

LOG NO	1102	FD.
ACTION		
FILE NO:		

1989 SUMMARY REPORT
ON THE
BUSH GROUP

Located in the Tatsamenie Lake Area

Atlin Mining Division

NTS 104 K/8

58°23' North Latitude

132°29' West Longitude

SUB-RECORDER RECEIVED	
OCT 3 1989	
M.R. #	\$
VANCOUVER, B.C.	

-property owner-
TECK CORPORATION

-property operator-
TECK EXPLORATIONS LIMITED

-prepared by-
COAST MOUNTAIN GEOLOGICAL LTD.

-author-
Gary Schellenberg, B.Sc., Geology

October, 1989

19,259

GEOLOGICAL BRANCH
ASSESSMENT REPORT

TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SUMMARY	1
2.0 INTRODUCTION	
2.1 LOCATION AND ACCESS	1
2.2 TOPOGRAPHY AND CLIMATE	3
3.0 PROPERTY STATUS & HISTORY	
3.1 EXPLORATION HISTORY	
3.2 CLAIM STATUS	3
3.3 1989 WORK PROGRAM	5
4.0 PROPERTY GEOLOGY AND GEOCHEMISTRY	
4.1 PROPERTY GEOLOGY	5
4.2 GEOCHEMISTRY	8
5.0 DISCUSSION	9

APPENDICES

APPENDIX I	STATEMENT OF EXPENDITURES	10
APPENDIX II	GEOCHEMISTRY	11
APPENDIX III	ROCK SAMPLE DESCRIPTION	14
APPENDIX IV	STATEMENT OF QUALIFICATIONS	17
APPENDIX V	STATEMENT OF WORK AND GROUPING	18

LIST OF FIGURES

FIGURE 1	LOCATION MAP	2
FIGURE 2	CLAIM MAP	4
FIGURE 3	SILT SAMPLE LOCATIONS	6
FIGURE 4	ROCK SAMPLE LOCATIONS WITH GEOLOGY	7

LIST OF TABLES

TABLE 1	CLAIM SCHEDULE	5
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1.0 SUMMARY

Teck Corporation's Bush group encompasses the Bush and Whatnot claims which total 36 units. The project area, located approximately 90 kms northwest of Telegraph Creek, B.C. is covered by an augite porphyry volcanic unit thought to be Upper Triassic in age. Small bodies of rhyolite and diorite have been located but their extent is undetermined. Mineralization in the project area is restricted to quartz-carbonate veins and consists of disseminated pyrite, malachite staining, and minor chalcopyrite. From July 22 to July 24, 1989, a 3 man crew supplied by Coast Mountain Geological Ltd. worked on the Bush group and collected 24 rock samples and 42 silt samples. One quartz-carbonate vein collected during the 1989 field season assayed 370 ppb gold, 12348 ppm copper, and 5.8 ppm silver.

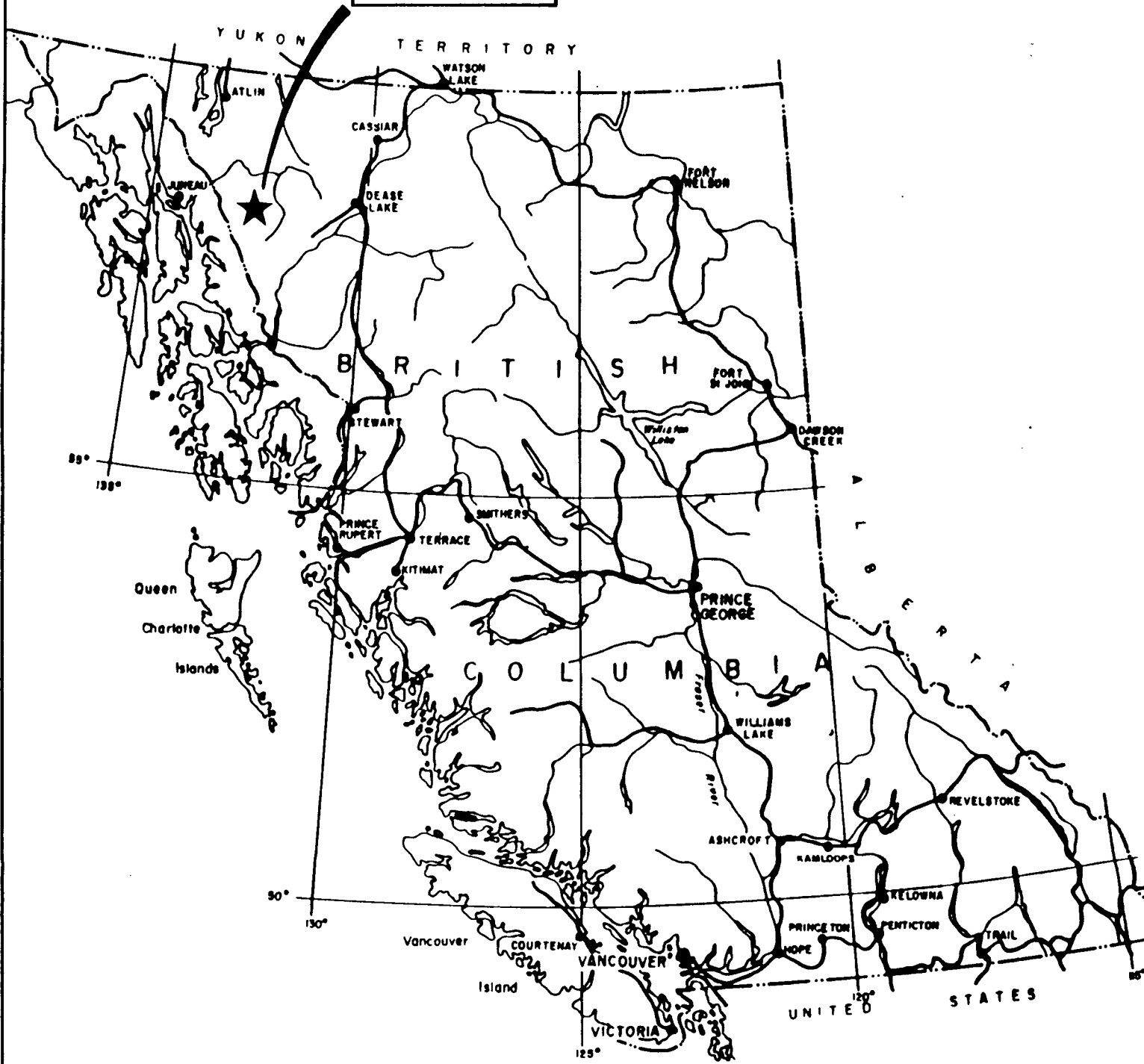
2.0 INTRODUCTION

2.1 LOCATION AND ACCESS

Teck Corporation's Bush group is situated west of Tatsamenie Lake, approximately 90 kms northwest of Telegraph Creek in northwest British Columbia (Figure 1). Meteatulin Mountain at 2,252 meters borders the western boundary of the group. Access to the property is via helicopter from Telegraph Creek.

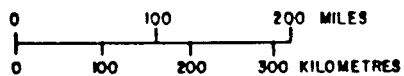
The Bush group is centered near Latitude 58 degrees 23' North and Longitude 132 degrees 29' West on NTS map sheet 104 K/8.

PROPERTY LOCATION



TECK EXPLORATIONS LTD.

BUSH AND WHATNOT
PROPERTY LOCATION MAP



Drawn B.K. N.T.S. 104K/8W Date OCT, '89 Figure 1

2.2 TOPOGRAPHY AND CLIMATE

The Bush group is located within the Chechidla Range which is situated near the western margin of the Coast Range Mountains. The claim area is in alpine terrain with elevations ranging from 1,350 meters to 1,800 meters above sea level.

Precipitation in the area is variable throughout the year with sudden and prolonged rain showers and snow flurries being common throughout the late summer and fall. Glaciation is present at higher elevations resulting in lower drainages being moraine filled. Mineral exploration is best conducted during the summer months of July, August and September with snow present during most other months.

Tree line is approximately 1,400 meters with vegetation above this consisting of sparse grasses and shrubs. Glaciation has exposed outcrop over portions of the claims while other areas are covered with glacial till and talus.

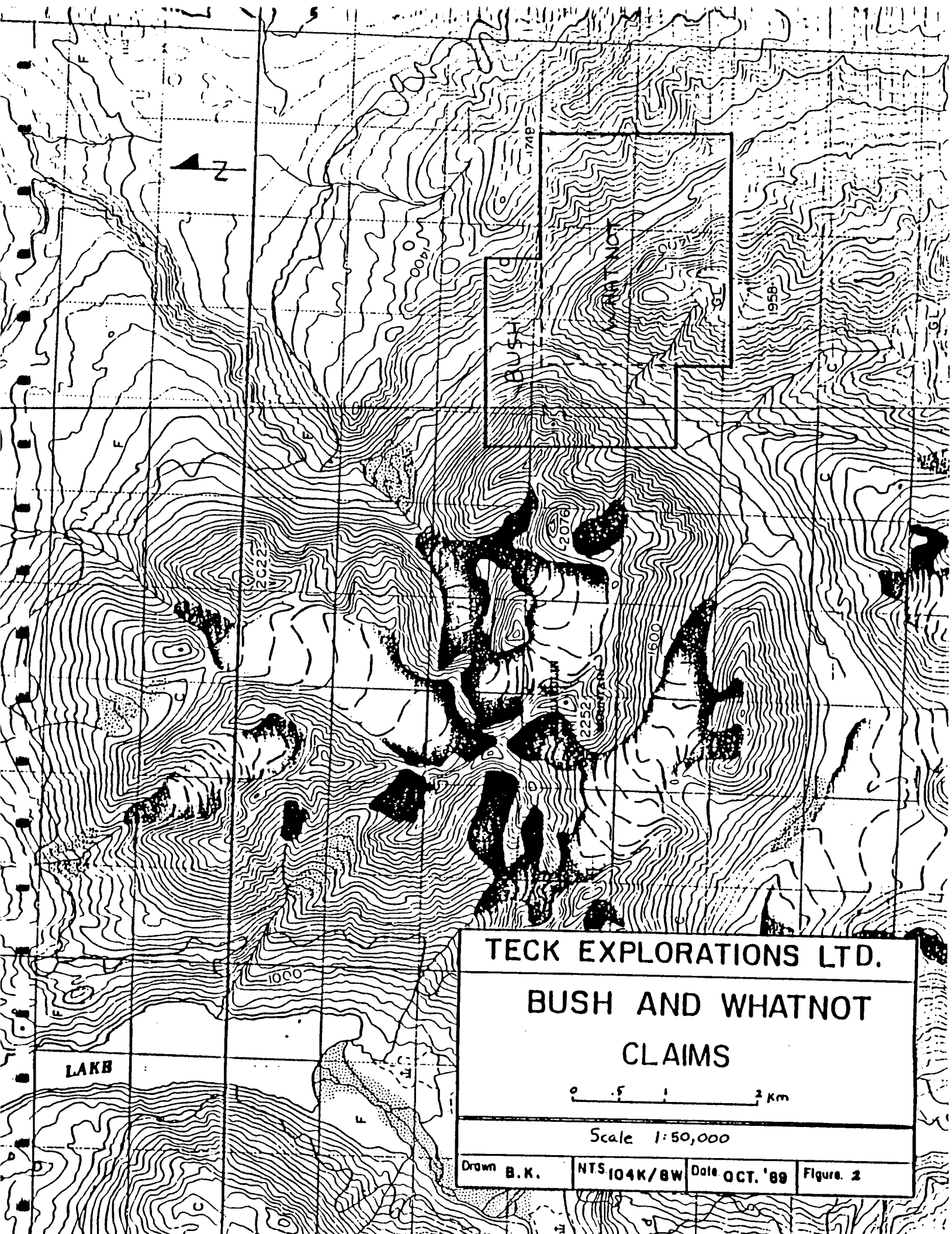
3.0 PROPERTY STATUS

3.1 EXPLORATION HISTORY

No documentation of mineral exploration in the Bush and Whatnot claim area has been reported. Teck Corporation staked the Bush claim group as a result of a 1988 government geochemical silt survey release.

3.2 CLAIM STATUS

The Bush group consists of 36 units comprising the Bush and Whatnot claims in the Atlin Mining Division. The Bush claim is a 4x4 while the Whatnot a 5x4 modified grid claim.



TECK EXPLORATIONS LTD.
BUSH AND WHATNOT
CLAIMS

0 .5 1 2 km

Scale 1:50,000

Drawn B.K.	NTS 104K/BW	Date OCT. '89	Figure. 2
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TABLE I

CLAIM SCHEDULE

<u>Claim</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Units</u>
Bush	3357	2 Aug 1991	16
Whatnot	3407	24 Aug 1991	<u>20</u>
Bush (grouped)			36

3.2 1989 WORK PROGRAM

From July 22 to July 24 a 3 man crew worked on the Bush group. Work consisted of prospecting, geologic mapping, and silt sampling (Figures 3,4).

Samples collected are as follows:

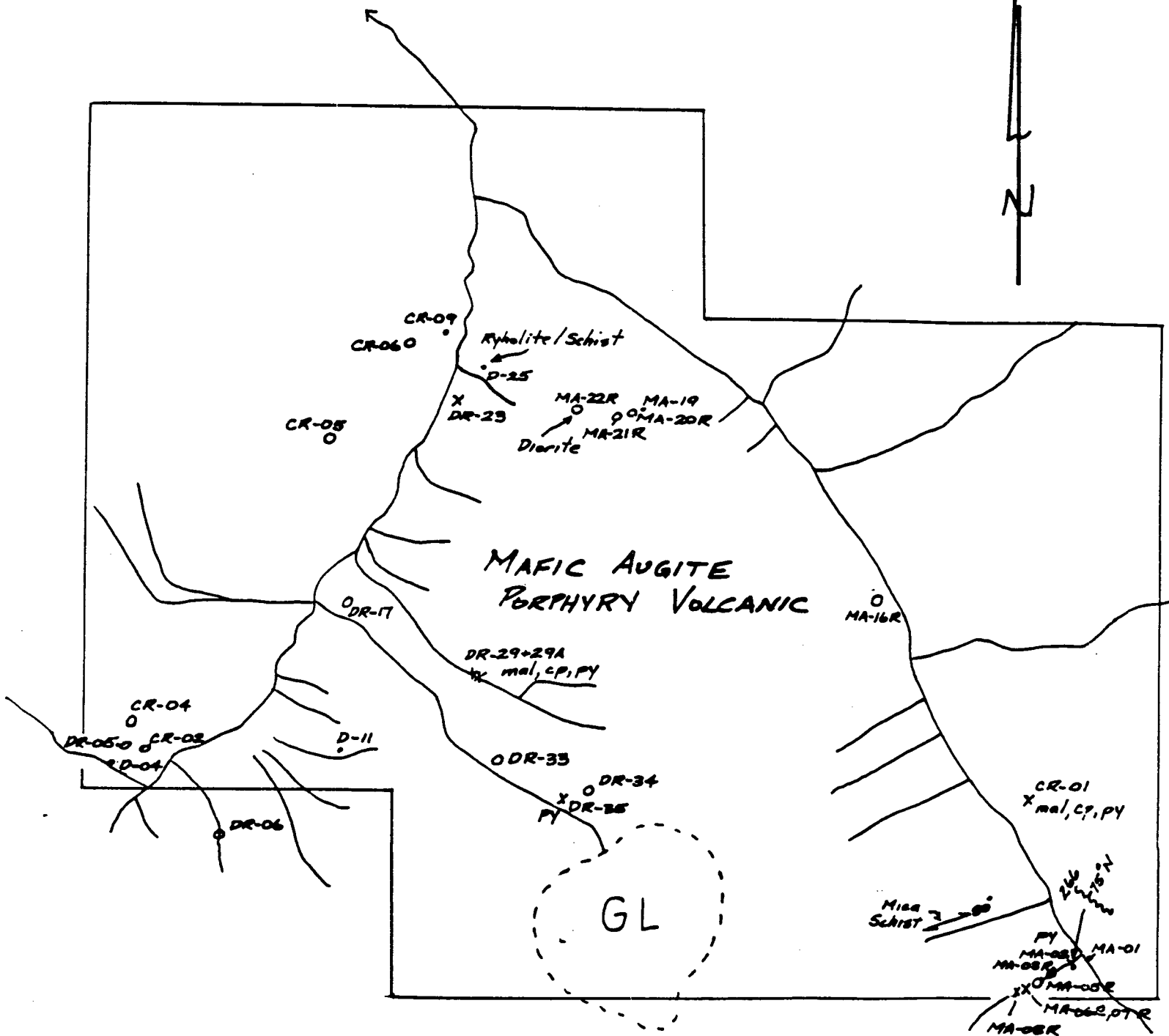
Samples on Bush Claim:	6 rock samples 19 silt samples
Samples on Whatnot Claim:	18 rock samples 23 silt samples

4.0 PROPERTY GEOLOGY AND GEOCHEMISTRY

4.1 PROPERTY GEOLOGY

The main and almost singular rock type on the Bush group is a massive, mafic augite porphyry volcanic thought to be Upper Triassic in age (Figure 4). In a few places it has been sheared and metamorphosed to a schist but is generally unaltered.

A small body of medium to fine grained, unaltered diorite occurs in the northwest corner of the Whatnot claim (Figure 4). The extent of the intrusion has not been determined.



- HAND SAMPLE
- FLOAT SAMPLE
- x GRAB SAMPLE

0 .25 .5 1.0 Kms.

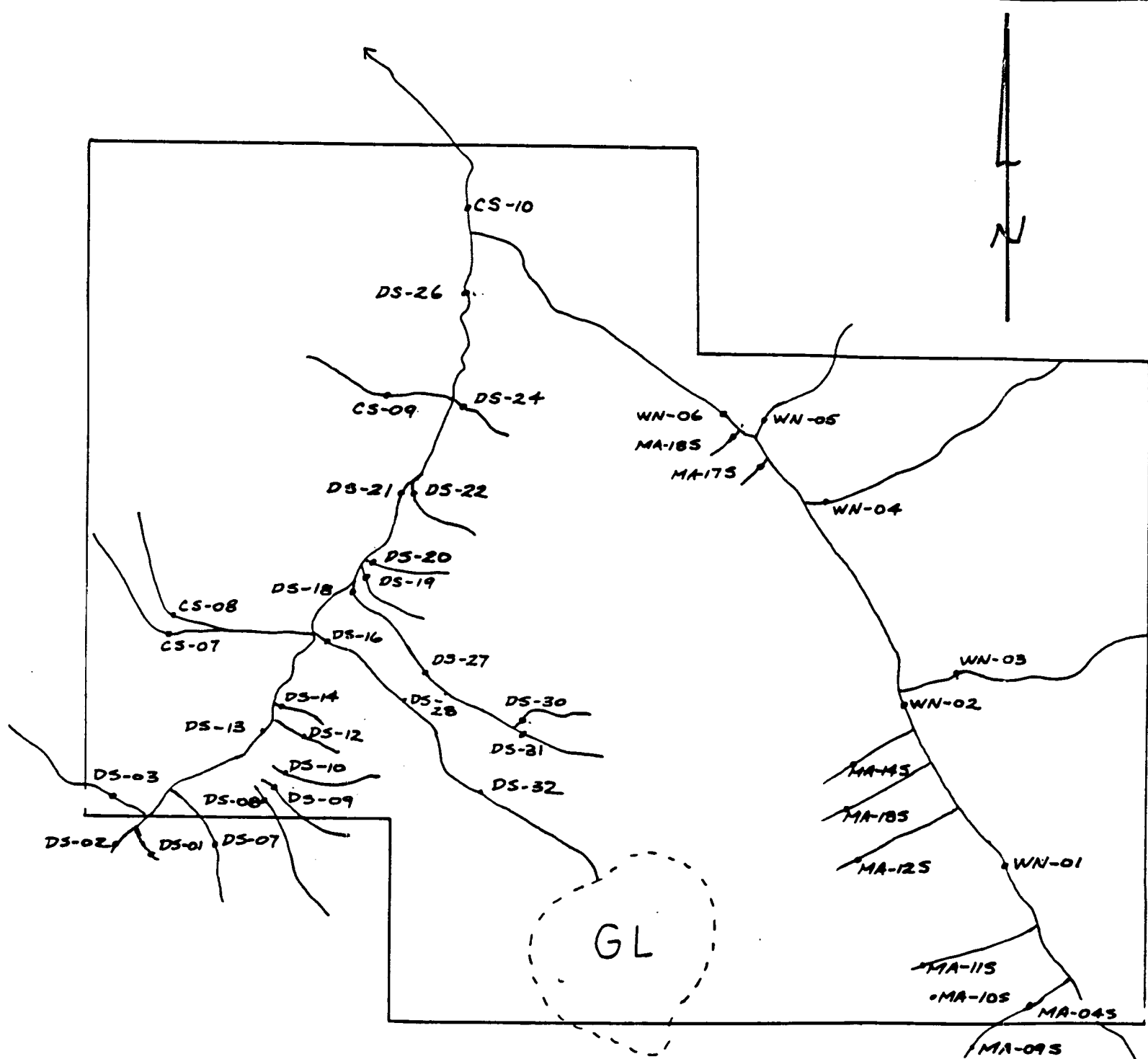
TECK EXPLORATIONS LTD.

BUSH-WHATNOT CLAIMS

LIARD M.D. B.C.

ROCK SAMPLE PLAN
(W/ GEOLOGY) FIG 4

COAST MOUNTAIN GEOLOGICAL
AUG. 1989 BY M.A.



0 .25 .5 1.0 Kms.

TECK EXPLORATIONS LTD.

BUSH-WHATNOT CLAIMS

LIARD M.D. B.C.

SILT SAMPLE PLAN

FIG 3

COAST MOUNTAIN GEOLOGICAL

AUG. 1989

BY M.A.

A small rhyolite dyke in contact between mafic volcanics and chlorite schist outcrops to the west of the diorite.

Mineralization occurs chiefly within quartz veins. These are often barren but contain salmon coloured feldspar and calcite. Mineralization consists of disseminated pyrite, malachite staining, and traces of chalcophyrite.

4.2 GEOCHEMISTRY

Rock and silt samples collected on the Bush group were sent to Acme Analytical Laboratories Ltd. in Vancouver, B.C. to be assayed. The certified results were obtained by use of the ICP analytical method. All samples with values above 10,000 ppm are considered to be conservative values and should be assayed for correct results.

Of the 42 silts collected and assayed from the Bush group, several returned elevated values in gold and copper. The values range from 450 ppb gold with 76 ppm copper to 47 ppb gold with 199 ppm copper.

Several rock samples returned anomalous values with regard to gold, copper, and silver. Sample 89-DR-29 (Figure 4), a quartz-carbonate vein containing pyrite, malachite, and minor chalcophyrite contained values of 370 ppb gold, 12348 ppm copper, and 5.8 ppm silver. Other anomalous rock values range from 310 ppb gold, 10884 ppm copper, and 3.9 ppm silver (sample MA-89-21 R) to 4 ppb gold, 24095 ppm copper, and 14.5 ppm silver (sample

MA-89-22 R). Both of these rocks are quartz vein float samples containing disseminated pyrite and malachite.

5.0 DISCUSSION

The 1989 work program on the Bush group provided a general coverage of the property. Assay results from silt and rock samples collected provide encouragement for further work on the claims. Also, many of the rock samples were not found in-place and should be traced to outcrop.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'G. Schellenberg', with a long horizontal flourish extending to the right.

Gary Schellenberg, B.Sc.
Geologist

APPENDIX I

STATEMENT OF EXPENDITURES

STATEMENT OF EXPLORATION EXPENSES

Mob/Demob	pro rata	\$ 796.45
Geologist	3 days @ \$215	645.00
*(M. Archambault)	July 22-24, 1989	
Prospector	3 days @ \$190	570.00
*(D. Ridley)	July 22-24, 1989	
Labourer	3 days @ \$175	525.00
*(C. Ridley)	July 22-24, 1989	
Communications	pro rata	98.08
Equipment	pro rata	152.20
Room and Board		562.68
Vehicle	3 days @ \$30/day	90.00
Project Prep and Summary		100.00
Helicopter	4.2 hrs. @ \$655/hr.	2,751.00
Rock Samples	24 @ \$15	360.00
Silt Samples	42 @ \$13	546.00
Freight		40.94
Report and Analysis		750.00
TOTAL		<u>\$7,987.35</u>

* M. Archambault, D. Ridley, and C. Ridley are employees of Coast Mountain Geological Ltd. of Suite 820-650 West Georgia Street in Vancouver, B.C. who was contracted by the operator to conduct the above work program.

APPENDIX II

GEOCHEMISTRY

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 1-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR NG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P2 SILT P3 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 16 1989 DATE REPORT MAILED: Aug 26/89 SIGNED BY: C. Long, D. TOYE, C. LONG, J. WANG; CERTIFIED B.C. ASSAYERS

TECK EXPLORATION PROJECT BUSH File # 89-2962 Page 1

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MR	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	NG	BA	TI	B	AL	NA	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
89-DS-01	2	151	9	54	.3	94	35	573	6.22	150	5	ND	1	44	1	2	3	92	2.01	.097	5	114	1.77	45	.10	2	1.74	.01	.04	8	182
89-DS-02	1	121	2	47	.1	57	27	453	6.23	74	5	ND	1	51	1	2	2	225	2.62	.053	2	80	1.27	24	.11	7	1.45	.02	.04	2	21
89-DS-03	1	156	9	65	.1	222	40	775	5.50	14	5	ND	1	43	1	2	2	155	1.67	.145	2	470	5.26	71	.19	6	3.75	.01	.42	2	7
89-DS-07	1	101	5	65	.1	217	30	569	4.29	25	5	ND	1	56	1	2	2	124	.79	.078	2	341	3.89	93	.11	5	2.51	.01	.15	1	6
89-DS-08	1	146	9	62	.1	172	32	723	4.77	14	5	ND	1	55	1	2	2	109	.98	.109	2	389	4.67	61	.15	5	3.27	.01	.24	1	6
89-DS-09	1	127	10	62	.1	180	32	644	4.52	28	5	ND	1	59	1	2	2	122	.88	.095	2	386	4.64	54	.13	7	3.30	.01	.21	1	11
89-DS-10	1	123	8	57	.1	136	32	701	4.67	13	5	ND	1	27	1	2	2	99	.70	.064	2	333	4.23	39	.13	6	3.02	.01	.17	1	7
89-DS-12	1	114	5	83	.1	140	29	950	4.60	21	5	ND	2	34	1	2	2	106	.63	.071	3	243	3.26	92	.13	5	2.60	.01	.13	1	5
89-DS-13	1	171	19	47	.1	81	46	428	10.82	149	5	ND	1	42	1	2	3	380	1.96	.059	2	103	1.13	30	.14	4	1.30	.01	.03	4	28
89-DS-14	1	107	4	55	.2	130	29	548	3.77	24	5	ND	2	50	1	2	2	77	1.60	.070	2	237	3.22	46	.12	13	2.31	.01	.16	1	4
89-DS-16	1	137	4	53	.1	106	29	515	3.69	9	5	ND	1	23	1	2	2	67	.61	.058	2	270	3.56	55	.14	4	2.67	.01	.21	1	3
89-DS-18	1	124	9	55	.1	60	22	472	4.72	62	5	ND	1	50	1	2	2	150	2.57	.068	3	82	1.38	33	.10	11	1.52	.02	.04	1	36
89-DS-19	1	115	3	56	.1	118	32	572	3.99	6	5	ND	1	27	1	2	3	79	.72	.059	2	299	3.87	63	.15	8	2.80	.01	.22	1	8
89-DS-20	1	113	7	78	.1	50	27	916	5.51	28	5	ND	1	28	1	2	2	131	.57	.054	2	113	2.24	91	.10	2	2.44	.01	.11	1	21
89-DS-21	1	124	13	49	.2	70	26	503	5.26	76	5	ND	1	52	1	2	2	165	2.65	.061	3	92	1.50	25	.10	7	1.57	.01	.03	1	28
89-DS-22	1	76	10	70	.1	39	17	690	4.73	33	5	ND	1	38	1	2	2	111	.75	.069	4	79	1.16	211	.06	8	1.36	.01	.07	1	450
89-DS-24	1	127	13	78	.2	87	21	512	4.32	49	5	ND	1	33	1	2	2	103	.93	.079	5	177	2.32	56	.08	9	2.56	.01	.06	1	19
89-DS-26	1	119	8	46	.3	68	23	534	4.61	59	5	ND	1	57	1	2	4	136	2.88	.067	3	95	1.64	28	.09	11	1.68	.02	.04	1	21
89-DS-27	1	122	6	59	.1	127	35	576	4.08	10	5	ND	3	31	1	2	2	79	.85	.063	2	292	4.05	52	.14	5	2.87	.01	.22	1	9
89-DS-28	1	129	2	65	.1	124	32	620	4.20	7	5	ND	1	30	1	2	2	76	.94	.064	2	293	4.06	53	.15	3	3.05	.01	.26	1	6
89-DS-30	1	146	8	62	.1	139	35	702	4.54	10	5	ND	1	30	1	2	2	87	1.00	.068	2	339	4.12	67	.15	2	3.11	.01	.22	1	74
89-DS-31	1	129	4	54	.2	122	33	639	4.27	12	5	ND	3	28	1	2	2	89	.66	.060	2	359	4.12	62	.15	5	2.94	.01	.21	1	13
89-DS-32	1	142	7	59	.2	130	32	654	4.51	6	5	ND	4	27	1	2	2	83	.70	.063	2	349	4.56	45	.15	10	3.27	.01	.19	2	3
89-WM-01	1	34	2	31	.4	26	7	353	2.76	7	5	ND	3	29	1	3	2	69	1.20	.166	11	37	.72	40	.05	14	.53	.01	.03	1	8
89-WM-02	1	35	2	29	.3	22	8	342	2.63	6	5	ND	1	30	1	2	3	66	1.20	.165	11	30	.61	46	.04	3	.49	.01	.03	1	3
89-WM-03	1	111	5	53	.1	159	27	459	4.58	7	5	ND	1	39	1	2	2	101	.62	.063	2	536	2.17	56	.10	10	1.55	.02	.12	1	2
89-WM-04	1	76	2	53	.1	192	24	430	4.48	7	5	ND	2	35	1	2	2	105	.68	.099	6	640	2.46	54	.08	11	1.24	.02	.07	1	2
89-WM-05	1	88	2	63	.1	378	32	394	4.44	7	5	ND	3	31	1	2	2	101	.66	.050	2	750	4.44	40	.10	6	2.14	.01	.14	1	2
89-WM-06	1	47	2	34	.1	47	10	450	2.13	5	5	ND	1	35	1	2	2	46	1.25	.131	10	42	1.25	57	.05	8	.75	.02	.05	1	3
89-CS-07	1	129	9	72	.1	150	33	824	4.98	25	5	ND	1	22	1	2	2	115	.75	.070	2	282	3.91	14	.14	2	3.10	.01	.05	1	8
89-CS-08	1	146	9	65	.4	226	38	722	5.21	32	5	ND	2	32	1	2	2	123	1.11	.109	3	413	5.35	47	.13	3	3.36	.01	.19	2	9
89-CS-09	1	137	8	65	.3	152	38	682	4.82	13	5	ND	2	27	1	2	2	90	.62	.056	2	394	4.95	23	.15	7	3.52	.01	.15	1	91
89-CS-10	1	110	2	44	.5	51	19	430	3.73	29	5	ND	1	43	1	2	2	115	2.19	.072	3	78	1.30	31	.09	4	1.33	.02	.05	2	13
NA-89-04S	1	123	8	48	.5	171	31	572	3.86	12	5	ND	1	31	1	2	2	68	.74	.075	2	288	3.82	61	.13	8	2.50	.01	.24	1	6
NA-89-09S	1	167	8	69	.5	148	36	667	4.54	11	5	ND	2	22	1	2	2	74	.74	.061	2	317	3.97	182	.16	4	3.35	.01	.37	2	5
NA-89-10S	1	161	7	63	.5	148	33	568	4.37	5	25	ND	3	23	1	2	2	71	.72	.062	2	325	4.20	105	.15	4	3.37	.01	.41	1	4
STD C/AU-S	19	60	42	133	6.6	67	33	1020	4.01	40	22	7	35	49	18	14	17	60	.48	.089	39	57	.91	178	.07	35	1.95	.06	.13	11	53

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	V	Ag*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
MA-89-11S	1	114	2	54	.1	130	30	484	4.54	2	5	ND	1	31	1	2	2	100	.66	.085	2	324	5.15	73	.18	2	3.62	.01	.35	1	5
MA-89-12S	1	169	2	72	.1	119	34	906	4.83	9	5	ND	1	21	1	2	2	94	.80	.065	2	318	3.48	114	.18	2	3.28	.01	.34	1	8
MA-89-13S	1	156	2	112	.1	66	31	1147	5.58	21	5	ND	1	41	1	2	2	132	.77	.054	2	171	3.14	96	.18	4	3.30	.01	.22	1	5
MA-89-14S	1	176	3	144	.3	63	28	1031	5.28	20	5	ND	1	29	1	2	2	120	.79	.051	3	161	2.88	77	.18	5	3.27	.01	.14	1	10
MA-89-17S	1	199	2	86	.1	55	27	1008	5.18	13	5	ND	1	29	1	2	2	125	.75	.061	2	132	2.52	88	.17	3	2.97	.01	.17	1	47
MA-89-18S	1	188	2	87	.2	44	27	962	5.79	14	5	ND	1	21	1	4	2	142	.65	.066	4	87	2.01	129	.11	3	2.71	.01	.18	1	22

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	W1 PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	V PPM	Au* PPM
89-DR-05	4	103	12	34	.2	35	23	784	5.45	16	5	ND	1	48	1	2	2	125	3.75	.081	2	91	1.27	10	.15	4	1.56	.01	.07	1	13
89-DR-06	11	14	6	17	.1	14	34	84	7.39	96	5	ND	1	14	1	2	2	44	.37	.103	10	14	.17	14	.01	2	.30	.01	.05	1	2
89-DR-17	1	3121	6	16	.4	37	46	348	2.88	12	5	ND	1	44	1	2	3	20	9.35	.023	3	22	.43	1	.01	4	.48	.01	.01	1	210
89-DR-23	1	113	2	83	.3	15	25	751	6.70	107	5	ND	1	40	1	2	2	154	1.90	.084	2	20	1.93	42	.05	8	2.45	.02	.13	1	10
89-DR-23	1	12348	7	85	5.8	695	95	898	6.65	25	5	ND	1	89	5	2	2	110	10.79	.070	2	105	2.67	52	.02	3	2.35	.01	.03	1	370
89-DR-29A	8	662	11	37	.7	140	110	925	5.66	41	5	ND	1	83	1	2	2	94	4.97	.031	2	174	2.51	27	.01	7	2.32	.01	.08	1	39
89-DR-33	1	8	2	11	.1	12	28	445	2.53	2	5	ND	1	84	1	2	2	38	9.41	.096	3	9	.96	3	.05	3	.93	.02	.01	2	8
89-DR-34	1	48	6	7	.2	7	15	715	2.38	2	5	ND	1	158	1	2	2	38	9.13	.088	2	7	.67	29	.01	10	.65	.02	.05	1	16
89-DR-35	1	435	6	11	.2	46	180	792	4.04	11	5	ND	1	165	1	2	2	58	17.55	.066	2	22	.71	3	.01	3	.66	.02	.01	1	3
89-CR-01	1	196	6	79	.2	7	17	986	4.44	6	5	ND	1	67	1	2	2	111	6.17	.049	2	11	1.06	84	.09	8	1.77	.02	.45	1	5
89-CR-02	1	211	12	78	.3	27	29	990	7.84	113	5	ND	1	30	1	2	2	205	2.76	.112	5	22	1.55	7	.21	2	2.34	.03	.04	1	3
89-CR-04	1	117	2	55	.2	55	23	625	4.70	43	5	ND	1	38	1	3	2	82	1.82	.081	2	87	2.47	2	.13	5	2.49	.02	.03	1	3
89-CR-05	1	127	7	35	.1	16	48	433	7.97	4	5	ND	1	35	1	3	2	233	4.14	.106	7	14	2.24	6	.16	6	2.23	.03	.04	1	5
89-CR-06	11	62	9	9	.1	129	51	95	5.89	5	5	ND	1	25	1	2	2	42	.94	.085	2	219	.37	15	.16	2	.29	.04	.13	1	131
89-CR-07	3	12	2	8	.3	13	36	157	6.87	18	5	ND	1	5	1	2	2	45	.62	.008	2	9	.08	2	.01	2	.15	.01	.02	22	71
MA-89-03R	1	626	2	71	.3	12	32	690	7.45	59	5	ND	1	23	1	31	2	145	1.76	.067	2	16	1.37	9	.01	5	.76	.01	.05	1	29
MA-89-05R	2	82	7	5	.1	5	3	495	1.92	30	5	ND	1	67	1	2	2	28	7.39	.048	2	9	2.42	4	.01	2	.32	.01	.01	1	5
MA-89-06R	2	122	13	80	.1	30	17	834	6.44	114	5	ND	1	58	1	8	2	48	3.73	.098	3	8	1.77	14	.01	3	.58	.01	.04	1	2
MA-89-07R	1	56	5	20	.1	26	10	953	3.26	24	5	ND	1	116	1	3	2	50	9.54	.070	3	70	3.67	54	.01	2	.32	.01	.09	1	2
MA-89-08R	1	25	8	23	.1	115	16	539	4.09	195	5	ND	1	157	1	2	2	55	10.28	.013	2	191	4.01	14	.01	8	.23	.01	.01	1	2
MA-89-16R	1	1618	12	36	.4	3	11	333	7.27	2	5	ND	1	41	1	2	4	72	4.88	.209	7	10	1.06	23	.07	8	5.24	.01	.11	1	2
MA-89-20R	1	345	2	37	.1	8	11	629	2.98	14	5	ND	1	23	1	2	2	70	2.56	.046	2	14	.60	22	.01	3	1.30	.02	.06	1	3
MA-89-21R	1	10884	5	93	3.9	15	73	521	5.16	103	5	ND	1	5	1	2	4	67	.79	.021	2	12	.89	11	.01	6	1.66	.01	.06	1	310
MA-89-22R	1	24095	2	97	14.5	55	50	373	4.12	14	5	ND	1	24	4	2	2	28	4.54	.026	2	38	.42	1	.03	3	.48	.01	.01	1	4
STD C/AU-R	17	62	39	132	6.7	70	31	1045	4.21	42	21	8	36	47	19	15	20	58	.50	.095	38	56	.87	174	.07	38	2.03	.06	.14	12	490

- ASSAY REQUIRED FOR CORRECT RESULT -

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

[illegible]

Location Ref _____
Air Photo No _____

[illegible]

Sampler M.A.

Project BCSH

Location Ref _____

Date JULY 89

Property RUSH & LONATLOT

Air Photo No _____

[illegible]

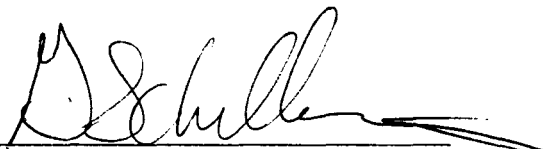
APPENDIX IV

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Gary Schellenberg, of Vancouver, British Columbia, DO HEREBY CERTIFY THAT:

1. I am a consulting geologist and president of Coast Mountain Geological Ltd. with business office address at Suite 820 - 650 West Georgia Street, Vancouver, British Columbia, V6B 4N9.
2. I am a 1981 graduate Geologist from the University of British Columbia with a Bachelor of Science degree.
3. I have practiced my profession continuously since graduation.
4. I have conducted various mineral exploration programs in B.C., Yukon, Washington and Nevada.
5. I have not visited the subject property.
6. I have authored this report from data supplied by M. Archambault, an employee of Coast Mountain Geological Ltd.
7. M. Archambault is a competent geologist with a Master's degree in Geology from the University of British Columbia, with over 6 years of field experience in B.C. and Quebec.
8. M. Archambault was on the subject property from July 22nd to July 24th, 1989.


Gary Schellenberg, B.Sc.
Geologist

Dated at Vancouver, B.C. this 25th day of October, 1989.