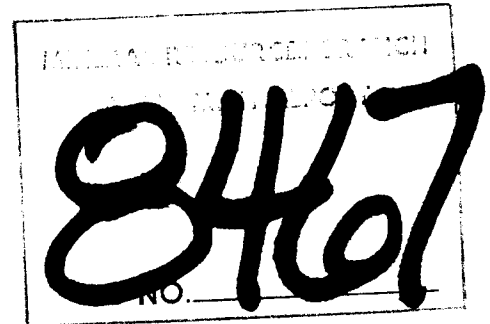


#712  
80-~~576~~-#8467

1979 PROSPECTING REPORT

FOR

SEVEN SISTERS PROJECT  
Omineca Mining Division  
N.T.S. 103 I/16E and 103 P/1E



Author: B.H. Whiting

Date: March, 1980

Description of Claims

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Date Recorded</u>
Fox 1-4	78	1879-1882	17 July, 1979
Tim 1-4	80	1883-1886	" " "
Ry 1-4	80	1887-1890	" " "
Rush 1-4	80	1891-1894	" " "
Fox 5	2	2114	19 Sept., 1979

Latitude:  $54^{\circ} 55'$  to  $55^{\circ} 2' N$  Longitude:  $128^{\circ} 6'$  to  $128^{\circ} 14' W$

Operator: Cassiar Asbestos Corporation Limited

SEVEN SISTERS PROJECT - 1979

Omineca Mining Division

N.T.S. 103 I/16E abd 103 P/1E

B.H. Whiting

March, 1980

SUMMARY

The Seven Sisters project consists of a 320 unit claim group which covers the Seven Sisters Peaks northeast of Terrace, British Columbia. A granodiorite stock, part of the Coast Intrusive Complex, intrudes Bowser Group Sediments and forms the core of the Seven Sisters Peaks. Geochemical samples taken from this area yield interesting values in tungsten, molybdenum, and copper, making it a target for porphyry deposit exploration.

The 1979 prospecting and sampling program is described in this report and a geological mapping program has been recommended for the 1980 exploration season.

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<u>Figure No.</u>	<u>Description</u>	<u>Location</u>
1	Location Map	After p. 2
2	Claim Map	After p. 3
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Plate No.

1	Photograph of the Seven Sisters Peaks	Page 1
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LIST OF APPENDICES

I	Geochemical Results
II	Statement of Qualifications
III	Statement of Costs

1. INTRODUCTION

When the British Columbia Government released the results of their Accelerated Geochemical Survey RGS-1-1978 and RGS-2-1978 in the summer of 1979, attractive values of tungsten led to the staking of 320 units covering the Seven Sisters Peaks in the Terrace area.

The claim blocks cover the peaks and include four older mineral occurrences on the south slopes in Bowser Group sediments and one molybdenite occurrence to the north in the intrusive stock which forms the core of the peaks.

In 1979, a helicopter supported prospecting and sampling program was carried out by Cassiar Asbestos Corporation Limited. This program showed that mineralization in talus and in situ originates within the granodiorite intrusive and a more comprehensive program has been planned for 1980.

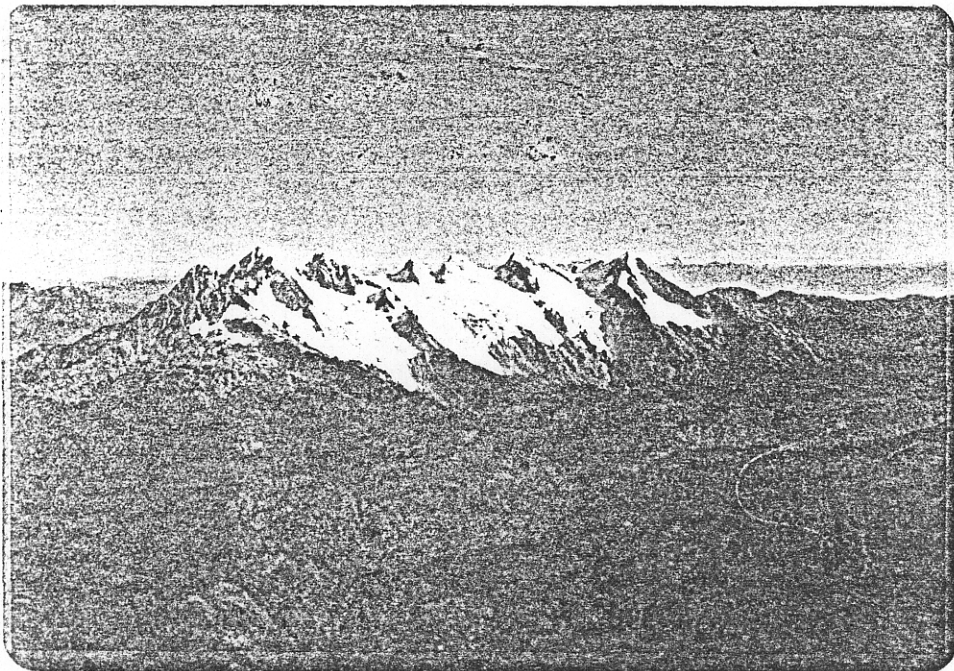


PLATE NO. 1 - Photograph of the Seven Sisters Peaks, illustrating the rugged topography and snow/ice coverage of the area.

2. LOCATION AND ACCESS

Latitude            54° 55' - 55° 02' N  
Longitude           128° 06' - 128° 14' W

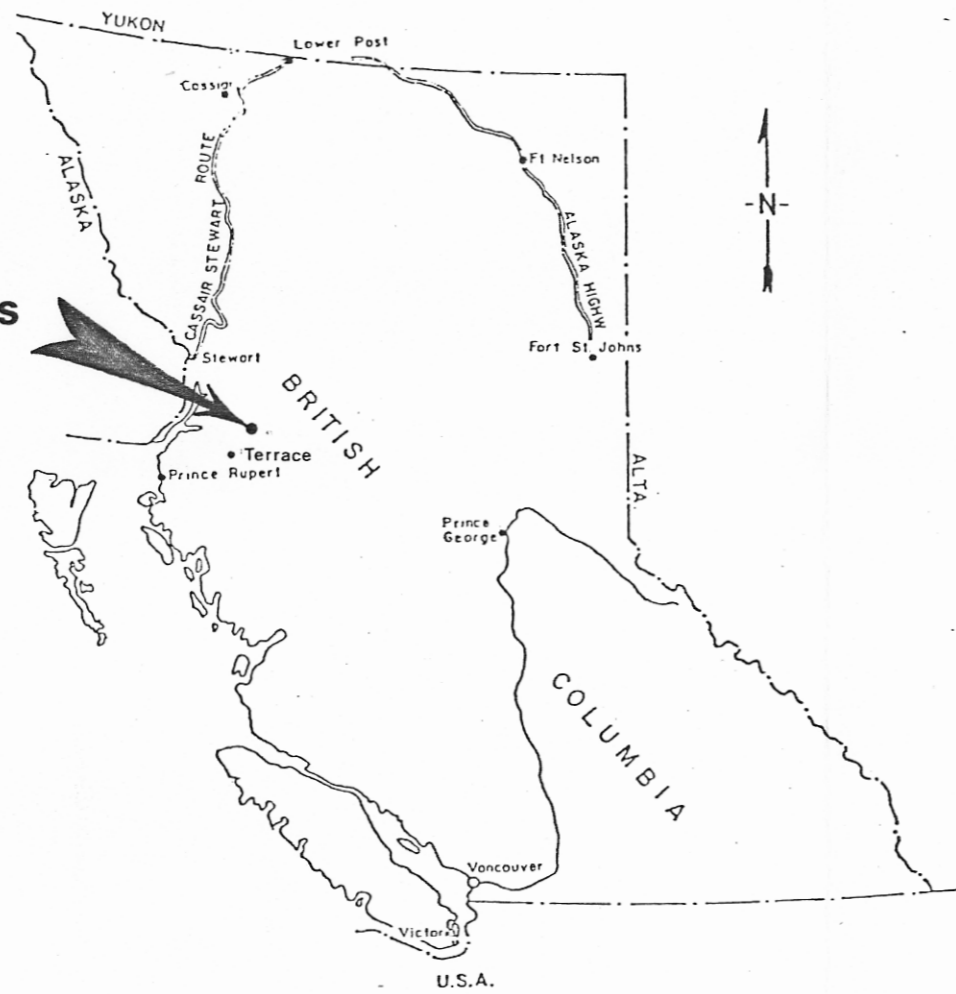
N.T.S. 103 I/16E & 103 P/1E

The Seven Sisters project, consisting of the Fox, Ry, Tim and Rush claim groups, is located on the Seven Sisters Peaks 59 Km (37 miles) northeast of Terrace, B.C.

The mineralized showings on the south side of the property are accessible by four-wheel-drive vehicle, approximately 13 Km (8 miles) from Highway 16.

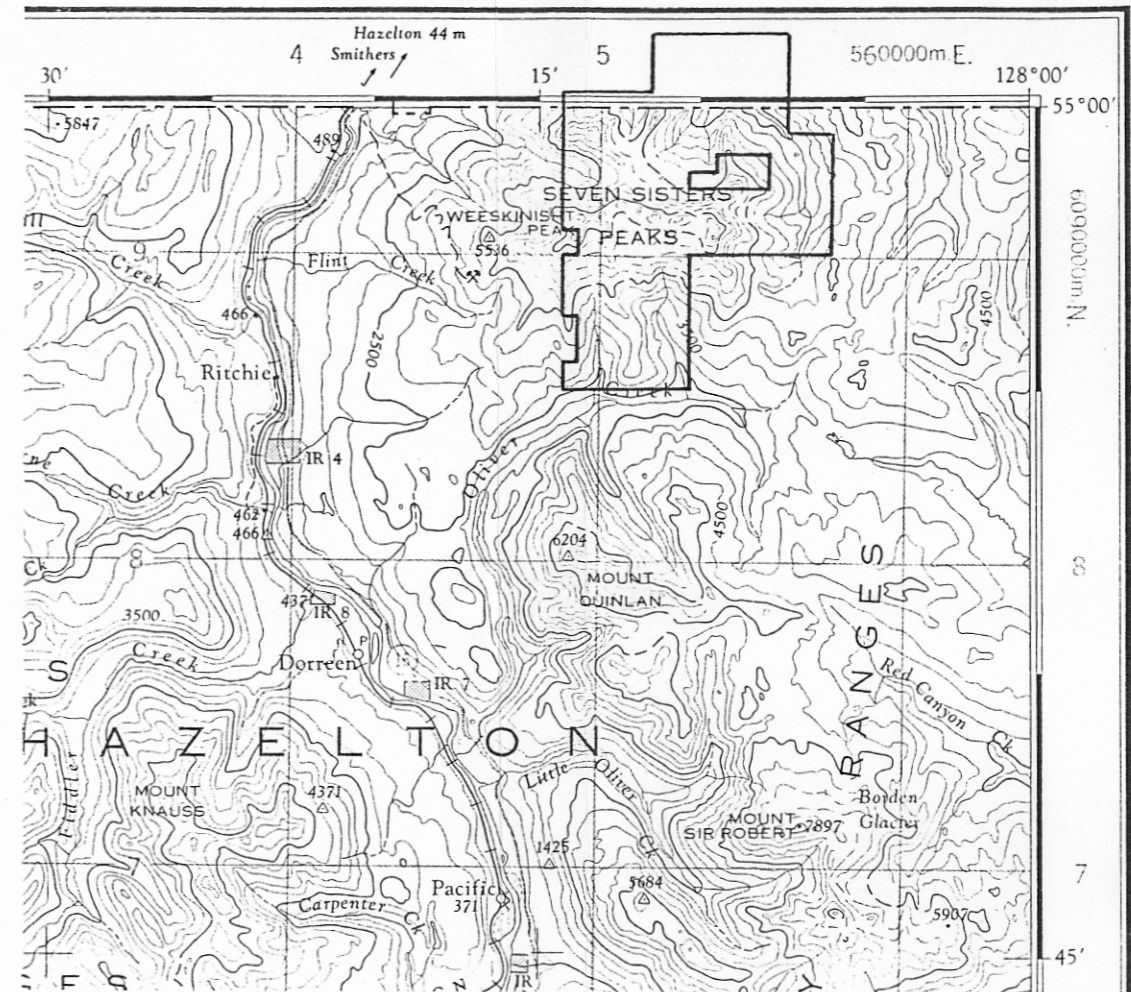
Most of the property must be reached by helicopter. This area is serviced by Okanagan Helicopters Limited based in Terrace (25 minutes flying time).

**SEVEN SISTERS PROJECT**

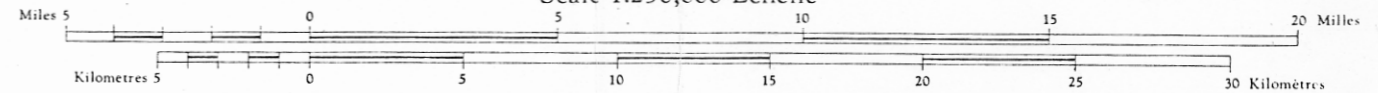


EDITION 1

103-I



Scale 1:250,000 Échelle



CASSIAR ASBESTOS CORPORATION LIMITED

SEVEN SISTERS PROJECT

LOCATION MAP

MINERAL RESOURCES BRANCH

8467

Date: March, 1980

By: B.H. Whiting

Scale 1:250,000

Figure No. 1

3.

DESCRIPTION OF CLAIMS

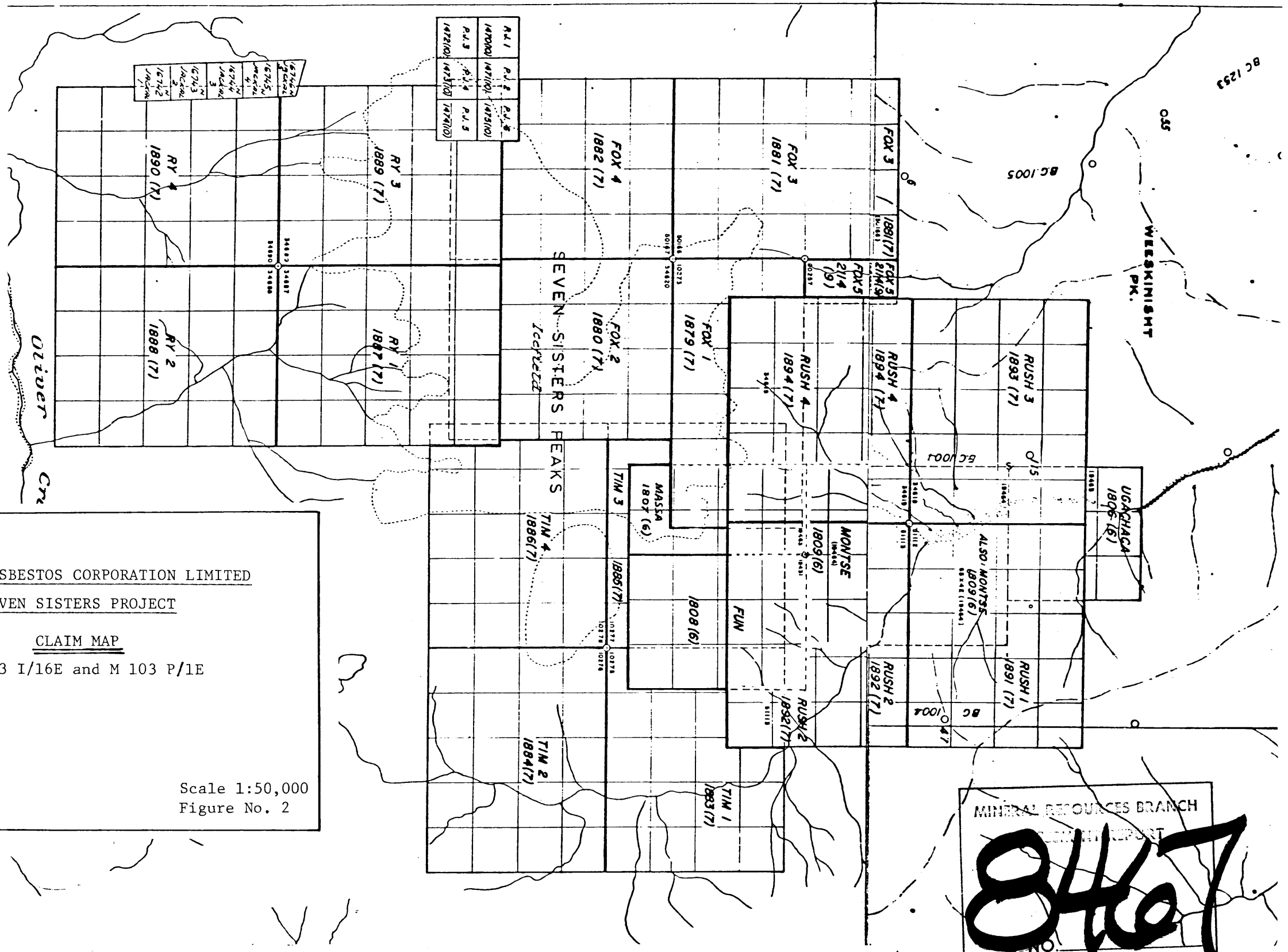
<u>Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Date Recorded</u>
Fox 1	18	1879 (7)	17 July, 1979
Fox 2	20	1880 (7)	" " "
Fox 3	20	1881 (7)	" " "
Fox 4	20	1882 (7)	" " "
Tim 1	20	1883 (7)	" " "
Tim 2	20	1884 (7)	" " "
Tim 3	20	1885 (7)	" " "
Tim 4	20	1886 (7)	" " "
Ry 1	20	1887 (7)	" " "
Ry 2	20	1888 (7)	" " "
Ry 3	20	1889 (7)	" " "
Ry 4	20	1890 (7)	" " "
Rush 1	20	1891 (7)	" " "
Rush 2	20	1892 (7)	" " "
Rush 3	20	1893 (7)	" " "
Rush 4	20	1894 (7)	" " "
Fox 5	2	2114 (9)	19 Sept.. 1979
Total	320 units		



1031/16E

5

5506'

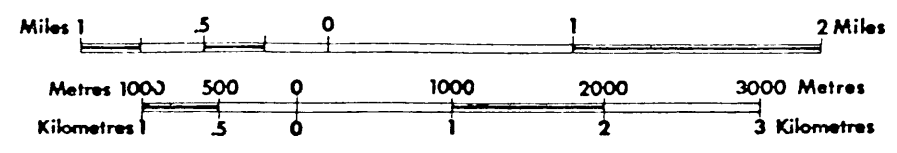


CASSIAR ASBESTOS CORPORATION LIMITED  
 SEVEN SISTERS PROJECT

CLAIM MAP  
 M103 I/16E and M 103 P/1E

Date: April, 1980  
 By: B.H. Whiting

Scale 1:50,000  
 Figure No. 2



MINERAL RESOURCES BRANCH  
 CLAIM REPORT  
 [Handwritten signature]

4. HISTORY OF THE PROPERTY

The Seven Sisters property, consisting of 320 units, includes several old prospects to the south and one prospect to the north of the main peaks.

4.1 Big Oliver (Minfile No. 103I-J128) first appears in the BCDM Minister of Mines Annual Report for 1929. Very little work was carried out on the two small showings which possessed trace gold and sparse amounts of sphalerite and chalcopyrite. The Big Oliver showing is on the Ry-2 claim.

4.2 Margarite (Minfile No. 103I-J-129) also appears in the BCDM MMAR for 1929. The two showings assayed trace gold and silver but no copper. The Margarite showing is on the Ry-4 claim.

4.3 Rega (Minfile No. 103I-J149). The original Rega 1-33 claims were operated by Magnetron Mining Limited of Vancouver.

In 1968, the surface workings were surveyed and electromagnetic and magnetometer surveys were conducted on Rega 1 to 4 claims. Two adits, total length of 18.3 metres (60 feet) were driven.

In 1969, 16 line-kilometers (10 line-miles) of magnetometer survey was conducted on Rega 1, 2, 3, 18 and 23 claims. A 30.5 metre (100 foot) trench was bulldozed and an X-ray hole of 22.6 metres (74 feet) was drilled. (See Appendix III).

In 1971, an Aeromagnetic Survey of the Rega, Nillo, Mag and Jackal claims was conducted. (See Appendix IV).

In 1972, a Gravity Survey of the Rega, Nillo, Mag and Jackal claims was conducted. (See Appendix V).

The Rega claims are now part of the Ry-3 claim.

4.4 Mag (Minfile 103I-J150). These claims were in two groups 3.2 kilometers (2 miles) apart. The western portion had surface workings which were mapped; a 3 metre (10 foot) long trench was dug and 9.6 line-kilometers (6 line-miles) of magnetometer survey was carried out. This work was performed by Magnetron Mining Limited in 1969. The Mag showing is on the Ry-4 claim.

The 1971 and 1972 programs were the same as for 4.3 Rega.

4.5 Jackal - Caledonia - Waverly (Minfile 103I-J055) is immediately adjacent to the west side of Ry-4 claim. It was discovered in 1929 and was held by M. Orr, H. MacDonald and associates. In 1929, there was a 10 metre (30 foot) trench dug to expose a vein which yielded good silver, lead and zinc values and could be traced along the surface for 183 metres (600 feet).

In 1968-69, Magnetron Mining Limited took over this mineral occurrence. 11 line-kilometers (7 line-miles) of magnetometer survey were conducted on the Jackal 4 and 5 claims. Nine bulldozer trenches totalling 378 metres (1,329 feet) were dug through overburden and 3,363 square metres (36,200 square feet) of bedrock was exposed. Five trenches totalling 31.7 metres (104 feet) were cut in bedrock. Eight X-ray holes totalling 132 metres (434 feet) were diamond drilled.

The 1971 and 1972 programs were the same as for 4.3 Rega.

4.6 Molybdenite (Minfile 103I-J056). To the north of the Seven Sisters Peaks, on the Rush 4 claim, is a molybdenite occurrence in granitic rocks. No recorded work is available for this occurrence.

The Geological Survey of Canada released Memoir 329 in 1964. This memoir covers the geology of the Terrace map area (103I/E $\frac{1}{2}$ ) by S. Duffell and J.G. Souther. Map 1136A, accompanying this report, was compiled from 1953 to 1955.

In 1978, the British Columbia Ministry of Energy, Mines and Petroleum Resources conducted a silt sampling program which included 24 samples from the Seven Sisters Peaks area. The results of this program were released in 1979 as BCDM Accelerated Geochemical Survey RGS-1-1978 (103I and part of J) and RGS-2-1978 (103 P and part of O).

5. WORK CONDUCTED IN 1979

The 1979 release of information on the BCDM Accelerated Geochemical Survey RGS-1-1978 and RGS-2-1979 revealed several anomalous drainages high in tungsten, originating from the granitic pluton which forms the core of the Seven Sisters peaks. The highest value obtained was 120 ppm tungsten in sample 785562.

This led to the staking of the Fox 1-4, Rush 1-4, Ry 1-4 and Tim 1-4 claims between 22 June and 27 June, 1979. Staking was performed by Seamus Young of Donegal Developments Limited for Cassiar Asbestos Corporation Limited. Total claim units staked - 318.

During August and September, 1979, W.E. Lumley and R. Bujas, under the direction of D.R. Budinski, conducted basic prospecting and geochemical sampling. Sixty-one soil samples were taken and tested for copper, lead, zinc, silver, molybdenum and tungsten. Twenty rock samples were taken and tested for copper, lead, zinc, silver, molybdenum, tungsten and a few were tested for gold.

An additional claim, Fox 5, was staked on 19 September, 1979 by W.E. Lumley for Cassiar Asbestos Corporation Limited. This consisted of 2 units, bringing the total to 320 units.

## 6. GEOLOGY

### 6.1 Regional Geology

The regional geology consists of Upper Jurassic and Lower Cretaceous Bowser Group sediments which have been intruded by an Upper Cretaceous or later Coast Intrusive Stock. Near the stock, the sediments are sharply crenulated and deformed. Some faults and fractures in the Bowser Group contain pyrite (FeS) and pyrrhotite ( $\text{Fe}_{1-x}\text{S}$ ) with minor amounts of galena (PbS) and sphalerite (ZnS). The pyrrhotite and pyrite carry minor amounts of gold, and the galena carries minor amounts of silver.

The Bowser Group sediments consist of a series of marine and fresh water shales, argillites, greywackes, sandstones and conglomerates with minor tuffs toward the base. Strata can vary from a few centimeters to over a hundred metres thick. Some argillaceous beds contain either marine fossils or plant remains. Deposits of coal and carbonaceous material are common.

The intrusive stock is part of the Coast Intrusive Complex and has been listed as granodiorite of early Tertiary age by the G.S.C. on their map 1385 A.

### 6.2 Geology of the Claim Groups

The intrusive stock and surrounding deformed sediments have not been substantially mapped and subdivided. The extent of glacial cover and the extreme topography may hinder effective mapping.

Most of the showings mentioned in section 4 "History of the Properties" lie in Bowser Group sediments as lenses and veins.


REGIONAL GEOLOGY

LEGEND


Adapted from G.S.C. Map 1136A

QUATERNARY


Pleistocene and Recent

 Sand, gravel, clay, alluvium


UPPER CRETACEOUS or LATER


 Coast Intrusions - Undifferentiated:  
granodiorite, diorite, quartz diorite, quartz monzonite,  
adamellite, granite, gabbro


UPPER JURASSIC and LOWER CRETACEOUS



 Bowser Group - Greywacke, conglomerate, argillite,  
minor tuff.


LOWER AND MIDDLE JURASSIC


 Hazelton Group - Andesite, basalt, rhyolite, dacite.


 Hazelton Group (Lower) - Andesite, breccia, tuff, greywacke,  
argillite.

 Fault

  Fossil Locality (leaves, shells)

 Bedding

 Anticline

 Syncline





7. GEOCHEMISTRY

Sixty-one soil and silt samples, and twenty rock samples, were taken during the 1979 program. A statistical comparison has been made between the soil samples and the results from the British Columbia Department of Mines Accelerated Geochemical Survey R.S.G.-1-1978. This has been tabulated on the following page.

The rock samples varied considerably with the following as the highest and mean values for each element.

<u>Element</u>	<u>Highest</u>	<u>Mean</u>	
Gold (Au)	0.005	0.001	ounces/ton
Silver (Ag)	1.98	0.56	ounces/ton
Copper (Cu)	1.36	0.44	percent
Molybdenite (MoS <sub>2</sub> )	4.21	0.309	percent
Lead (Pb)	0.44	0.08	percent
Zinc (Zn)	3.10	0.32	percent
Tungsten (W)	0.57	0.08	percent

Note: All of the rock samples were taken from around the intrusive stock and not from the south side of the peaks where the old prospects are located (with the exception of the Molybdenite prospect).

SUMMARY STATISTICAL ANALYSIS

Comparison Between Samples Taken and BCDM RGS-1-1978 Geochemical Survey Results

<u>ELEMENT</u>	<u>ARITHMETIC MEAN <math>\bar{X}</math> CASSIAR</u>	<u>POPULATION SIZE n CASSIAR</u>	<u>ARITHMETIC MEAN <math>\bar{X}</math> BCDM</u>	<u>POPULATION SIZE N BCDM</u>	<u>STANDARD DEVIATION Sd BCDM</u>	<u>ANOMALOUS READINGS <math>\bar{X}</math> BCDM + (3 x Sd)</u>	<u>NO. OF ANOMALOUS SAMPLES A ± CASSIAR</u>	<u>PERCENTAGE ANOMALOUS</u>
Zinc	143	61	54.7	2124	38.5	G 170.2	10	16.4
Copper	156	61	27.3	2124	25.9	G 105.0	22	36.1
Lead	273	61	3.41	2124	6.15	G 21.86	38	62.3
Silver	1.83	61	0.123	2124	0.0907	G 0.395	36	59.0
Molybdenum	77	61	1.68	2124	3.62	G 12.54	27	44.3
Tungsten	80	61	2.81	2124	4.12	G 15.17	31	50.8

All values given in parts per million

G denotes greater than

Note: Ag-19 samples > 1.0 ppm

March 28, 1980

B.H. Whiting

BHW:sb

8. PROSPECTING DESCRIPTIONS

The following is a "Consecutive Listing" of observations made at each rock sample location (see Figures 4a to 4d).

<u>Sample No.</u>	<u>Location</u>	<u>Observations</u>
22265	Western Cirque (north of Weeskinisht Peak)	Contact of sediments above granite - some chalcopyrite ( $\text{CuFeS}_2$ ) in veins.
22266	Western Cirque	Quartz vein rich in chalcopyrite ( $\text{CuFeS}_2$ ) as talus on glacier below the vertical face.
22267	Western Cirque	Sedimentary talus sample with molybdenite ( $\text{MoS}_2$ ) smeared on fracture surface. Found on glacier.
22268	Western Cirque	Feldspathized granodiorite with quartz rich vein mineralized with molybdenite ( $\text{MoS}_2$ ), chalcopyrite ( $\text{CuFeS}_2$ ) and Powellite ( $\text{Ca}(\text{Mo},\text{W})\text{O}_4$ ) taken from talus below the vertical face.
22269	Western Cirque	2 centimetre wide quartz vein containing molybdenite ( $\text{MoS}_2$ ) and minor Powellite ( $\text{Ca}(\text{Mo},\text{W})\text{O}_4$ ) cuts a quartz diorite.
22270	North Central Cirque	Sedimentary talus sample possessing flakes of Scheelite ( $\text{CaWO}_4$ ) on fracture surfaces. Sample from talus below vertical cliff.
22271	North Eastern Cirque	Massive pyrrhotite ( $\text{Fe}_{1-X}\text{S}$ ) talus.
22272	North Eastern Cirque	Massive pyrrhotite ( $\text{Fe}_{1-X}\text{S}$ ) zone with chalcopyrite ( $\text{CuFeS}_2$ ) and Scheelite ( $\text{CaWO}_4$ ) in talus.
22273	North Central Cirque	Sericitically altered granite rich in chalcopyrite ( $\text{CuFeS}_2$ ), galena ( $\text{PbS}$ ) and sphalerite ( $\text{ZnS}$ ) - talus sample.

8. PROSPECTING DESCRIPTIONS (Cont'd)

<u>Sample No.</u>	<u>Location</u>	<u>Observations</u>
22274	North Central Cirque	Lineated sediment with elongated blebs of pyrrhotite ( $Fe_{1-X}S$ ).
22275	North Eastern Cirque	Gossanous sediment possessing arsenopyrite ( $FeAsS$ ) and minor chalcopyrite ( $CuFeS_2$ ) talus sample.
22276	North Eastern Cirque (east side)	Sediment sample taken from talus on glacier below the granite-sediment contact.
22277	South Western Cirque (south of Weeskinisht Peak)	Rusty arsenopyrite ( $FeAsS$ ) rich sedimentary sample.
22278	East Side	Heavy, arsenopyrite ( $FeAsS$ ) rich sedimentary sample.
22279	East Side	Aplite dyke with molybdenite ( $MoS_2$ ) cuts diorite in an eastern cirque (part of Noranda claims).
22280	North Central Cirque	Highly altered granite at face of adit. Quartz rich.
22281	North Central Cirque	Fault area possessing molybdenite ( $MoS_2$ ). Note: PJ claim post seen here although claim maps show PJ claims to be 3 kilometres to the southwest.
22282	East Side	Hornblende rich later phase of stock. Small area possessing molybdenite ( $MoS_2$ ). Looks similar to the hornblende rich area in the Red Rose Mine - (part of Noranda claims).
22290	Below ridge between north central and north eastern cirques	Aplitic dyke cutting sedimentary rocks.
22291	North central cirque	Rusty pyrrhotite ( $Fe_{1-X}S$ ) talus sample taken from below a gossan zone.

9. REFERENCES

British Columbia Department of Energy, Mines and  
Petroleum Resources

1. Minister of Mines Annual Report (MMAR) 1929-153
2. Minister of Mines Annual Report (MMAR) 1930-137
3. Minister of Mines Annual Report (MMAR) 1968-109
4. Geology, Exploration and Mining (GEM) 1969-83
5. Geology, Exploration and Mining (GEM) 1972-502
6. Geology, Exploration and Mining (GEM) 1973-487
7. Assessment Report No. 2016 - "Geophysical  
Survey and Polished Section Report for  
the Rega Mineral Group"; Magnetron Mining  
Limited, C.A. Ager, 1968
8. Assessment Report No. 3541 "Aeromagnetic  
Survey of Magnetron Claims"; C.A. Ager, 1972
9. Assessment Report No. 276, "Gravity Survey  
of Magnetron Claims"; C.A. Ager, 1973.

Geological Survey of Canada

10. G.S.C. Memoir 329 "Geology of the Terrace map area -  
British Columbia; S. Duffell and J.G. Souther, 1964.
11. G.S.C. Map 1136A - "Geology - Terrace" (accompanies  
G.S.C. Memoir 329).
12. G.S.C. Map 1385 A - "Geology - Skeena River".

APPENDIX I

GEOCHEMICAL RESULTS



# BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C.

PHONE: 985-0681

TELEX: 04-352667

## Geochemical Lab Report

W; Basic Fusion  
 Cu,Pb,Zn,Mo,Ag; Hot Aqua Regia  
 Au; Fire Assay & Hot Aqua Regia  
 W; Colorimetric

Extraction \_\_\_\_\_ Report No. 29 - 1994 PROJECT: W. LUMEY

Method Cu,Pb,Zn,Mo,Ag,Au; Atomic Absorption From Cassiar Asbestos Corp. Ltd.

Fraction Used \_\_\_\_\_ Date September 27 1979

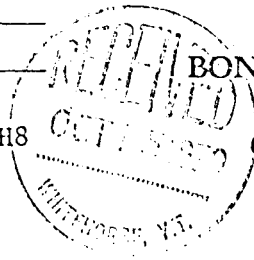
SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	W ppm	REMARKS
B 111	68	23	67	26	1.3	25	
112	97	25	59	24	1.0	55	
113	119	37	91	22	1.2	78	<i>W/ Soil Samples</i>
114	243	30	100	29	0.9	95	
115	80	52	67	25	1.2	33	
116	172	34	98	10	1.2	88	
117	480	34	90	23	2.4	225	
118	177	25	74	13	1.2	45	
119	243	20	81	15	0.9	205	
120	304	13	90	40	0.8	250	
121	38	6	46	5	0.2	2	
122	37	7	66	4	0.2	2	
123	93	81	159	3	0.6	14	
124	24	10	63	10	0.6	11	
125	28	13	67	14	0.2	9	
126	21	20	55	10	0.8	9	
127	87	24	255	4	0.4	2	
128	18	26	21	9	0.3	8	
129	28	16	28	6	0.2	3	
130	24	7	58	2	0.2	3	
131	60	116	465	5	1.0	3	
132	32	70	630	5	0.2	2	
133	45	18	94	5	0.2	2	
134	64	19	86	7	0.5	8	
L 620	31	7	44	4	0.2	2	
621	40	14	53	12	0.2	43	
622	45	22	67	7	0.2	38	
623	32	10	86	16	0.2	11	
625	18	24	123	220	0.4	2	
626	10	24	41	11	0.4	3	





To. Assiar Asbestos Corp.REPORT NO. 29 - 1106PAGE No. 1

BONDAR-CLEGG &amp; COMPANY LTD.

DATE: October 11, 1979205 - 4133 - 4th Avenue  
Whitehorse, Yukon Y1A 1H8Samples submitted: September 21, 1979  
Results completed: October 11, 1979

## CERTIFICATE OF ASSAY

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

MARKED	GOLD		SILVER		Cu	MoS <sub>2</sub>	Pb	Zn	Co	W	
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
22265	-		0.32		0.54	0.003	0.01	0.04	-	0.03	
22266	<0.002		1.32		1.36	0.003	<0.01	0.02	-	-	
22267	-		-		-	0.200	-	-	-	0.02	
22268	-		0.25		0.12	4.21	0.06	0.02	-	0.05	
22269	-		-		-	0.15	-	-	-	0.06	
22270	-		-		-	-	-	-	-	0.03	
22271	<0.002		0.09		0.67	0.012	<0.01	0.03	-	0.05	
22272	-		0.47		1.22	0.010	0.01	0.05	-	0.57	
22273	-		1.98		0.80	0.007	0.37	0.41	-	0.02	
22274	-		0.16		0.07	-	0.03	0.07	-	-	
22275	0.002		0.04		0.04	-	0.01	0.05	-	-	
22276	-		-		-	0.003	-	-	-	0.02	
22277	0.002		0.04		0.06	0.003	<0.01	0.03	-	-	
22278	<0.002		0.02		<0.01	-	<0.01	0.03	-	-	
22279	-		-		-	0.28	-	-	-	0.08	
22280	-		-		-	0.007	-	-	-	0.02	
22281	-		-		<0.01	0.027	<0.01	0.02	-	-	
22282	-		-		-	0.003	-	-	-	0.10	

## NOTE:

Rejects retained three weeks  
Pulps retained three months  
unless otherwise arranged.
  
 Registered Assayer, Province of British Columbia

CERTIFICATE OF ASSAY

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

MARKED	GOLD		SILVER		Cu	MoS <sub>2</sub>	Pb	Zn	Co	W		
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
22290	-		-		-	0.026	-	-	-	0.02		
22291	0.005		1.45		0.38	-	0.44	3.10	-	-		

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

  
 Registered Assayer, Province of British Columbia

To: Asiar Asbestos Corporation Ltd.

REPORT NO. A29 - 1307

PAGE No. 1

**BONDAR-CLEGG & COMPANY LTD.**

DATE: October 26, 1979

Exploration Department  
2000 Guinness Tower  
1055 West Hastings Street  
Vancouver, B.C. V6E 3V3

**CERTIFICATE OF ASSAY**

Samples submitted: October 15, 1979  
Results completed: October 26, 1979

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

MARKED	GOLD		SILVER		MoS <sub>2</sub>	WO <sub>3</sub>						
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
22265	<0.002				-	-						
22272	0.002				-	-						
22273	<0.002				-	-						
22291	-				0.010	0.02						

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

  
Registered Assayer, Province of British Columbia

APPENDIX II

STATEMENT OF QUALIFICATIONS



## CASSIAR ASBESTOS CORPORATION LIMITED

2000 Guinness Tower, 1055 West Hastings St., Vancouver, B.C. Canada V6E 3V3. Phone (604) 688-2511, Telex 04-508644 Cable: Cassbestos


May 1, 1980

### Statement of Qualifications

I, David R. Budinski with business and residential addresses in the city of Vancouver in the Province of British Columbia, do hereby certify that:

1. I am a graduate of the University of Alberta and hold a Bachelor of Science degree in Geology, 1955.
2. I have practiced my profession in various areas of Canada and overseas for the past 25 years and have been continuously employed by Cassiar Asbestos Corporation Limited for the past 15 years.
3. During the summer of 1979, I personally directed the prospecting activities of Mr. William E. Lumley and Mr. Robert Bujas who are both experienced graduate geologists. Mr. Lumley graduated in 1974 with a B.Sc. in Geology from the University of Waterloo, Waterloo, Ontario, and Mr. Bujas graduated in 1977 with a B.Sc. in Geology from Brock University, St. Catherines, Ontario.
4. I also personally edited and supervised the preparation of this report by Mr. B.H. Whiting, whose statement of qualifications is included in the appendix.

Respectfully submitted

  
David R. Budinski, B.Sc.

Vancouver, Canada.



## CASSIAR ASBESTOS CORPORATION LIMITED

February 28, 1980.

### Statement of Qualifications

I, Bernard Henry Whiting, with business and residential addresses in Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology, 1979.
2. From 1975 to 1979, I was employed in mineral exploration as a geologist for temporary positions with Rio Tinto Canadian Exploration Limited, Welcome North Mines Limited and the Pacific Science Congress.
3. I am presently employed on a full-time basis, as an exploration geologist, with Cassiar Asbestos Corporation Limited.

Respectfully Submitted,

Bernard H. Whiting, B.Sc.

Vancouver, Canada.

BHW:sb

APPENDIX III

STATEMENT OF COSTS

STATEMENT OF COSTS

1979 WORK - RUSH 1-4, RY 1-4, FOX 1-5 & TIM 1-4 CLAIMS

a) Salaries and Wages

W. Lumley	- Aug. 4 - Sep. 30 = 58 days @ \$72/day	=	\$4,176.00
	- Oct. 21 - 30 = 10 days @ \$72/day	=	705.48
	- Nov. 21 - 30 = 10 days " " "	=	705.49
	- Dec. 9 - 12 = 4 days " " "	=	694.09
			<hr/>
	Sub-Total		\$6,281.06
R. Bujas	- Aug. 4 - Sep. 30 = 58 days @ \$52/day	=	3,016.00
	- Oct. 3 = 1 day @ \$115.50/day	=	115.54
			<hr/>
	Sub-Total		\$9,412.60
D. Budinski	- Aug. 4 - Oct. 3 = 2 mos. @ \$3,567.02/mo.		7,134.04
			<hr/>
	Total Salaries		\$16,546.64

b) Food and Accommodation (Terrace, B.C.)

W. Lumley	- Aug. 4 - Sep. 30 = 58 mandays @ \$27/manday	=	\$1,522.95
R. Bujas	- Aug. 4 - Sep. 30 = 58 " " " "	=	\$1,522.95
			<hr/>
	Total		\$3,045.90

c) Transportation

Aug. 4 - Sep. 30 - Helicopter charters - approx. 27 hrs. @ \$375/hr.	=	\$9,834.00
Ground Transportation - car rental & expenses - 28 days @ \$30/day	=	839.10
		<hr/>
	Total	\$10,673.10

.....



d) Analyses

20 rock samples analyzed for Ag, Cu, Mo, Pb, Zn, W @ \$38	=	\$ 760.00
61 soil samples analyzed for Cu, Pb, Zn, Mo, Ag, W @ \$9	=	540.48
		<hr/>
Total		\$1,300.48

e) Report & Maps Preparation

Ben Whiting - Mar. 1 - 31 - Salary 1 month @ \$2,176.14	=	\$2,176.14
Maps, Photos, Printing, Etc.	=	520.28
		<hr/>
Total		\$2,696.42

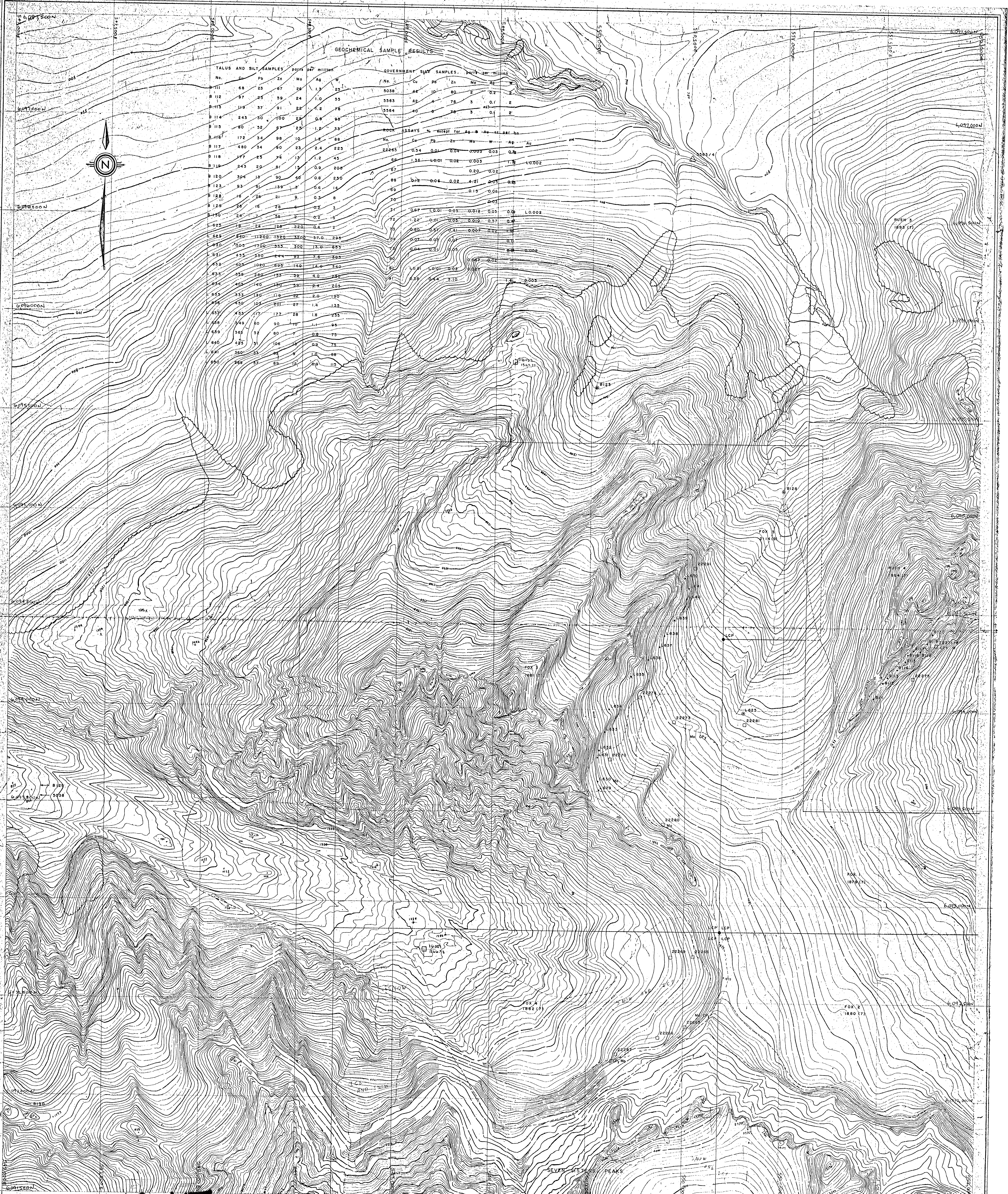
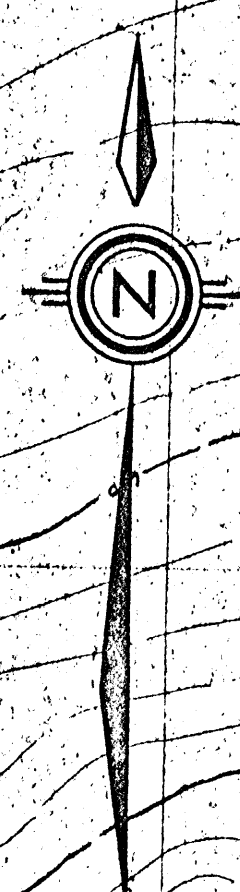
TOTAL EXPENDITURES		<hr/> <hr/>
		\$34,262.54

Distribution of Work and Expenditures

The 1979 work program was conducted over the entire claim block (17 claims - 8 groups) simultaneously and was more or less evenly distributed. Total expenditures for each group is therefore  $\frac{\$34,262.54}{8} = \$4,282.81$ .

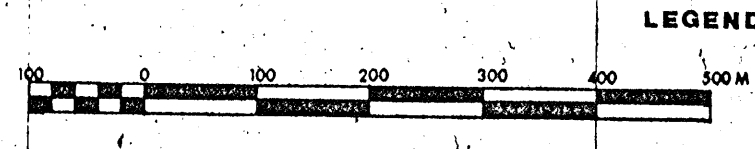
GEOCHEMICAL SAMPLE RESULTS

TALUS AND SILT SAMPLES							GOVERNMENT SILT SAMPLES						
No.	Cu	Pb	Zn	Mo	Ag	W	No.	Cu	Pb	Zn	Mo	Ag	W
B 111	68	25	67	28	1.3	25	5038	48	10	80	2	0.2	2
B 112	97	25	59	24	1.0	55	5583	48	10	78	3	0.1	2
B 113	119	37	91	22	1.2	78	5584	40	6	76	3	0.1	2
B 114	243	50	100	25	0.9	98	ROCK ASSAYS % except for Ag - Au - Pt - Bi - Sn						
B 115	80	32	67	23	1.2	30	No.	Cu	Pb	Zn	Mo	Ag	Au
B 116	172	34	98	10	1.6	98	22265	0.34	0.01	0.04	0.003	0.03	0.3
B 117	480	34	90	23	2.4	225	58	1.38	L.O.O.T.	0.02	0.003	1.3	L.O.O.T.
B 118	177	25	74	15	1.2	45	67	0.12	0.06	0.02	4.21	0.03	0.25
B 119	243	20	81	15	0.9	20.8	68	0.12	0.06	0.02	0.13	0.04	0.04
B 120	304	13	90	36	0.8	23.0	71	0.57	L.O.O.T.	0.03	0.018	0.05	0.03
B 123	93	61	139	3	0.6	14	72	1.22	0.01	0.05	0.010	0.57	0.4
B 128	18	26	21	9	0.3	8	79	0.07	0.05	0.01	0.01	0.1	0.1
B 129	28	16	28	6	0.2	3	80	0.80	0.57	0.41	0.007	0.02	1.0
B 150	24	7	50	2	0.2	5	81	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 223	18	28	123	22.0	0.4	2	82	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 225	440	11800	1320	32.0	37.0	230	83	0.07	0.05	0.01	0.01	0.1	0.1
B 230	500	1700	335	30.0	13.0	65.5	84	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 231	455	1300	244	23	7.6	26.3	85	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 232	405	1020	695	14.0	14.0	34.0	86	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 235	358	200	131	22	4.0	25.0	87	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 234	405	140	130	35	8.4	26.3	88	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 235	355	130	110	22	2.0	19.0	89	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 236	450	103	201	27	1.4	13.2	90	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 237	433	177	172	28	1.8	25.5	91	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 238	345	80	90	10	1.1	9.5	92	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 239	365	52	80	10	0.9	7.3	93	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 240	425	51	106	14	0.9	7.5	94	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 241	360	33	68	4	1.0	8.8	95	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.
B 250	298	37	88	10	0.9	11.2	96	0.04	L.O.T.	0.05	0.05	0.06	L.O.O.T.



CASSIAR ASBESTOS CORPORATION LIMITED  
VANCOUVER, B.C.  
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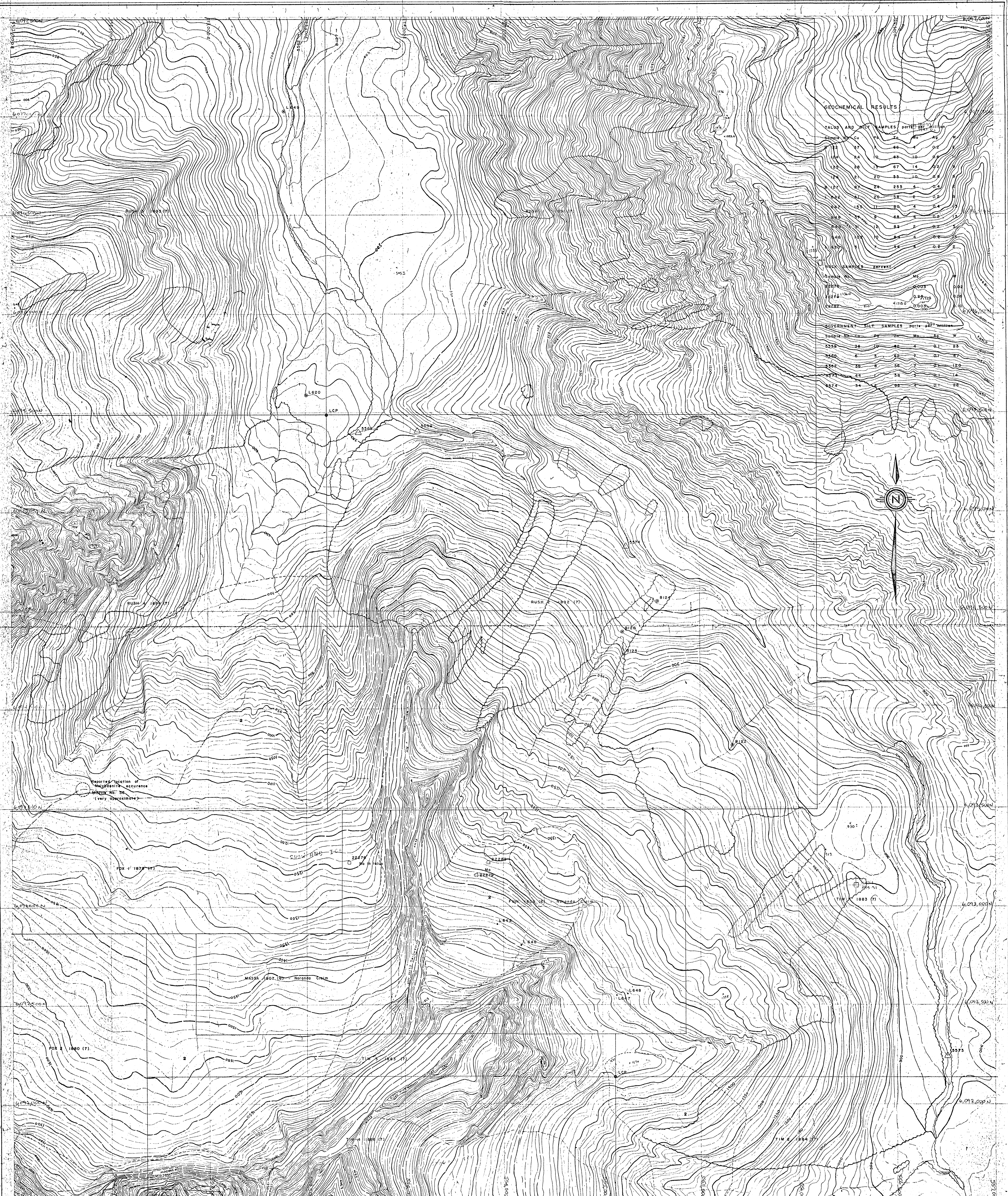
LEGEND

- Coar. Intrusive Complex - granodiorite stock
- ▨ Upper Jurassic and Lower Cretaceous
- ▩ Bowser Group Sediments - shales, argillites, greywackes, sandstones and conglomerates

- Geologic Contact (approx.)
- Rock Sample
- Talus Sample
- Silt Sample
- △ Government Silt Sample

**GEOCHEMISTRY**  
 SCALE: 1:2000  
 SHEET: 18 FEB 80  
 CONTOUR INTERVAL: 10 M  
 JOB NO.: 79-107  
 COMPILED FROM PHOTOGRAPH TAKEN: 14 AUG 74  
 SHEET NO.: 1 of 4

Figure 4a



**GEOCHEMICAL RESULTS**

VALUES ARE IN PERCENT UNLESS OTHERWISE NOTED

SAMPLE NO.	Fe	Cu	Zn	Pb	Ag	W
100	2.4	1.0	6.0	1.0	0.2	0.1
101	2.8	1.2	6.7	1.4	0.5	0.1
102	2.1	1.0	5.5	1.0	0.8	0.1
103	2.7	1.2	7.0	1.5	0.4	0.1
104	2.5	1.1	6.5	1.3	0.3	0.1
105	2.3	1.0	6.2	1.2	0.2	0.1
106	2.6	1.1	6.4	1.3	0.3	0.1
107	2.4	1.0	6.1	1.2	0.2	0.1
108	2.5	1.1	6.3	1.3	0.3	0.1
109	2.3	1.0	6.0	1.2	0.2	0.1
110	2.4	1.1	6.2	1.3	0.3	0.1
111	2.5	1.1	6.3	1.3	0.3	0.1
112	2.4	1.0	6.1	1.2	0.2	0.1
113	2.5	1.1	6.2	1.3	0.3	0.1
114	2.3	1.0	6.0	1.2	0.2	0.1
115	2.4	1.1	6.1	1.2	0.2	0.1
116	2.5	1.1	6.2	1.3	0.3	0.1
117	2.3	1.0	6.0	1.2	0.2	0.1
118	2.4	1.1	6.1	1.2	0.2	0.1
119	2.5	1.1	6.2	1.3	0.3	0.1
120	2.3	1.0	6.0	1.2	0.2	0.1
121	2.4	1.1	6.1	1.2	0.2	0.1
122	2.5	1.1	6.2	1.3	0.3	0.1
123	2.3	1.0	6.0	1.2	0.2	0.1
124	2.4	1.1	6.1	1.2	0.2	0.1
125	2.5	1.1	6.2	1.3	0.3	0.1
126	2.3	1.0	6.0	1.2	0.2	0.1
127	2.4	1.1	6.1	1.2	0.2	0.1
128	2.5	1.1	6.2	1.3	0.3	0.1
129	2.3	1.0	6.0	1.2	0.2	0.1
130	2.4	1.1	6.1	1.2	0.2	0.1
131	2.5	1.1	6.2	1.3	0.3	0.1
132	2.3	1.0	6.0	1.2	0.2	0.1
133	2.4	1.1	6.1	1.2	0.2	0.1
134	2.5	1.1	6.2	1.3	0.3	0.1
135	2.3	1.0	6.0	1.2	0.2	0.1
136	2.4	1.1	6.1	1.2	0.2	0.1
137	2.5	1.1	6.2	1.3	0.3	0.1
138	2.3	1.0	6.0	1.2	0.2	0.1
139	2.4	1.1	6.1	1.2	0.2	0.1
140	2.5	1.1	6.2	1.3	0.3	0.1
141	2.3	1.0	6.0	1.2	0.2	0.1
142	2.4	1.1	6.1	1.2	0.2	0.1
143	2.5	1.1	6.2	1.3	0.3	0.1
144	2.3	1.0	6.0	1.2	0.2	0.1
145	2.4	1.1	6.1	1.2	0.2	0.1
146	2.5	1.1	6.2	1.3	0.3	0.1
147	2.3	1.0	6.0	1.2	0.2	0.1
148	2.4	1.1	6.1	1.2	0.2	0.1
149	2.5	1.1	6.2	1.3	0.3	0.1
150	2.3	1.0	6.0	1.2	0.2	0.1

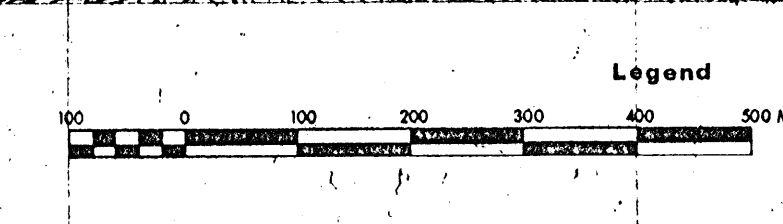
**GOVERNMENT SILT SAMPLES** (percent)

SAMPLE NO.	Fe	Cu	Zn	Pb	Ag	W
5530	5.4	1.0	4.1	0.1	0.1	0.1
5540	6.1	1.1	4.2	0.1	0.1	0.1
5550	5.8	1.0	4.0	0.1	0.1	0.1
5560	6.0	1.1	4.1	0.1	0.1	0.1
5570	5.9	1.0	4.0	0.1	0.1	0.1
5580	6.2	1.1	4.2	0.1	0.1	0.1
5590	6.1	1.1	4.1	0.1	0.1	0.1
5600	6.0	1.0	4.0	0.1	0.1	0.1
5610	6.3	1.1	4.3	0.1	0.1	0.1
5620	6.2	1.1	4.2	0.1	0.1	0.1
5630	6.1	1.0	4.1	0.1	0.1	0.1
5640	6.4	1.1	4.4	0.1	0.1	0.1
5650	6.3	1.1	4.3	0.1	0.1	0.1
5660	6.2	1.0	4.2	0.1	0.1	0.1
5670	6.5	1.1	4.5	0.1	0.1	0.1
5680	6.4	1.1	4.4	0.1	0.1	0.1
5690	6.3	1.0	4.3	0.1	0.1	0.1
5700	6.6	1.1	4.6	0.1	0.1	0.1
5710	6.5	1.1	4.5	0.1	0.1	0.1
5720	6.4	1.0	4.4	0.1	0.1	0.1
5730	6.7	1.1	4.7	0.1	0.1	0.1
5740	6.6	1.1	4.6	0.1	0.1	0.1
5750	6.5	1.0	4.5	0.1	0.1	0.1
5760	6.8	1.1	4.8	0.1	0.1	0.1
5770	6.7	1.1	4.7	0.1	0.1	0.1
5780	6.6	1.0	4.6	0.1	0.1	0.1
5790	6.9	1.1	4.9	0.1	0.1	0.1
5800	6.8	1.1	4.8	0.1	0.1	0.1
5810	6.7	1.0	4.7	0.1	0.1	0.1
5820	7.0	1.1	5.0	0.1	0.1	0.1
5830	6.9	1.1	4.9	0.1	0.1	0.1
5840	6.8	1.0	4.8	0.1	0.1	0.1
5850	7.1	1.1	5.1	0.1	0.1	0.1
5860	7.0	1.1	5.0	0.1	0.1	0.1
5870	6.9	1.0	4.9	0.1	0.1	0.1
5880	7.2	1.1	5.2	0.1	0.1	0.1
5890	7.1	1.1	5.1	0.1	0.1	0.1
5900	7.0	1.0	5.0	0.1	0.1	0.1

Reported location of  
Asbestos occurrence  
MAGNETITE  
(very Discontinuous)

CASSIAR ASBESTOS CORPORATION LIMITED  
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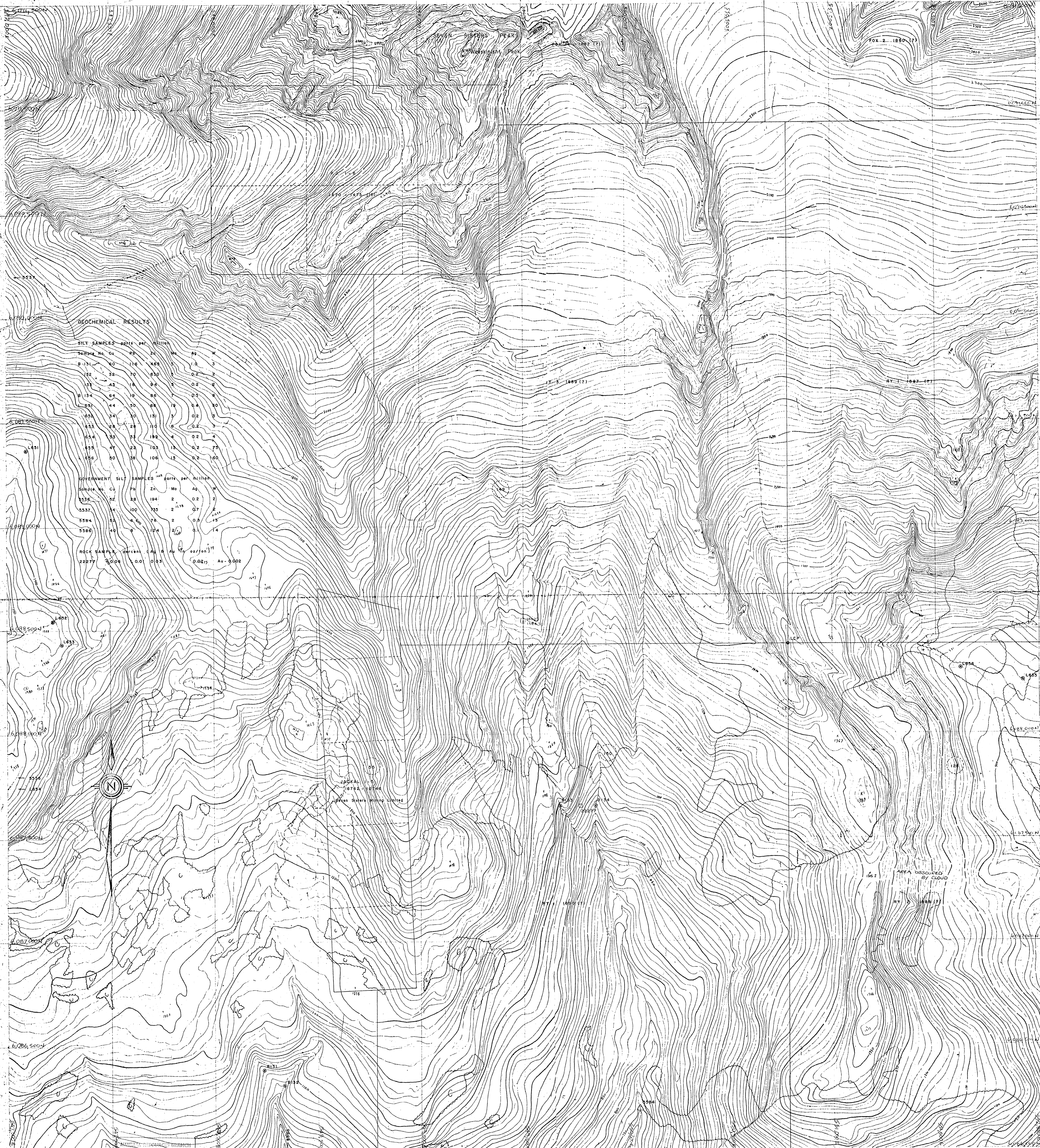
**Legend**

- Early Tertiary Intrusive Complex - granodiorite stock
- Late Jurassic and Early Cretaceous Gneiss, schists, argillites, graywackes, sandstones and conglomerates
- Geologic Contact (approximate)
- Rock Sample
- Talus Sample
- Silt Sample
- Government Silt Sample

1	2	3	4
0 09 300N	0 09 300N	0 09 300N	0 09 300N
0 09 300N	0 09 300N	0 09 300N	0 09 300N

Figure 4b

**GEOCHEMISTRY**  
SCALE: 1:5000  
CONTOUR INTERVAL: 10 M  
COMPILED FROM PHOTOGRAPHS TAKEN: 14 AUG 74  
DATE: 18 FEB 80  
JOB NO.: 79-1107  
SHEET NO.: 2 of 4



**GEOCHEMICAL RESULTS**

**SILT SAMPLES** parts per million

Sample No.	Cu	Pb	Zn	Mo	Ag	W
B-131	80	118	469	2	1.3	3
132	39	70	830	2	0.2	2
133	45	18	94	2	0.2	2
B-134	64	10	88	2	0.3	8
135	14	30	88	19	0.4	10
136	34	30	131	2	0.2	3
137	28	28	110	6	0.2	3
138	50	32	182	4	0.2	4
139	47	23	103	13	0.2	75
140	50	30	106	12	0.2	100

**GOVERNMENT SILT SAMPLES** parts per million

Sample No.	Cu	Pb	Zn	Mo	Ag	W
5536	52	28	194	2	0.2	2
5537	34	100	335	2	1.18	0.7
5584	53	6	78	2	0.5	13
5586	40	8	124	2	0.1	14

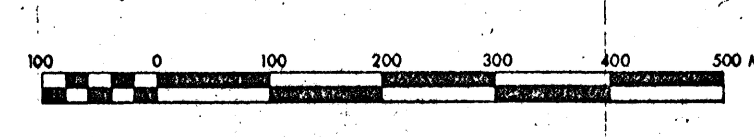
**ROCK SAMPLES** (parts per million)

Sample No.	Cu	Pb	Zn	Mo	Ag	W
22277	3.006	1.001	0.03		0.025	Au-0.002

CASSIAR ASBESTOS CORPORATION LIMITED  
VANCOUVER, B.C.  
SEVEN SISTERS

**8467**

Approximate position of mineralized showings from BCDM Minfile  
 125 Jackel  
 128 Big Oliver  
 129 Margarite  
 148 Rega  
 150 Mega



Rock Sample  
 Silty Sample  
 Government Silt Sample

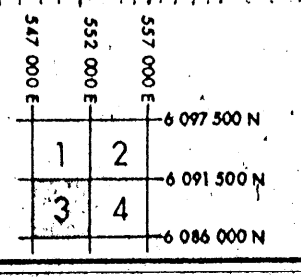
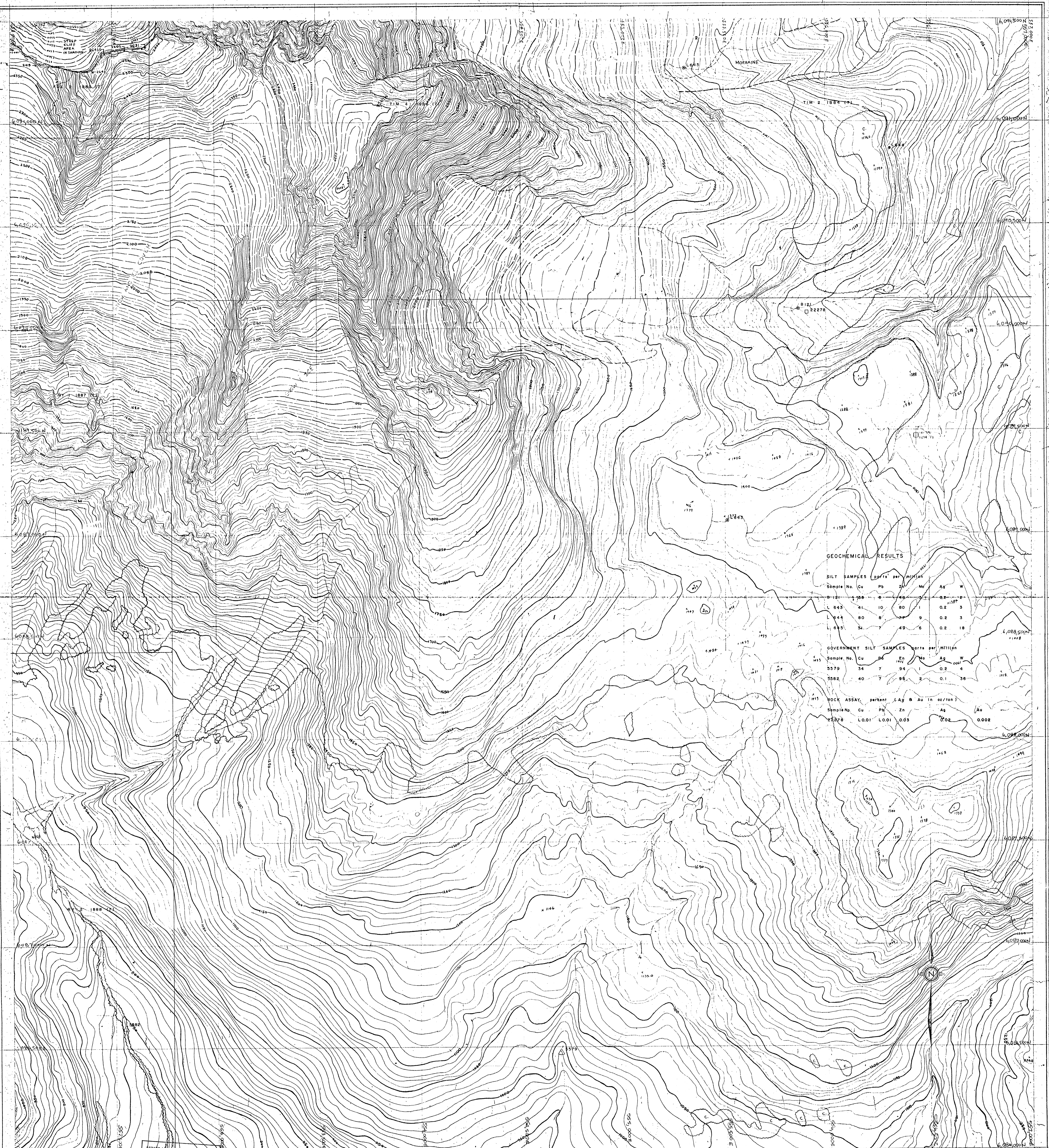


Figure 4c

GEOCHEMISTRY	
SCALE: 1:5,000	DATE: 18 FEB 80
CONTOUR INTERVAL: 10 M	COR. NO.: 79-1107
COMPILED FROM MICROGRAPHIC DATA: 14 AUG 78	SHEET NO.
3 of 4	



GEOCHEMICAL RESULTS

SILT SAMPLES							
Sample No.	Cu	Pb	Zn	Mo	Ag	W	
B 121	35	0	46	0	0.2	2	
L 643	41	10	80	1	0.2	3	
L 644	80	7	77	9	0.2	3	
L 645	31	7	49	6	0.2	18	

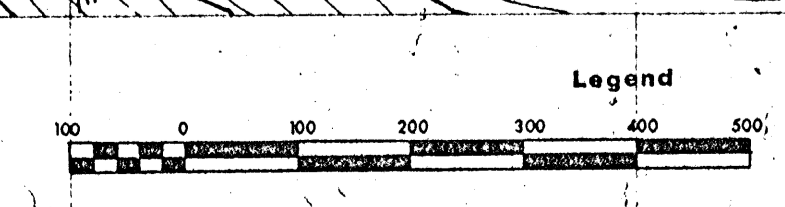
GOVERNMENT SILT SAMPLES							
Sample No.	Cu	Pb	Zn	Mo	Ag	W	
5579	34	7	94	1	0.2	4	
5582	40	7	96	2	0.1	36	

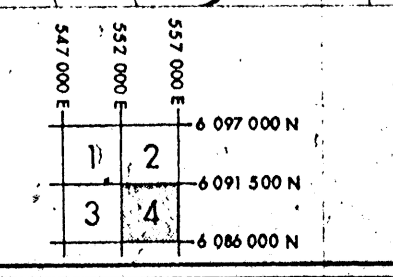
ROCK ASSAY					
Sample No.	Cu	Pb	Zn	Ag	Au
22278	0.01	0.01	0.03	0.02	0.002

CASSIAR ASBESTOS CORPORATION LIMITED  
VANCOUVER, B.C.  
SEVEN SISTERS

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**Legend**  
 Early Tertiary Coast Intrusive Complex - granodiorite stock  
 Late Jurassic and Early Cretaceous Gower Group Sediments - shales, argillites, greywackes, sandstones and conglomerates



Geologic Contact (approximate)  
 Rock Sample  
 Silt Sample  
 Government Silt Sample

GEOCHEMISTRY			
SCALE: 1:5000	DATE: 18 FEB 80		
CONTOUR INTERVAL: 10 M	ICR NO.: 79-107		
COMPILED FROM PHOTOGRAPHY TAKEN: 14 AUG 74		SHEET NO. 4 of 4	

Figure 4d