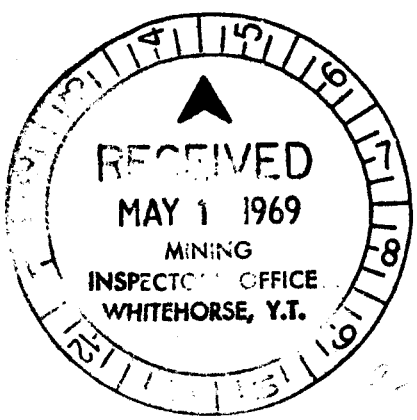
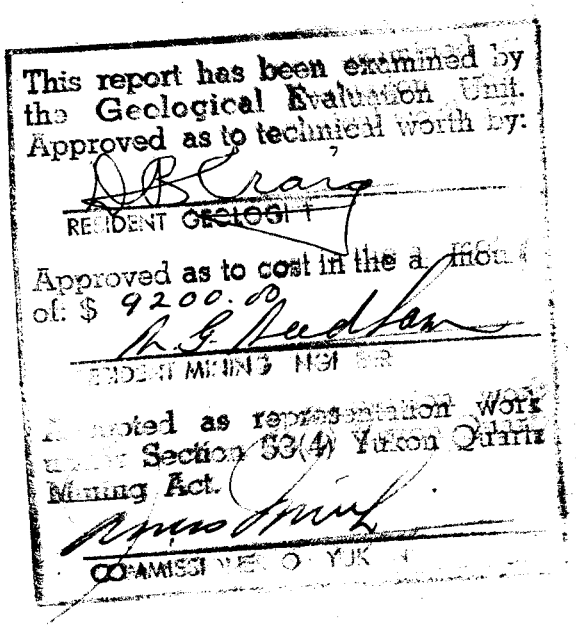
GEOLOGICAL AND GEOCHEMICAL REPORT

CAB MINERAL CLAIM GROUP

N.T.S. 105-F-14





By

R. J. DARNEY

ATLAS EXPLORATIONS LIMITED

March, 1969

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LIST OF CLAIMS

Claim No.	Grant Number	Date Recorded
CAB 1-8	25386-25393	July 15, 1968
9-16	25394-25401	July 15, 1968
17-24	25506-25513	July 29, 1968
25-32	25514-25521	July 29, 1968
33-72	25822-25861	Aug. 30, 1968
73-104	25923-25954	Sept. 9, 1968
105-106	26151-26152	Sept. 23, 1968

CAB MINERAL CLAIMS

105-F-14

SCALE 1"=1/2 mi

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ATLAS EXPLORATIONS LIMITED
(N.P.L.)
330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

GEOLOGICAL AND GEOCHEMICAL REPORT
CAB MINERAL CLAIM GROUP

INTRODUCTION

The Cab Mineral Claims (1-32) were staked by Pete Risby of Ross River, Y.T. during the early part of June, 1968. The claims are located in the upper Fox Creek Area (Sheet 105-F) approximately 36 air miles from Ross River and 4 miles south of Fox Mountain peak.

During the latter part of the 1968 field season, Atlas Explorations optioned the Cab Mineral Claims and carried out a limited exploration program on the claims and surrounding area. The program consisted of geologic mapping, geochemical soil sampling and sampling of the mineralized zones.

Access to the property is by fixed-wing aircraft from Ross River to a small lake 1½ miles north of the property. The Canol Road lies 12 miles east of the property.

TOPOGRAPHY

The main showing lies at the 5700 foot level in a cirque on the N.W. limits of Twin Mountain. From the cirque floor at 5500 feet, the walls rise sharply to an elevation of 6500 ft. to the S.W. and approximately 6000 ft. to the North. The main zone is approximately half-way up the Northern slope.

The property is almost entirely above timberline, so vegetation is restricted to low grass and occasional clumps of scrub spruce.

GEOLOGY

Preliminary mapping was done by R. Darney at 1"= ¼ mile scale. This was followed up by Mr. Sakai and Mr. Kido, of Mitsui Mining & Smelting at a scale of 1"= 100 ft.

The claim group lies in an area of uplifted Proterozoic sediments, intruded by a Cretaceous quartz monzonite intrusive. This intrusive is exposed over an area of approximately 2 miles, contacts are very sharp where visible. The quartz monzonite is typically medium to coarse grained, but appears much finer grained and foliated as it approaches the contacts.

The overlying metasediments are composed of interbedded quartz biotite schist, quartzite, limestone, skarny limestone and garnet diopside skarn. Their regional attitude is approximately 130°/45° N.E. although the attitude changes to 175°/46° E. at the nose of the intrusive indicating some doming effect

Geology of the Showings

Two main showings in the cirque were observed and sampled. Showing #1 West Zone, Fig. 1 and 2, is located on the S.E. margin of the intrusive body. Heavy talus makes mapping of the intrusive contact difficult, but from all indications the showing is bounded by intrusive on three sides.

The showing consists of a massive skarn zone approximately 20 ft. thick with an average attitude of 163°/48° E. The surface showing is approximately 45 ft. wide due to erosion on its down dip side. At least 2 irregular bands of massive pyrrhotite (2-4 ft. in thickness) lie within the skarn zone. From its northern contact with the intrusive, the zone extends 400 ft. south until covered by talus.

The mineralization consists of scheelite and very minor chalcopyrite in massive pyrrhotite and garnet-diopside skarn. The scheelite occurs in irregular bands or fine-coarse disseminations in the skarn, while only as fine disseminations in the massive pyrrhotite. It was noted that the percentage scheelite appeared to increase as the grain size of the garnet-diopside skarn decreased.

Showing #2 - East Zone

The second showing, Figures 1 and 2, lie on the N.E. wall of the cirque, at the 5700 ft. level. It is composed of mainly fine-coarse grained diopside skarn directly in contact with the intrusive, and conformable with the overlying metasediments.

The main skarn zone averages 20 ft. thick and was observed, during initial sampling, for a strike length of 1670 ft. During follow-up sampling by Archer Cathro and Associates, the zone was extended to approximately 3500 ft. in length. A second skarn zone is separated 10 - 30 ft. stratigraphically above the first zone by interbedded quartz biotite schist and local sills of quartz monzonite intrusive. This zone averages 15-20 ft. thick and parallels the underlying zone for at least 900 ft., until covered by talus at both ends. There is nothing to suggest that this upper zone could not extend as far as the underlying one.

METHODS OF SAMPLING

Because of the banded nature of the scheelite mineralization, the continuous chip sample method was chosen during the first stage of sampling. The samples were bagged in 5 ft. sections. This method was employed only where the mineralization zone was almost totally exposed across its entire width. Between the lines of continuous chip samples, where exposure was not

complete, a method of grab sampling was used. To obtain a fairly representative sample, at least one dozen chips were taken from various points on the outcrop, then bagged together.

Showing #1 - West Zone - three lines (Lines 1, 2, 3) for a total of 90 ft. were sampled by the continuous chip method. No grab samples were taken. (Fig. 3)

Showing #2 - East Zone - Both grab and continuous chip sample methods were used. Over the entire 1670 ft., five lines were sampled for a total footage of 120 ft. At in-between locations, eight random grab samples were taken. On the overlying zone, time would not permit a continuous chip sample method; a total of 13 grab samples were taken over its 900 ft. of exposed strike length. (Fig. 4)

Twelve grab samples were taken on a third area of mineralization at the extreme east end of the cirque. No geologic mapping could be done at this location as the relief is almost vertical. The locations of the samples are not known and were taken only as an indication of further mineralization.

All samples from the first stage of sampling were assayed at three different assay offices to obtain some reasonable standard. These results are shown in Table I and average grades in Table II.

The Whitehorse Assay Office and Coast Eldridge used a 'wet assay' technique on pulps ground to -200 mesh, whereas the Canada Tungsten Laboratory used an 'x-ray' technique on the same pulps.

During September, 1968, D. Lyman of Archer Cathro and Associates spent 10 days re-sampling and extending both zones sampled

during stage 1. A panel-type sampling method was used in 3 ft. by 3 ft. areas across the strike of the zone. The results from this sampling program are shown on Figures 3 and 4.

TABLE I

CAB MINERAL CLAIMS

Assay Results WO_3

Sample No.	Location	Assayed By		
		Cantung X-Ray	Whitehorse Assay Office	Coast Eldridge
5701	LA2 5-10	0.45	0.15	0.27
5702	10-15	0.84	0.44	0.70
5703	15-20	0.57	0.52	0.53
5704	20-25	1.39	0.92	1.01
5705	A3 grab	1.08	0.62	0.66
5706	A3-1 grab	0.12	0.32	0.27
5707	A4 grab	0.83	1.22	1.44
5708	LA3 0-5	1.21	1.10	1.16
5709	5-10	1.10	1.66	0.93
5710	10-15	0.46	0.33	0.76
5711	15-20	0.27	0.27	0.52
5712	20-25	0.58	0.10	0.41
5713	25-30	Tr.	Tr.	0.02
5714	A5 grab	Tr.	2.94	3.16
5715	A6 grab	0.98	0.39	0.51
5716	A7 grab	0.48	0.53	0.41
5717	A8 grab	1.88	0.02	0.13
5718	LA4 0-5	0.33	0.44	0.45
5719	5-10	1.00	Tr.	0.08
5720	10-15	0.48	0.09	0.17
5721	15-20	Tr.	0.04	0.07
5722	20-25	0.30	0.02	0.05
5723	25-30	0.12	0.04	0.33
5724	LA5 0-5	1.11	0.41	0.51
5725	5-10	0.29	Tr.	0.19
5726	10-15	0.79	0.32	0.10
5727	15-17	Tr.	0.02	0.02
5728	A9 grab	0.21	0.26	0.37
5729	A10 grab	0.27	Tr.	0.19
5730	A10-1 grab	0.63	0.67	0.54

Sample No.	Location	Assayed By		
		Cantung X-Ray	Whitehorse Assay Office	Coast Eldridge
5731	A11 grab	0.14	0.21	0.38
5732	A11-1 grab	0.55	0.52	0.59
5733	A11-2 grab	0.34	0.33	0.69
5734	A12 grab	0.10	Tr.	0.01
5735	A12-1 grab	1.58	0.57	0.64
5736	A13 grab	0.30	0.22	0.53
5737	A14 grab	0.46	0.54	0.64
5738	A15 grab	1.11	0.73	0.78
5739	A15-1 grab	0.70	0.34	0.47
5740	A16 grab	1.59	0.14	0.39
5741	ED 1	0.28	Tr.	0.01
5742	ED 2	Tr.	Tr.	0.06
5743	ED 3	0.08	0.11	0.39
5744	ED 4	0.08	0.10	0.24
5745	ED 5	0.37	0.18	0.27
5746	ED 6	1.82	0.69	0.52
5747	ED 7	2.00	1.65	0.92
5748	ED 8	Tr.	0.02	0.12
5749	ED 9	Tr.	0.02	0.02
5750	ED 10	0.28	0.15	0.30
5770	L1 0-5	2.25	1.18	0.75
5771	5-10	0.06	0.38	0.36
5772	10-15	2.85	1.67	4.21
5773	15-20	0.51	0.81	0.89
5774	20-25	0.10	0.03	
5775	L2 0-5	0.08	0.05	0.18
5776	5-10	0.72	0.29	0.36
5777	10-15	0.21	0.11	0.27
5778	15-20	0.18	0.28	0.55
5779	20-25	0.99	0.68	1.02
5780	25-30	0.59	0.32	0.46

Sample No.	Location	Assayed By		
		Cantung X-Ray	Whitehorse Assay Office	Coast Eldridge
5781	L2 30-35	0.22	0.17	0.38
5782	35-40	0.31	0.38	0.64
5783	L3 0-5	0.91	0.69	0.84
5784	5-10	0.50	0.52	0.68
5785	10-15	0.44	0.31	0.68
5786	15-20	0.52	0.84	0.85
5787	30-35	0.54	0.73	0.90
5789	A1 grab 0-5	0.10	0.12	0.16
5790	5-10	0.28	0.33	0.50
5791	10-15	0.10	0.10	0.16
5792	15-20	0.12	0.22	0.32
5793	20-25	0.12	0.05	0.15
5794	LA1 0-5	1.04	0.24	0.62
5795	5-10	0.62	0.46	0.82
5796	10-15	0.06	0.12	0.21
5797	15-20	1.02	0.88	1.12
5798	20-25	0.98	0.35	0.60
5799	A2 grab	0.27	0.06	0.16
5800	LA2 0-5	0.14	0.23	0.43
5851	ED 11	0.54	0.09	0.33
5852	ED 12	0.10	0.17	0.33
	Average 81 samples	0.58	0.41	0.55

TABLE II Whitehorse Assay Office

ASSAY RESULTS

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO_3	WIDTH X ASSAY	AVER. ASSAY.
5770	LINE # 1	0'	5'	5'	2.25	11.25	
5771	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.06	0.30	
5772		10'	15'	5'	2.85	14.25	
5773		15'	20'	5'	0.51	2.55	
5774		20'	25'	5'	0.10	0.50	
				25.0'		28.85	1.15
5775	LINE #2	0'	5'	5'	0.08	0.40	
5776	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.72	3.60	
5777	125 FEET NORTH OF LINE #1	10'	15'	5'	0.21	1.05	
5778		15'	20'	5'	0.18	0.90	
5779		20'	25'	5'	0.99	4.95	
5780		25'	30'	5'	0.59	2.95	
5781		30'	35'	5'	0.22	1.10	
5782		35'	40'	5'	0.31	1.55	
				40'		16.50	0.41
5783	LINE # 3	0'	5'	5'	0.91	4.55	
5784	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.50	2.50	
5785	135 FEET SOUTH OF LINE #1	10'	15'	5'	0.44	2.20	
5786		15'	20'	5'	0.52	2.60	
				20'		11.85	0.59
5787	"	30'	35'	5'	0.54	2.70	0.50
5789	A-1 GRABS	0'	5'	5'	0.10	0.50	
5790	90' WEST OF LINE A-1 CHIP	5'	10'	5'	0.28	1.40	
5791	SHOWING # 2	10'	15'	5'	0.10	0.50	
5792		15'	20'	5'	0.12	0.60	
5793		20'	25'	5'	0.12	0.60	
				25'		3.60	0.14
5794	LINE A-1 CHIP	0'	5'	5'	1.04	5.20	
5795	SHOWING # 2	5'	10'	5'	0.62	3.10	
5796		10'	15'	5'	0.06	.30	
5797		15'	20'	5'	1.02	5.10	
5798		20'	25'	5'	0.98	4.90	
				25'		18.60	0.74
5799	A-2 GRAB				0.27		0.27
	470 FEET EAST OF LINE A-1						
	SHOWING #2						

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO_3	WIDTH X ASSAY	AVEC. ASSAY
5800	LINE A-2 CHIP	0'	5'	5'	0.14	0.70	
5701	760 FEET EAST OF LINE A-1	5'	10'	5'	0.45	2.25	
5702	SHOWING #2	10'	15'	5'	0.84	4.20	
5703		15'	20'	5'	0.57	2.85	
5704		20'	25'	5'	1.39	6.95	
				25'		16.95	0.68
5705	A-3 GRAB				1.08		1.08
5706	A-3-1 GRAB				0.12		0.12
	BOTH SAMPLES FROM SAME OUTCROP - 1000' EAST OF LINE A-1						
5707	A-4 GRAB				0.83		0.83
	1200 FEET FROM LINE A-1 (EAST)						
5708	LINE A-3	0'	5'	5'	1.21	6.05	
5709	1300 FEET FROM LINE A-1 (EAST)	5'	10'	5'	1.10	5.50	
5710		10'	15'	5'	0.46	2.30	
5711		15'	20'	5'	0.27	1.35	
5712		20'	25'	5'	0.58	2.90	
5713		25'	30'	5'	TR	0.00	
				30'		18.10	0.60
5714	A-5 GRAB				TR		TR
	1335 FEET EAST OF LINE A-1						
5715	A-6 GRAB				0.98		0.98
5716	A-7 GRAB — ALL TAKEN 1400 FEET EAST OF LINE A-1				0.48		0.48
5717	A-8 GRAB				1.88		1.89
5718	LINE A-4	0'	5'	5'	0.33	1.65	
5719	1670 FEET EAST OF LINE A-1	5'	10'	5'	1.00	5.00	
5720		10'	15'	5'	0.48	2.40	
5721		15'	20'	5'	TR	0.00	
5722		20'	25'	5'	0.30	1.50	
5723		25'	30'	5'	0.12	0.60	
				30'		11.15	0.37
5724	LINE A-5	0	5	5'	1.11	5.55	
5725	1670 FEET EAST OF LINE A-1	5	10	5'	0.29	1.43	
5726		10	15	5'	0.79	3.95	
5727		15	17	2'	TR	0.00	
				17'		10.95	0.64

ASSAY No.	LOCATION	FROM	TO	WIDTH	ASSAY % WO3	WIDTH X ASSAY	AVER. ASSAY
	FOLLOWING SAMPLES FROM SKARN ZONE WHICH OVERLIES SHOWING #2.						
5728	A-9 GRAB 30' ABOVE LINE A-5				0.21		
5729	A-10 GRAB 100' WEST OF A-9				0.27		
5730	A-10-1 GRAB 10' BELOW A-10				0.63		
5731	A-11 GRAB 100' WEST OF A-10				0.14		
5732	A-11-1 SAME AS A-11				0.55		
5733	A-11-2 20' WEST OF A-11 10' LOWER (GRAB)				0.34		
5734	A-12 30' ABOVE LINE A-3 (GRAB)				0.10		
5735	A-12-1 20' LOWER THAN A-12 (GRAB)				1.58		
5736	A-13 166' WEST OF A-12 (GRAB)				0.30		
5737	A-14 70' WEST OF A-13 (GRAB)				0.46		
5738	A-15 170' WEST OF A-14 (GRAB)				1.11		
5739	A-15-1 30' WEST OF A-15 (GRAB)				0.70		
5740	A-16 100' WEST OF A-15-1 (GRAB)				1.59		
5741	ED-1				0.28		
5742	ED-2				TR		
5743	ED-3				0.08		
5744	ED-4				0.08		
5745	ED-5	ALL GRAB SAMPLES FROM RUST ZONE AT EXTREME EAST END OF CIRQUE			0.37		
5746	ED-6				1.82		
5747	ED-7				2.00		
5748	ED-8				TR		
5749	ED-9				TR		
5750	ED-10				0.28		
5851	ED-11				0.54		
5852	ED-12				0.10		

ASSAY RESULTS- CAB Group - Coast Eldridge Assa

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO_3	WIDTH X ASSAY	AVER. ASSAY.
5770	LINE # 1	0'	5'	5'	0.75	3.75	
5771	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.36	1.80	
5772		10'	15'	5'	4.21	21.05	
5773		15'	20'	5'	0.89	4.45	
5774		20'	25'	5'	-		
				25.0'		31.05	1.24
5775	LINE # 2	0'	5'	5'	0.18	.90	
5776	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.36	1.80	
5777	125 FEET NORTH OF LINE #1	10'	15'	5'	0.27	1.35	
5778		15'	20'	5'	0.55	2.75	
5779		20'	25'	5'	1.02	5.10	
5780		25'	30'	5'	0.46	2.30	
5781		30'	35'	5'	0.38	1.90	
5782		35'	40'	5'	0.64	3.20	
				40'		19.30	.48
5783	LINE # 3	0'	5'	5'	0.84	4.20	
5784	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.68	3.40	
5785	135 FEET SOUTH OF LINE #1	10'	15'	5'	0.68	3.40	
5786		15'	20'	5'	0.85	4.25	
				20'		15.25	.76
5787		30'	35'	5'	0.90		
5789	A-1 GRABS	0'	5'	5'	0.16	.80	
5790	90' WEST OF LINE A-1 CHIP	5'	10'	5'	0.50	2.50	
5791	SHOWING # 2	10'	15'	5'	0.16	.80	
5792		15'	20'	5'	0.32	1.55	
5793		20'	25'	5'	0.15	.75	
				25'		6.40	.25
5794	LINE A-1 CHIP	0'	5'	5'	0.62	3.10	
5795	SHOWING # 2	5'	10'	5'	0.82	4.10	
5796		10'	15'	5'	0.21	1.05	
5797		15'	20'	5'	1.12	5.60	
5798		20'	25'	5'	0.60	3.00	
				25'		16.85	.67
5799	A-2 GRAB 470 FEET EAST OF LINE A-1 SHOWING #2				0.16		

ASSAY RESULTS - CAB Group - Coast Eldridge Assays

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO_3	WIDTH X ASSAY	AVER. ASSAY
5800	LINE A-2 CHIP	0'	5'	5'	0.43	2.15	
5701	760 FEET EAST OF LINE A-1	5'	10'	5'	0.27	1.35	
5702	SHOWING #2	10'	15'	5'	0.70	3.50	
5703		15'	20'	5'	0.53	2.65	
5704		20'	25'	5'	1.01	5.05	
				25'		14.60	.58
5705	A-3 GRAB				0.66		
5706	A-3-1 GRAB				0.27		
	BOTH SAMPLES FROM SAME OUTCROP - 1000' EAST OF LINE A-1						
5707	A-4 GRAB				1.44		
	1200 FEET FROM LINE A-1 (EAST)						
5708	LINE A-3	0'	5'	5'	1.16	5.80	
5709	1300 FEET FROM LINE A-1 (EAST)	5'	10'	5'	0.93	4.65	
5710		10'	15'	5'	0.76	3.80	
5711		15'	20'	5'	0.52	2.60	
5712		20'	25'	5'	0.41	2.05	
5713		25'	30'	5'	0.02	.10	
				30'		19.00	.63
5714	A-5 GRAB				3.16		
	1335 FEET EAST OF LINE A-1						
5715	A-6 GRAB				0.51		
5716	A-7 GRAB ALL TAKEN 1400 FEET EAST				0.41		
5717	A-8 GRAB OF LINE A-1				0.13		
5718	LINE A-4	0'	5'	5'	0.45	2.25	
5719	1670 FEET EAST OF LINE A-1	5'	10'	5'	0.08	.40	
5720		10'	15'	5'	0.17	.80	
5721		15'	20'	5'	0.07	.35	
5722		20'	25'	5'	0.05	.25	
5723		25'	30'	5'	0.33	1.65	
				30'		5.75	.19
5724	LINE A-5	0	5	5'	0.51	2.55	
5725	1670 FEET EAST OF LINE A-1	5	10	5'	0.19	.95	
5726		10	15	5'	0.10	.50	
5727		15	17	2'	0.02	.04	
				17'		4.04	.23

ASSAY RESULTS - CAB Group - Coast Eldridge Assays

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % NiO_3	WIDTH X ASSAY	AVER. ASSAY
	FOLLOWING SAMPLES FROM SKARN ZONE WHICH OVERLIES SHOWING #2.						
5728	A-9 GRAB 30' ABOVE LINE A-5				0.37		
5729	A-10 GRAB 100' WEST OF A-9				0.19		
5730	A-10-1 GRAB 10' BELOW A-10				0.54		
5731	A-11 GRAB 100' WEST OF A-10				0.38		
5732	A-11-1 SAME AS A-11				0.59		
5733	A-11-2 20' WEST OF A-11 10' LOWER (GRAB)				0.69		
5734	A-12 30' ABOVE LINE A-3 (GRAB)				0.01		
5735	A-12-1 20' LOWER THAN A-12 (GRAB)				0.64		
5736	A-13 166' WEST OF A-12 (GRAB)				0.53		
5737	A-14 70' WEST OF A-13 (GRAB)				0.64		
5738	A-15 170' WEST OF A-14 (GRAB)				0.78		
5739	A-15-1 30' WEST OF A-15 (GRAB)				0.47		
5740	A-16 100' WEST OF A-15-1 (GRAB)				0.39		
5741	ED-1				0.01		
5742	ED-2				0.06		
5743	ED-3				0.39		
5744	ED-4				0.24		
5745	ED-5				0.27		
5746	ED-6				0.52		
5747	ED-7				0.92		
5748	ED-8				0.12		
5749	ED-9				0.02		
5750	ED-10				0.30		
5851	ED-11				0.33		
5852	ED-12				0.33		

ALL GRAB SAMPLES FROM RUST ZONE AT EXTREME EAST END OF CIRQUE

ASSAY RESULTS - CAB Group - Cantung

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO_3	WIDTH X ASSAY	AVER. ASSAY.
5770	LINE # 1	0'	5'	5'	2.25	11.25	
5771	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.06	0.30	
5772		10'	15'	5'	2.85	14.25	
5773		15'	20'	5'	0.51	2.55	
5774		20'	25'	5'	0.10	0.50	
				25.0'		28.85	1.15
5775	LINE #2	0'	5'	5'	0.08	0.40	
5776	CONTINUOUS CHIP - SHOWING #1	5'	10'	5'	0.72	360	
5777	125 FEET NORTH OF LINE #1	10'	15'	5'	0.21	1.05	
5778		15'	20'	5'	0.18	0.90	
5779		20'	25'	5'	0.99	4.95	
5780		25'	30'	5'	0.59	2.95	
5781		30'	35'	5'	0.22	1.10	
5782		35'	40'	5'	0.31	1.55	
				40'		16.50	0.41
5783	LINE # 3	0'	5'	5'	0.91	4.55	
5784	CONTINUOUS CHIP - SHOWING # 1	5'	10'	5'	0.50	2.50	
5785	135 FEET SOUTH OF LINE #1	10'	15'	5'	0.44	2.20	
5786		15'	20'	5'	0.52	2.60	
				20'		11.85	0.59
5787		30'	35'	5'	0.54	2.70	0.50
5789	A-1 GRABS	0'	5'	5'	0.10	0.50	
5790	90' WEST OF LINE A-1 CHIP	5'	10'	5'	0.28	1.40	
5791	SHOWING # 2	10'	15'	5'	0.10	0.50	
5792		15'	20'	5'	0.12	0.60	
5793		20'	25'	5'	0.12	0.60	
				25'		3.60	0.14
5794	LINE A-1 CHIP	0'	5'	5'	1.04	5.20	
5795	SHOWING # 2	5'	10'	5'	0.62	3.10	
5796		10'	15'	5'	0.06	.30	
5797		15'	20'	5'	1.02	5.10	
5798		20'	25'	5'	0.98	4.90	
				25'		18.60	0.74
5799	A-2 GRAB				0.27		0.27
	470 FEET EAST OF LINE A-1						
	SHOWING # 2						

ASSAY RESULTS - CAB Group - Cantung

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO3	WIDTH X ASSAY	AVER. ASSAY
5800	LINE A-2 CHIP	0'	5'	5'	0.14	0.70	
5701	760 FEET EAST OF LINE A-1	5'	10'	5'	0.45	2.25	
5702	SHOWING #2	10'	15'	5'	0.84	4.20	
5703		15'	20'	5'	0.57	2.85	
5704		20'	25'	5'	1.39	6.95	
				25'		16.95	0.68
5705	A-3 GRAB				1.08		1.08
5706	A-3-1 GRAB				0.12		0.12
	BOTH SAMPLES FROM SAME OUTCROP - 1000' EAST OF LINE A-1						
5707	A-4 GRAB				0.83		0.83
	1200 FEET FROM LINE A-1 (EAST)						
5708	LINE A-3	0'	5'	5'	1.21	6.05	
5709	1300 FEET FROM LINE A-1 (EAST)	5'	10'	5'	1.10	5.50	
5710		10'	15'	5'	0.46	2.30	
5711		15'	20'	5'	0.27	1.35	
5712		20'	25'	5'	0.58	2.90	
5713		25'	30'	5'	TR	0.00	
				30'		18.10	0.60
5714	A-5 GRAB				TR		TR
	1335 FEET EAST OF LINE A-1						
5715	A-6 GRAB				0.98		0.98
5716	A-7 GRAB — ALL TAKEN 1400 FEET EAST OF LINE A-1				0.48		0.48
5717	A-8 GRAB				1.88		1.89
5718	LINE A-4	0'	5'	5'	0.33	1.65	
5719	1670 FEET EAST OF LINE A-1	5'	10'	5'	1.00	5.00	
5720		10'	15'	5'	0.48	2.40	
5721		15'	20'	5'	TR	0.00	
5722		20'	25'	5'	0.30	1.50	
5723		25'	30'	5'	0.12	0.60	
				30'		11.15	0.37
6724	LINE A-5	0	5	5'	1.11	5.55	
5725	1670 FEET EAST OF LINE A-1	5	10	5'	0.29	1.45	
5726		10	15	5'	0.79	3.95	
5727		15	17	2'	TR	0.00	
				17'		10.95	0.64

ASSAY RESULTS - CAB Group - Cantung

ASSAY NO.	LOCATION	FROM	TO	WIDTH	ASSAY % WO3	WIDTH X ASSAY	AVER. ASSAY
	FOLLOWING SAMPLES FROM SKARN ZONE WHICH OVERLIES SHOWING #2.						
5728	A-9 GRAB 30' ABOVE LINE A-5				0.21		
5729	A-10 GRAB 100' WEST OF A-9				0.27		
5730	A-10-1 GRAB 10' BELOW A-10				0.63		
5731	A-11 GRAB 100' WEST OF A-10				0.14		
5732	A-11-1 SAME AS A-11				0.55		
5733	A-11-2 20' WEST OF A-11 10' LOWER (GRAB)				0.34		
5734	A-12 30' ABOVE LINE A-3 (GRAB)				0.10		
5735	A-12-1 20' LOWER THAN A-12 (GRAB)				1.58		
5736	A-13 166' WEST OF A-12 (GRAB)				0.30		
5737	A-14 70' WEST OF A-13 (GRAB)				0.46		
5738	A-15 170' WEST OF A-14 (GRAB)				1.11		
5739	A-15-1 30' WEST OF A-15 (GRAB)				0.70		
5740	A-16 100' WEST OF A-15-1 (GRAB)				1.59		
5741	ED-1				0.28		
5742	ED-2				TR		
5743	ED-3				0.08		
5744	ED-4				0.08		
5745	ED-5 ALL GRAB SAMPLES FROM				0.37		
5746	ED-6 RUST ZONE AT EXTREME				1.82		
5747	ED-7 EAST END OF CIRQUE				2.00		
5748	ED-8				TR		
5749	ED-9				TR		
5750	ED-10				0.28		
5851	ED-11				0.54		
5852	ED-12				0.10		

GEOCHEMISTRY

Soil sample lines were run on the Cab Group in an attempt to detect possible northwest and south extensions of the main zone. Two lines were run across the main mineralized zone to establish some control for the interpretation of further sampling. Thirty-four samples were collected across the main zone and a total of 194 samples during the entire survey.

Results from the mineralized area range from 0-200 ppm WO_3 but are generally 30-40 ppm WO_3. The values obtained on the reconnaissance lines were not as consistent as those on the control lines, but do show several anomalous areas. Erratic values are as high as 350 ppm WO_3. (See Geochem Values Fig.5)

CONCLUSIONS

Geologic mapping has outlined two mineralized diopside-skarn zones. The west zone is approximately 20 ft. thick and 400 ft. long, while the east zone is approximately 20 ft. thick and intermittently exposed for 3500 ft.

Assaying to date has shown that the mineralization is erratically located along the skarn horizons, and is generally of marginal grade. However, some sections give indications of much high grade material.

Geochemical soil sampling shows anomalous values both northwest and south of the main zone.

RECOMMENDATIONS

1. Further detailed geologic mapping on a very detailed topographic map 1"= 100 ft. with 10 ft. contour intervals or direct plotting on overlays of enlarged potographs of the cirque walls.

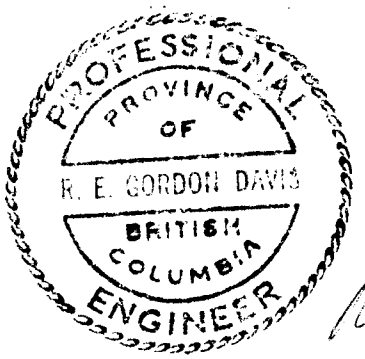
2. Trenching on both east and west zones, but with emphasis on the east zone. The trenching should be done by hand at regular intervals along the strike (possibly every 100 ft.). Continous chip sampling in 5 ft. sections should be carried out in these trenches.

3. Diamond drilling after the completion of detailed mapping and sampling. Drill locations to be chosen to test down dip continuation of encouraging assay data.

Respectfully submitted,

R. J. Darney
Geologist

March 10th, 1969



Appendix I

LIST OF PERSONNEL

R. J. Darney	Atlas Explorations Limited	New Westminster, B.C
J. S. Brock	Atlas Explorations Limited	West Vancouver, B.C.
P. Risby	Atlas Explorations Limited	Ross River, Y.T.
C. Fleming	Atlas Explorations Limited	Vancouver, B.C.
E. Dick	Atlas Explorations Limited	Ross River, Y.T.
D. Lyman	Archer, Cathro & Associates	Whitehorse, Y.T.
S. Sakai	Mitsui Mining & Smelting	Vancouver, B.C.
Kido	Mitsui Mining & Smelting	Vancouver, B.C.

CAB GROUP EXPENSES 1968-69

Property Examinations	$ 593.00
Prospecting	$ 748.06
Geochemical Surveys	$ 1,400.80
Geophysical Surveys	$ 16.73
Geological Surveys/Mapping	$ 4,659.97
Field Supervision	$ 185.36
Expediting	$ 474.52
	$ 8,078.44
Administration 15%	$ 1,211.77
TOTAL	$ 9,290.21

Appendix III

TELEPHONE 685-4331

ATLAS EXPLORATIONS LIMITED
(N.P.L.)
330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

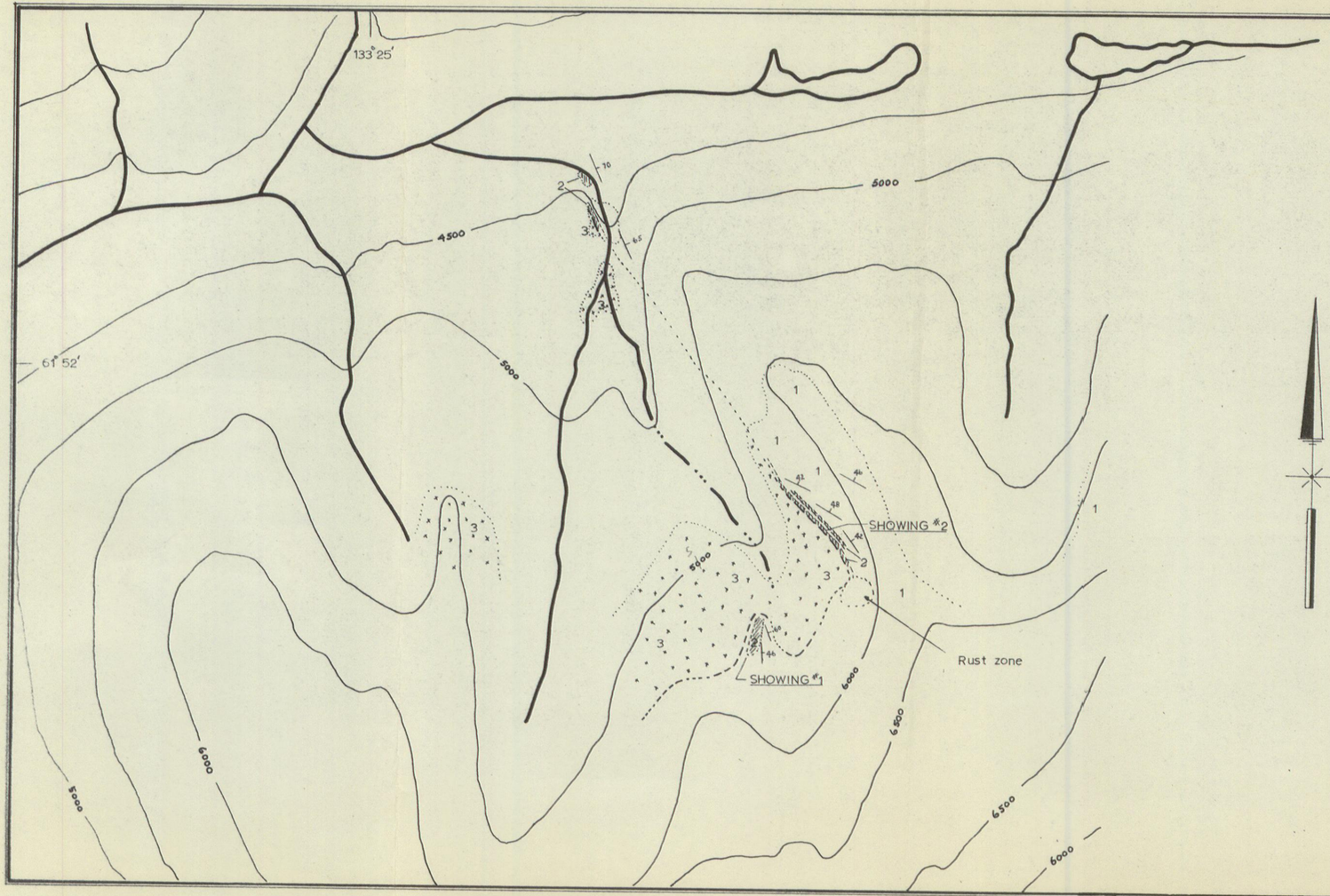
I, Robert J. Darney, Geologist, Atlas Explorations Limited, Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of costs presented with this report (Appendix II - "Geological and Geochemical Report, Cab Mineral Claim Group") is both correct and true.

R. J. Darney

April 2/69
Date

Commissioner of Oaths in
and for the Yukon Territory

FIG. 1



CAB MINERAL CLAIMS

GEOLOGY

SCALE 1" = 1/4 mi.

3. Medium-grained quartz monzonite

2. Fine-coarse grained garnet-diopside skarn with irregular pyrrhotite bands (massive) Scheelite mineralization

1 Interbedded quartzite, quartz-biotite schist, and limestone

Geological contact (defined, assumed)

Outcrop limits

Bedding

R.J.D.

FIG. 2

CAB GROUP

ROSS RIVER

YUKON TERRITORY

SCALE

1 : 1200 / 1" = 100'

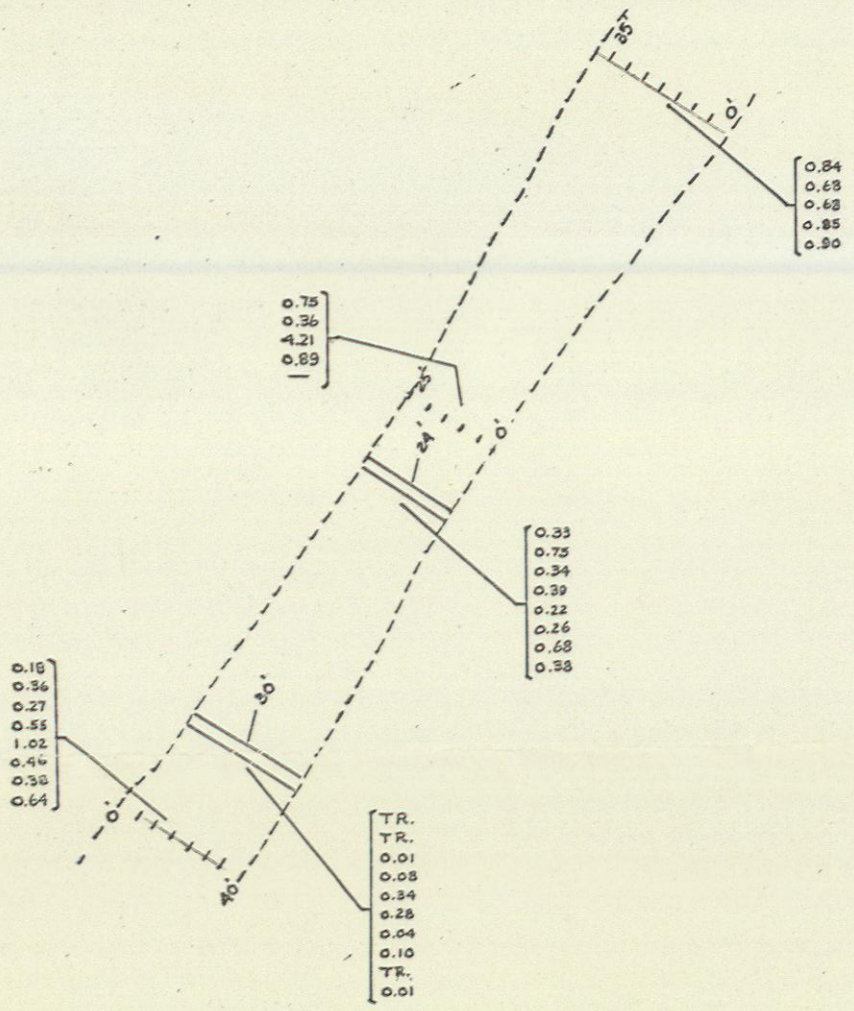
SEPT. 1968

granite

biotite gneiss, quartz-biotite schist, quartz-sericite schist

garnet - diopside skarn, diopside skarn

FIG. 3



LEGEND

3x3 PANEL SAMPLING BY D.A. LYMAN (SEPT. 1968)

CHANNEL SAMPLING BY R. DARNEY (AUGUST 1968)

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

R.T. AREA

CAB MINERAL CLAIM GROUP

ASSAY RESULTS

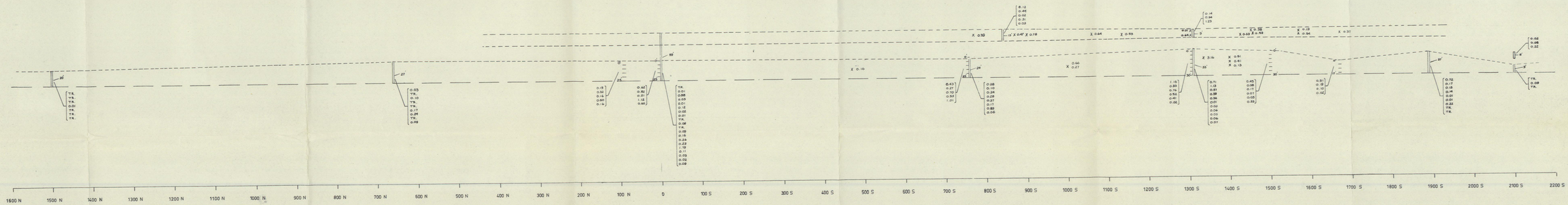
(WEST ZONE)

SCALE 1" = 50'

NOV. 28, 1968

R.D.

FIG. 4



LEGEND

||| 3 X 3 PANEL SAMPLING BY D.A.LYMAN (SEPTEMBER 1968)

TTT CHANNEL SAMPLING BY R.DARNEY (AUGUST 1968)

X GRAB SAMPLES BY R.DARNEY (AUGUST 1968)

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

R.T. AREA

CAB MINERAL CLAIM GROUP

ASSAY RESULTS

(EAST ZONE)

DATE: NOVEMBER 28, 1968. DRAWN BY: R.DARNEY

SCALES

STRIKE LENGTH 1"= 100'

WIDTH 1"= 50'

FIG. 5

ATLAS EXPLORATIONS LIMITED

ROSS RIVER (Y.T.)

SHELDON REGION

CAB MINERAL CLAIM GROUP

TUNGSTEN GEOCHEMICAL RESULTS IN P.P.M.

DRAWN BY: P.J.F. VLASVELD
DATE: MARCH 1969

1/2 0 1/2 1 MI

105-F-14