RAM, MAY, ELIZA CLAIMS
TURNAGAIN RIVER AREA - N.T.S. 104I/9E
VERTICAL SECTION AA' AZM 130° DDH's 9T1,3,4

50 25 0 Scale in Metres 50 100

AUTHOR(S) : S. FRASER	DRAFTED : Talisman Graphics	FIGURE NO : 1
SCALE : 1:1500	REVISED :	FILE NO :



LEGEND

CRETACEOUS

6 Quartz Monzonite Stock

6a Basaltic Dikes - age uncertain

PROTEROZOIC

5 Calc-Silicate Skarn - mainly Garnet - Diopside, pyr. Skarn not observed in core

4 Calc-Silicate Hornfels - well banded, highly siliceous Hornfels, usually barren

3 Limestone - banded, argillaceous, massive, fetid

2 Dolomite - massive

HADRINIAN

1 Schist, Phillite intercalcated with quartzite; mainly quartz

A Quartz veining

B Manganese alteration

UNION CARBIDE CANADA LIMITED
SUITE 930 - 800 WEST PENDER STREET, VANCOUVER B.C.

RAM, MAY, ELIZA CLAIMS
TURNAGAIN RIVER AREA - N.T.S. 104I/9E
VERTICAL SECTION DDH 9T2

50 25 0 Scale in Metres 50 100

AUTHOR(S) : S. FRASER	DRAFTED : Talisman Graphics	FIGURE NO : 2
SCALE : 1:1500	REVISED :	FILE NO :