



To: W.M. Johnson

Date: October 29, 1979

Our File:

**896165**

Re: Chu Chua Samples

Three sets of drill core samples from the Chu Chua massive sulphide deposit (NTS 92P/8) have been submitted for analysis.

The first set of 7 are for X-ray analysis. The second set of 32 from section 10100N and 21 from 9950N are for silicate and selected trace elements analysis. The third set are massive sulphide samples (11 from 10100N and 8 from 9950N) for assay and selected trace element analysis. A list of sample numbers and capsule comments is appended.

The silicate analysis samples should be done for LOI and CO<sub>2</sub> - most have carbonate veinlets in them.

Several of the massive sulphides should be analysed semi-quantitatively by emission spec so I can intelligently choose trace elements of interest.

At least preliminary results would be appreciated in late December - I need them for the GAC Symposium in January. The study is being undertaken to see what effects alteration have had on the country rocks at Chu Chua and to understand better the metal distribution and abundances in the massive sulphide pods.

W.J. McMillan

WJM/dlb

Encl.

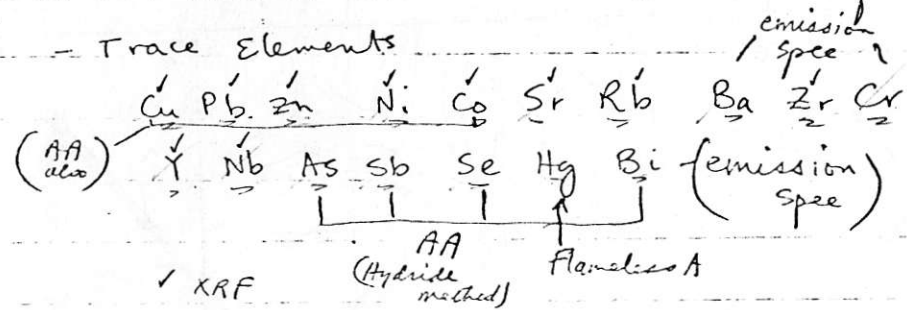
cc: N.C. Carter

CANADA

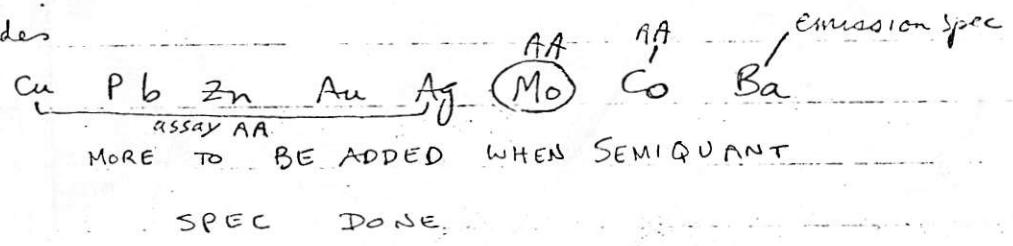
3.5% HClO4  
by volume

CHU CHUA

53 Rocks - Silicate Anal w. CO<sub>2</sub> SO<sub>3</sub> LOI requested  
(XRF) - Trace Elements

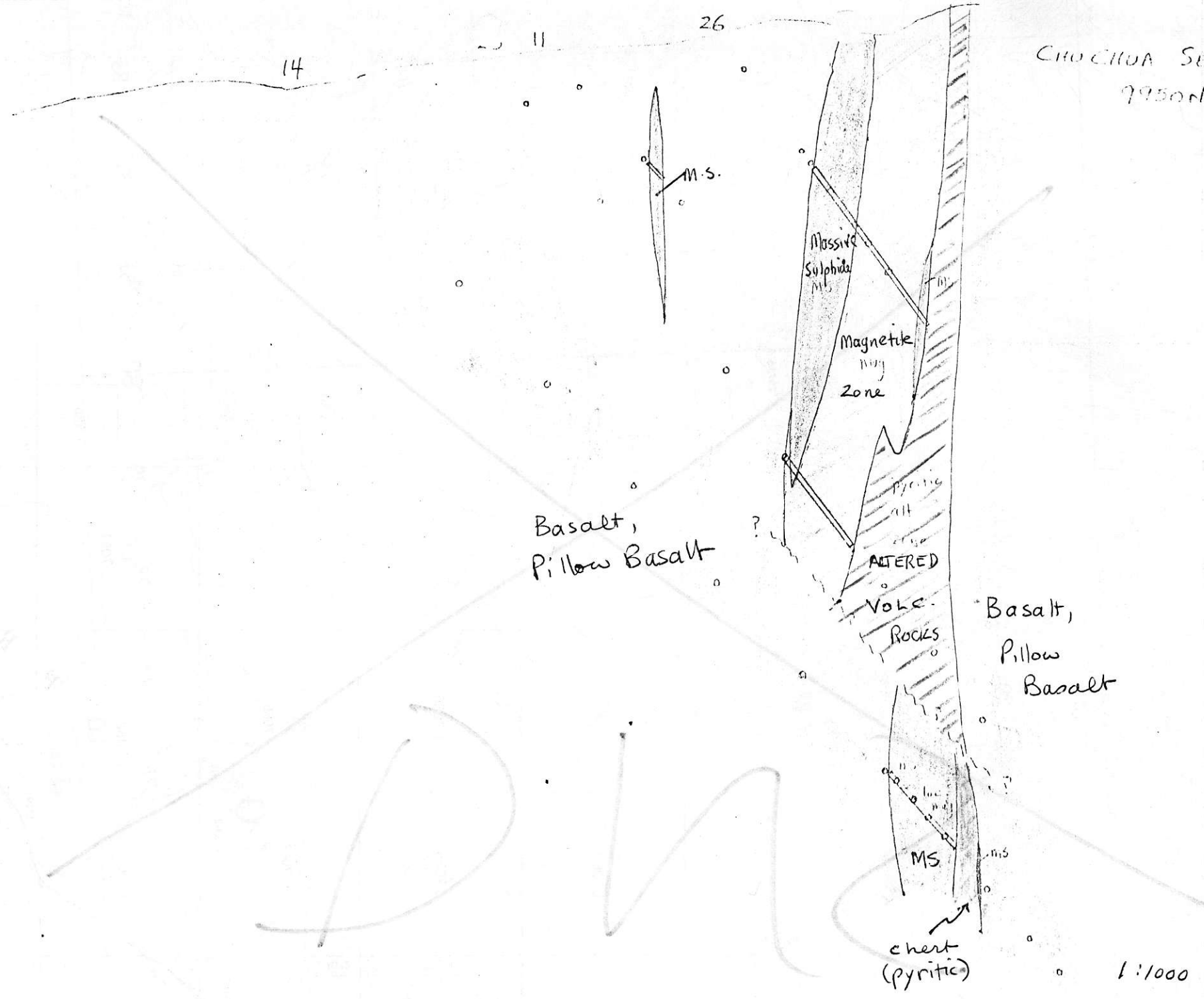


19 Massive Sulphides  
(AA)



CHOCOMA SECTION  
7950ft

CYMRD



Basalt,  
Pillow Basalt

Massive  
Sulphide  
MS

Magnetite  
Zone

Pyritic

ALTERED

VOLC.  
ROCKS

Basalt,  
Pillow  
Basalt

MS

chert  
(pyritic)

1:1000

CANADIAN  
Geological Survey

12

1

17

22

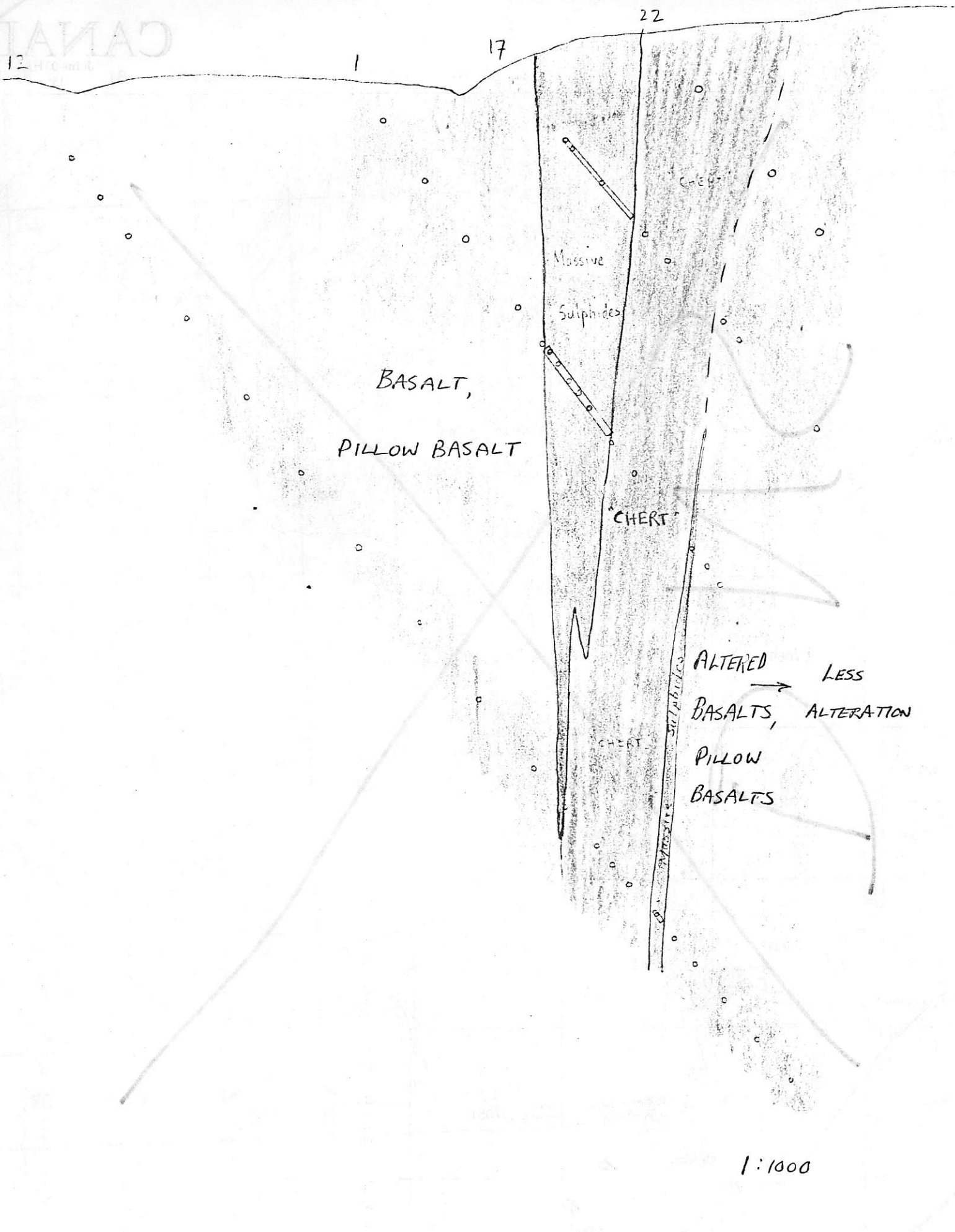
BASALT,  
PILLOW BASALT

Massive  
Sulphides

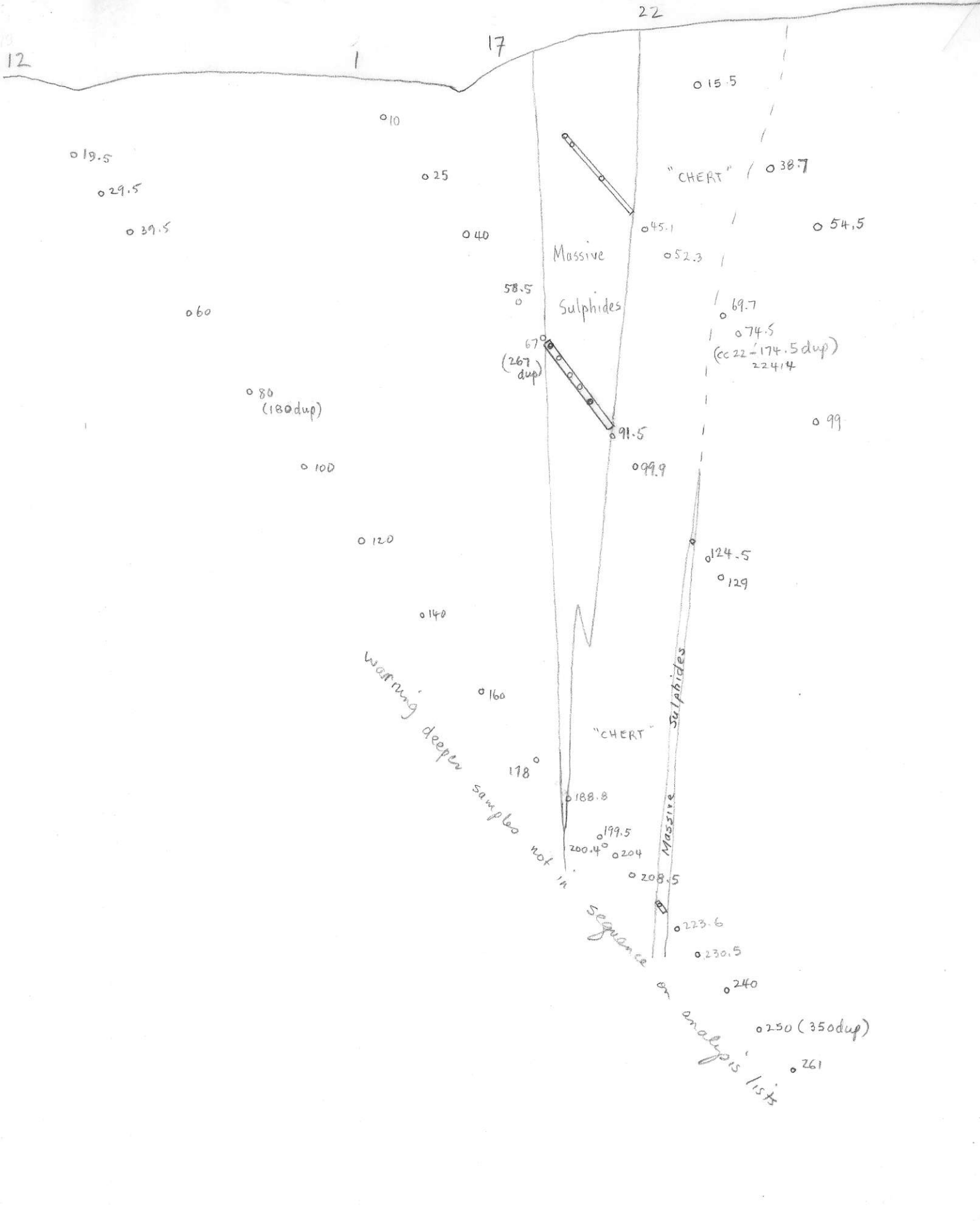
CHERT

ALTERED → LESS  
BASALTS, ALTERATION  
PILLOW  
BASALTS

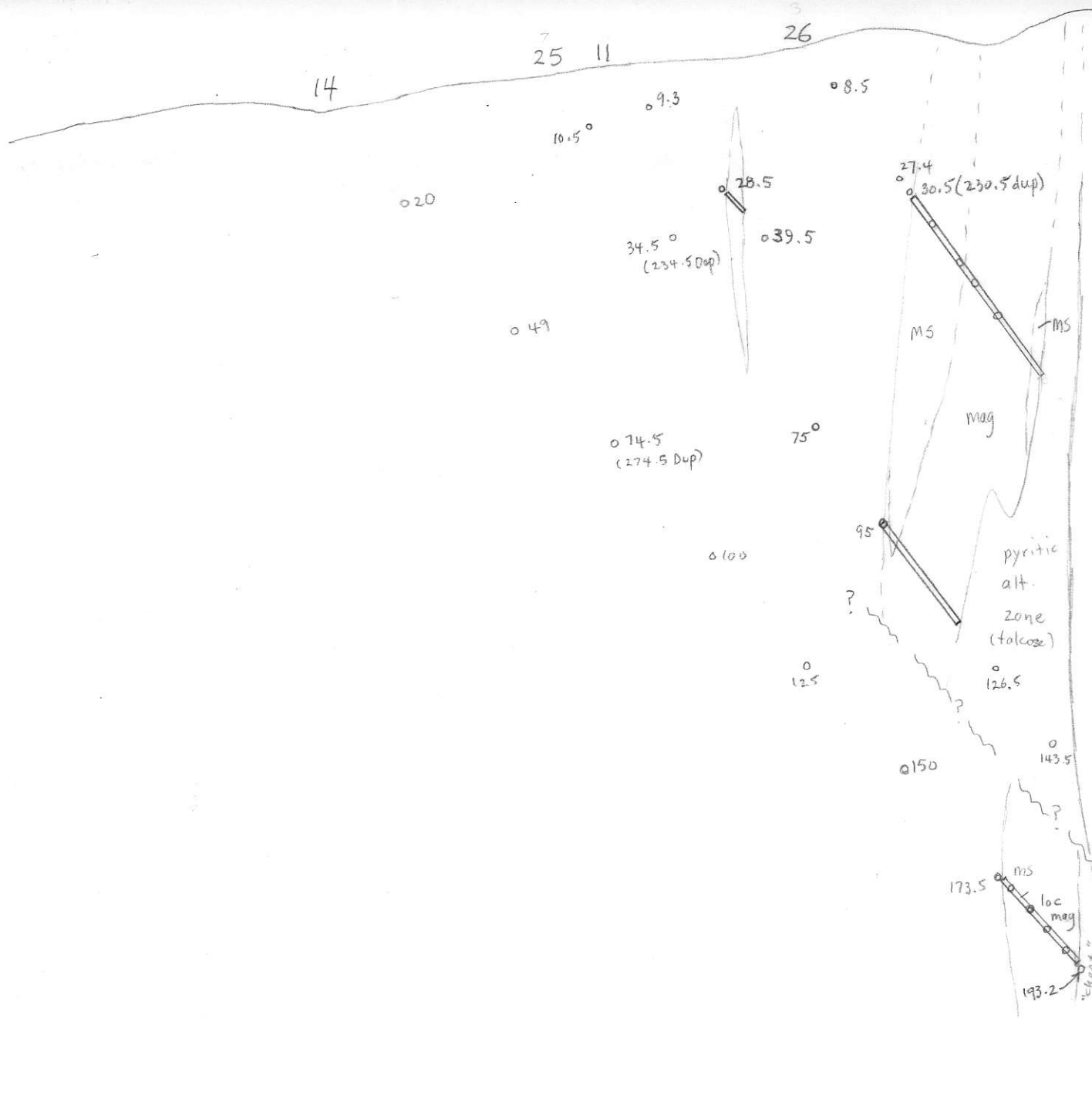
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GEOCHEM CHUCHUA 10100N



CHUCHUA SECTION  
9950N



1:1000

Massive Sulphide Samples

SECTION 9950N

DDH	Footage	Comments
CC14	176.5	Brecciated massive sulphides
	181.5	Massive sulphides
	185.5	Massive sulphides
	190.5	Massive sulphides
CC26	37.5	Massive sulphides
	45.5	Massive sulphides
	49.5	Magnetite-rich zone
	56.5	Magnetite-rich zone
CC11	29.5	Massive Sulphides

Massive Sulphide Samples

SECTION 10100N

DDH	Footage	Comments
CC1	68.7	Massive sulphides
	71.5	Massive sulphides
	75.5	Massive sulphides
	79.5	Massive sulphides
	83.5	Massive sulphides
	<del>119.5</del>	<del>Massive sulphides</del>
CC17	19.9	Massive sulphides
	22.5	Massive sulphides
	31.5	Massive sulphides
	83.5	Dup of CC1 83.5 ] <u>check</u>
	49.5	" " CC26 49.5 ] <u>check</u>
CC12	217.5	Massive sulphides

ROCKS

SECTION 10100N

DDH	Footage	Comments
CC1	10	"Spotted" basalt
	25	Feldspathic basalt
	40	Pillow basalt
	? <del>58.5</del> 50.5	Feldspathic basalt
	67	Pillow basalt adjacent to massive sulphide layer
	91.5	Altered basalt (small sample)
	99.9	<u>Pyritic</u> siliceous "chert"
	124.5	Talc(?) altered basalt
	129	Slightly altered basalt
	267	Dup 67
CC17	45.1	<u>Pyritic</u> "chert" (or is it silicified basalt?)
	52.3	Altered basalt
	69.7	Black altered and veined basalt
	74.5	Carbonate(?) altered basalt
	99.0	Chloritised feldspathic basalt
CC22	15.5	Chert breccia
	38.7	Carbonate altered basalt
	54.5	Bleached basalt
	174.5	Dup CC17: 74.5
CC12 22260M	19.5	Very finely crystalline pillow basalt
	29.5	Finely crystalline pillow basalt
	39.5	"Chilled" pillow basalt
	60	"Chilled" pillow basalt
	80	Finely crystalline pillow basalt
	100	Finely crystalline pillow basalt
	120	Very finely crystalline pillow basalt
	140	Microdioritic textured basalt (altered)
	160	Finely crystalline basalt
	178	Pillow basalt
22261M 223.6	180	Dup CC12: 180
22261M 223.6		"Chert"

22262M 230.5 Basalt

v high MgO

- 199.5 \_\_\_\_\_ } X may also - Talc alt basalt  
 - 200.4 \_\_\_\_\_ } carb? alt basalt  
 188.8 \_\_\_\_\_ }  
 204.0 \_\_\_\_\_ } Pyritic silic Rck  
 208.5 \_\_\_\_\_ } Silic. Rck  
 240.0 \_\_\_\_\_ } Basalt  
 250.0 \_\_\_\_\_ } Basalt  
 261.0 \_\_\_\_\_ } fg xllne basalt

223.6 "chert"

230.5 basalt



## X-RAY SAMPLES

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DDH	Footage	Comments
CC26	26.4	Vein composition?
CC1	90.1 (missing)	Minerals?
	94.5	Sphalerite? + Talc? + Dolomite?
	95	Dolomite? + Sphalerite? + Pyrrhotite?
CC12	199.5 (22425)	Talc? altered basalt
	200.4 (22426)	Carbonate or is it barite alteration?
	225	Carbonate(?) altered basalt

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Samples and Comments

SECTION 9950N

Rocks

DDH	Footage	Comments
CC14 2369M	20	Basalt
	49	Pillow basalt
	74.5	Very fine grained basalt
<i>consecutive numbers</i>	100	Pillow basalt
	125	Basalt
	150	Basalt
	173.5	Basalt adjacent to massive sulphides
	193.2	Siliceous, cherty rock
	202.8	Altered basalt
	215	Less altered basalt
	225	Slightly bleached feldspathic basalt
	274.5	<i>Duplicate of 74.5</i>
CC25	10.5	Pillow basalt
	34.5	Pillow basalt
	75	Pillow basalt east of massive sulphide
	95	Pillow basalt east of massive sulphide (tan colored)
<i>v. high MgO</i>	126.5	Pervasive <u>talc</u> (?) alteration of basalt
	143.5	Bleached basalt
	159.5	Bleached pillow basalt
	234.5	<i>Dup 34.5</i>
CC26	8.5	Pillow basalt
	27.4	Pillow basalt
	30.5	Pillow basalt
	230.5	<i>Dup 30.5</i>
CC11	9.3	Bleached basalt
	28.5	Altered basalt
	39.5	Altered brecciated basalt



DATE . May 21, 1980 .....

**Province of British Columbia**  
 Ministry of Energy, Mines and Petroleum Resources

SAMPLE RECEIVED FROM ..... **W. J. McMILLAN** .....ADDRESS ..... **Geological Division** .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT																
22369M to  22433M	CC14- 20 to  CC12-350.0	<p align="center">Enclosed are 650 results on 65 samples (excluding Ba).</p> <p align="center">Please note the following DUPLICATES:</p> <table border="0"> <thead> <tr> <th align="center" data-bbox="841 1006 992 1034">DUPLICATE</th> <th align="center" data-bbox="1243 1006 1284 1034">OF</th> </tr> </thead> <tbody> <tr> <td>22380M (CC14-274.5)</td> <td>22371M (CC14- 74.5)</td> </tr> <tr> <td>22388M (CC25-234.5)</td> <td>22382M (CC25- 34.5)</td> </tr> <tr> <td>22392M (CC26-230.5)</td> <td>22391M (CC26- 30.5)</td> </tr> <tr> <td>22405M (CC 1-267)</td> <td>22400M (CC 1- 67)</td> </tr> <tr> <td>22414M (CC22-174.5)</td> <td>22409M (CC17- 74.5)</td> </tr> <tr> <td>22424M (CC12-180)</td> <td>22418M (CC12- 80)</td> </tr> <tr> <td>22433M (CC12-350.0)</td> <td>22431M (CC12-250.0)</td> </tr> </tbody> </table>	DUPLICATE	OF	22380M (CC14-274.5)	22371M (CC14- 74.5)	22388M (CC25-234.5)	22382M (CC25- 34.5)	22392M (CC26-230.5)	22391M (CC26- 30.5)	22405M (CC 1-267)	22400M (CC 1- 67)	22414M (CC22-174.5)	22409M (CC17- 74.5)	22424M (CC12-180)	22418M (CC12- 80)	22433M (CC12-350.0)	22431M (CC12-250.0)
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22433M (CC12-350.0)	22431M (CC12-250.0)																	

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

## LEGEND

T - TRACE  
 M.C. - MAJOR CONSTITUENT  
 N.D. - NOT DETECTED  
 P - PRESENT

*W. M. Johnson*  
 .....  
 CHIEF ANALYST

SUMMARY OF RESULTS IN % CORRECTED FOR BLANK AND BIAS SET 74 ANALYST CHAUDHRY

Table with columns: SAMPLE NUMBER, REF NO, SI02, AL2O3, FE2O3, MGO, CAO, NA2O, <20, TI02, MNO, LOI, BaCO2, P2O5, S, FEO, FE2O3, TOTAL. Rows include sample numbers 22369 through 22402 and a relative standard deviation section.

RELATIVE STANDARD DEVIATION % INITIAL FLAME = 0.853 2.233 1.163 0.679 1.029 1.552 1.339 2.871 2.958

FINAL FLAME = 0.468 1.246 0.629 0.622 0.931 1.262 1.184 3.435 3.473

ABOUT LINE = 0.315 0.985 0.327 0.352 0.334 0.411 0.430 4.591 0.979

LIMIT DETECTION = 0.130 0.060 0.032 0.018 0.024 0.030 0.013 0.054 0.007

POLYNOMIAL ORDER DRIFT = 8 7 9 8 8 2 6 3 1

CALIBRATION table with columns: CALIBRATION, RELATIVE STANDARD DEVIATION ON, STANDARD, SY-2. Rows include: CALIBRATION = 4 3 4 5 5 3 3 2 2; RELATIVE STANDARD DEVIATION ON BETWEEN SAMPLES = <0.685 1.416 0.697 <0.832 <1.423 <0.881 <0.983 <1.423 <2.069; MEASUREMENT OBTAINED, EXPECTED, MEAN, ACCEPTED MEAN.

MORRIS... ANALYTICAL...

SUMMARY OF RESULTS IN % CORRECTED FOR BLANK AND BIAS														SET 175		ANALYST CHAUDHRY			
SAMPLE NO	REF	SI02	AL2O3	FE2O3	MGO	CAO	NA2O	K2O	TIO2	MNO	LOI	Ba	CO2	P2O5	S	FEO	FE2O3	TOTAL	
SAMPLE 22403	1	47.53	14.90	9.80	6.34	6.86	3.760	0.152	1.466	0.172	0.811	0.225	0.	0.	0.	0.	0.	90.97	99.30
SAMPLE 22404	2	46.10	15.37	9.40	6.35	7.73	2.407	1.014	1.482	0.151	0.828	0.22	0.	0.	0.	0.	0.	90.01	99.51
SAMPLE 22405	3	43.43	15.52	16.18	2.75	3.72	1.160	0.050	1.961	0.203	0.675	0.169	0.	0.	0.	0.	0.	91.99	99.91
SAMPLE 22406	4	74.51	7.41	6.71	0.29	0.21	0.042	0.942	0.338	0.009	0.475	0.169	0.	0.	0.	0.	0.	90.46	99.14
SAMPLE 22407	5	75.72	9.76	3.29	1.15	1.80	0.184	1.988	0.636	0.271	0.411	0.135	0.	0.	0.	0.	0.	94.80	100.24
SAMPLE 22408	6	46.04	13.11	10.10	6.73	8.81	0.080	1.477	1.578	0.161	0.1103	0.526	0.	0.	0.	0.	0.	88.09	99.70
SAMPLE BLANK	7	<0.09	<0.02	<0.02	<0.02	<0.02	<0.008	<0.012	<0.052	<0.007	-	-	0.	0.	0.	0.	0.	0.00	0.
SAMPLE 22409	8	48.19	15.53	10.33	6.67	8.73	3.510	0.356	1.653	0.178	0.438	0.165	0.	0.	0.	0.	0.	95.15	100.86
SAMPLE 22410	9	49.43	16.46	9.66	6.27	10.78	2.779	0.122	1.595	0.170	0.256	0.165	0.	0.	0.	0.	0.	97.27	99.83
SAMPLE SY-2	10	60.80	12.22	6.14	2.63	7.89	4.257	0.642	0.140	0.317	0.46	0.23	0.46	0.44	0.01	3.54	2.20	100.23	100.54
SAMPLE 22411	11	84.88	4.59	5.77	1.02	0.10	0.052	0.561	0.160	0.160	0.314	0.115	0.	0.	0.	0.	0.	97.28	100.54
SAMPLE 22412	12	49.71	15.21	10.65	5.27	6.45	4.920	0.021	1.829	0.158	0.494	0.224	0.	0.	0.	0.	0.	94.22	99.22
SAMPLE 22413	13	49.74	15.75	7.95	6.27	10.07	3.232	0.058	1.608	0.171	0.323	0.040	0.	0.	0.	0.	0.	96.84	100.11
SAMPLE 22414	14	47.48	15.89	10.38	6.74	8.71	3.453	0.349	1.625	0.177	0.432	0.511	0.	0.	0.	0.	0.	94.81	99.64
SAMPLE 22415	15	47.62	16.12	11.70	6.94	8.75	2.606	0.220	1.980	0.181	0.372	0.	0.	0.	0.	0.	0.	96.11	99.83
SAMPLE 22416	16	47.20	15.10	11.08	6.58	11.31	2.518	0.207	1.813	0.196	0.333	0.	0.	0.	0.	0.	0.	96.00	99.93
SAMPLE 22417	17	47.63	15.50	11.09	6.83	10.49	3.240	0.183	1.813	0.193	0.215	0.	0.	0.	0.	0.	0.	96.98	99.63
SAMPLE BLANK	18	<0.09	<0.02	<0.02	<0.02	<0.02	<0.007	<0.012	<0.052	<0.007	-	-	0.	0.	0.	0.	0.	-0.00	0.
SAMPLE 22418	19	48.24	15.28	11.25	6.77	10.88	2.639	0.196	1.904	0.180	0.283	0.	0.	0.	0.	0.	0.	97.35	100.18
SAMPLE 22419	20	47.89	15.42	11.32	6.84	10.44	2.459	0.134	1.834	0.186	0.271	0.	0.	0.	0.	0.	0.	96.52	99.23
SAMPLE 22420	21	47.14	16.12	11.07	7.03	11.42	2.860	0.034	1.787	0.189	0.270	0.	0.	0.	0.	0.	0.	97.65	99.95
SAMPLE SY-2	22	60.35	12.35	6.13	2.68	7.90	4.289	0.451	0.147	0.318	0.46	0.23	0.46	0.44	0.01	3.54	2.20	99.83	100.18
SAMPLE 22421	26	47.58	15.02	9.71	5.18	13.47	1.679	0.056	1.718	0.169	0.419	0.	0.	0.	0.	0.	0.	94.78	98.97
SAMPLE 22422	24	48.68	15.47	10.60	6.54	10.96	2.168	0.222	1.851	0.182	0.262	0.077	0.	0.	0.	0.	0.	96.68	99.28
SAMPLE 22423	25	47.14	15.06	11.11	7.06	10.30	3.172	0.108	1.847	0.188	0.282	0.107	0.	0.	0.	0.	0.	95.99	99.92
SAMPLE 22424	26	47.59	15.41	11.11	6.58	10.78	2.624	0.190	1.848	0.179	0.237	0.	0.	0.	0.	0.	0.	96.32	99.16
SAMPLE 22425	27	54.22	3.87	3.45	29.59	0.33	0.064	<0.012	0.490	0.021	0.673	0.346	0.	0.	0.	0.	0.	96.53	98.01
SAMPLE 22426	28	27.57	0.96	21.15	19.75	0.12	<0.007	<0.012	<0.052	0.039	0.238	0.119	0.	0.	0.	0.	0.	71.60	73.63
SAMPLE 22427	29	80.97	7.43	3.91	1.74	0.72	0.019	1.241	0.368	0.048	0.222	0.142	0.	0.	0.	0.	0.	96.44	99.14
SAMPLE 22428	30	68.14	12.17	6.37	2.95	0.14	0.043	3.054	0.644	0.065	0.428	0.	0.	0.	0.	0.	0.	93.57	99.42
SAMPLE 22429	31	85.25	5.97	2.01	1.19	0.60	0.019	1.299	0.196	0.195	0.265	0.	0.	0.	0.	0.	0.	96.72	99.37
SAMPLE 22430	32	46.74	15.45	10.41	6.78	9.44	2.594	1.040	1.637	0.191	0.219	0.104	0.	0.	0.	0.	0.	94.27	98.56
SAMPLE 22431	33	49.12	15.58	11.08	5.99	7.80	3.284	0.293	1.923	0.204	0.422	0.23	0.	0.	0.	0.	0.	95.38	99.69
SAMPLE SY-2	34	59.88	12.28	6.13	2.61	7.90	4.252	0.458	0.145	0.321	0.46	0.23	0.46	0.44	0.01	3.54	2.19	99.17	99.69
SAMPLE 22432	35	56.74	14.49	8.92	4.28	7.31	3.651	0.232	1.494	0.172	0.224	0.056	0.	0.	0.	0.	0.	97.29	99.61
SAMPLE 22433	36	49.03	15.78	11.04	5.94	7.88	3.253	0.293	1.902	0.305	0.	0.071	0.	0.	0.	0.	0.	95.42	99.61

RELATIVE STANDARD DEVIATION %

INITIAL FLAME =	1.029	0.702	0.783	0.974	0.779	1.110	1.447	2.949	2.906
FINAL FLAME =	0.467	0.601	0.505	0.862	0.851	0.833	0.774	4.021	3.091
ABOUT LINE =	0.220	1.666	0.350	0.818	0.601	0.587	0.315	***	0.398
LIMIT DETECTION =	0.093	0.022	0.020	0.017	0.024	0.007	0.012	0.052	0.007

POLYNOMIAL ORDER

DRIFT	=	8	6	7	10	8	6	7	9	6
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CALIBRATION

RELATIVE STANDARD DEVIATION ON STANDARD SY-2 BETWEEN SAMPLES =	0.745	<0.731	<0.648	<1.600	<0.697	<1.090	2.348	<5.921	<1.385
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MEASUREMENT

OBTAINED	=	0.153	0.359	0.318	0.786	0.343	0.536	0.459	2.910	0.533
EXPECTED	=	0.398	0.415	0.488	0.585	0.556	0.648	0.803	***	2.136
MEAN ON SY-2	=	60.35	12.28	6.13	2.64	7.89	4.266	0.517	0.144	0.319
ACCEPTED MEAN	=	59.76	12.08	6.26	2.68	7.96	4.33	4.49	0.15	0.32





DATE ... October 31, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

SAMPLE RECEIVED FROM ..... W. J. McMILLAN ..... Page 1A .....

ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT						
		<u>Sr</u>	<u>Th</u>	<u>U</u>	<u>W</u>	<u>Y</u>	<u>Zr</u>	
22369M	CC14- 20	233 ± 2	<2	<2	<8	37 ± 1	130 ± 2	
22370M	CC14- 49	164 ± 1	<2	1 ± 2	<8	37 ± 1	129 ± 2	
22371M <sup>1</sup>	CC14- 74.5	116 ± 1	<2	<2	<8	36 ± 1	118 ± 2	
22372M	CC14-100	78 ± 1	<2	2 ± 2	<8	35 ± 1	117 ± 2	
22373M	CC14-125	147 ± 1	<2	2 ± 2	<8	38 ± 1	128 ± 2	
22374M	CC14-150	152 ± 1	1 ± 2	2 ± 2	<8	35 ± 1	121 ± 2	
22375M	CC14-123.5	111 ± 2	<2	<2	<9	33 ± 1	106 ± 3	
22376M	CC14-193.2	28 ± 1	8 ± 2	5 ± 2	<8	13 ± 1	50 ± 2	
22377M	CC14-202.8	71 ± 1	<2	<2	<8	34 ± 1	112 ± 2	
22378M	CC14-215	67 ± 1	<2	2 ± 2	<14	32 ± 1	110 ± 2	
22379M	CC14-225	69 ± 1	1 ± 2	2 ± 2	<8	33 ± 1	112 ± 2	
22380M <sup>1D</sup>	CC14-74.5	115 ± 1	2 ± 2	<2	<8	36 ± 1	121 ± 2	
22381M	CC25- 10.5	154 ± 1	<2	3 ± 2	<8	36 ± 1	122 ± 2	
22382M <sup>2</sup>	CC25- 34.5	86 ± 1	1 ± 2	1 ± 2	<7	33 ± 1	109 ± 2	
22383M	CC25- 75	140 ± 1	<2	3 ± 2	<8	35 ± 1	117 ± 2	
22384M	CC25- 95	73 ± 1	<2	<2	<9	31 ± 1	103 ± 2	
22385M	CC25-126.5	2 ± 1	1 ± 2	<2	<7	8 ± 1	6 ± 2	
22386M	CC25-143.5	45 ± 1	<2	<2	<8	32 ± 1	105 ± 2	
22387M	CC25-159.5	82 ± 1	2 ± 2	2 ± 2	<9	31 ± 1	104 ± 2	
22388M <sup>2D</sup>	CC25-34.5	85 ± 1	<2	1 ± 2	<7	34 ± 1	109 ± 2	
22389M	CC26- 8.5	123 ± 1	4 ± 2	<2	<8	37 ± 1	125 ± 2	
22390M	CC26- 27.4	89 ± 1	<2	<2	<8	35 ± 1	119 ± 2	
22391M <sup>3</sup>	CC26- 30.5	53 ± 1	<2	<2	<9	35 ± 1	112 ± 2	
22392M <sup>3D</sup>	CC26-30.5	52 ± 1	<2	<2	<9	34 ± 1	111 ± 3	
22393M	CC11- 9.3	76 ± 1	<2	<2	<8	37 ± 1	123 ± 2	
22394M	CC11- 28.5	169 ± 2	<2	<2	<9	32 ± 1	103 ± 2	
22395M	CC11- 39.5	79 ± 1	<2	<2	<10	30 ± 1	99 ± 3	
22396M	CC 1- 10	122 ± 1	<2	<2	<8	37 ± 1	126 ± 2	
22397M	CC 1- 25	133 ± 1	<2	1 ± 2	11 ± 8	38 ± 1	127 ± 2	
22398M	CC 1- 40	176 ± 2	<2	<2	<8	37 ± 1	124 ± 2	
22399M	CC 1- 50.5	201 ± 2	<2	<2	<8	36 ± 1	121 ± 2	

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## LEGEND

T - TRACE  
M.C. - MAJOR CONSTITUENT  
N.D. - NOT DETECTED  
P - PRESENT

*W. M. Johnson*  
.....  
CHIEF ANALYST



DATE .. October 31, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

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ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT					
		in ppm					
		<u>Bi</u>	<u>Mo</u>	<u>Nb</u>	<u>Pb</u>	<u>Rb</u>	<u>Sn</u>
22369M	CC14- 20	<7	<1	7 ± 4	6 ± 3	<2	<4
22370M	CC14- 49	<7	<1	7 ± 4	4 ± 3	<2	<4
22371M <sup>1</sup>	CC14- 74.5	5 ± 7	<1	5 ± 3	6 ± 3	<2	<4
22372M	CC14-100	<7	<1	6 ± 3	7 ± 3	<2	<4
22373M	CC14-125	<7	<1	7 ± 3	7 ± 3	<2	<4
22374M	CC14-150	4 ± 7	<1	5 ± 3	5 ± 3	<2	<4
22375M	CC14-123.5	<8	7 ± 1	3 ± 2	2 ± 3	12 ± 2	<4
22376M	CC14-193.2	<7	6 ± 1	2 ± 4.5	18 ± 3	<2	32 ± 4
22377M	CC14-202.8	<7	<1	5 ± 3	3 ± 3	34 ± 2	<4
22378M	CC14-215	<7	<1	5 ± 3	5 ± 3	21 ± 2	<4
22379M	CC14-225	<7	<1	5 ± 3	6 ± 3	15 ± 2	<4
22380M <sup>1D</sup>	CC14- 74.5	<7	<1	6 ± 3	6 ± 3	<2	<4
22381M	CC25- 10.5	<7	<1	6 ± 4	7 ± 3	<2	1 ± 4
22382M <sup>2</sup>	CC25- 34.5	<7	<1	5 ± 3	2 ± 3	1 ± 2	<4
22383M	CC25- 75	<7	<1	4 ± 3	15 ± 3	<2	<4
22384M	CC25- 95	<8	<1	4 ± 2	3 ± 3	23 ± 2	<4
22385M	CC25-126.5	<6	2 ± 1	1 ± 1	4 ± 2	<2	<4
22386M	CC25-143.5	<8	<1	4 ± 2	2 ± 3	16 ± 2	<4
22387M	CC25-159.5	<7	<1	5 ± 3	5 ± 3	<2	<4
22388M <sup>2D</sup>	CC25- 34.5	<7	<1	6 ± 3	7 ± 3	2 ± 2	<4
22389M	CC26- 8.5	<7	<1	6 ± 3	6 ± 3	<2	<4
22390M	CC26- 27.4	<7	<1	4 ± 3	6 ± 3	1 ± 2	<4
22391M <sup>3</sup>	CC26- 30.5	<8	<1	4 ± 2	3 ± 3	22 ± 2	<4
22392M <sup>3D</sup>	CC26- 30.5	<8	<1	4 ± 2	3 ± 3	21 ± 2	<4
22393M	CC11- 9.3	<7	<1	6 ± 3	5 ± 3	7 ± 2	<4
22394M	CC11- 28.5	<8	<1	3 ± 2	4 ± 3	31 ± 2	<4
22395M	CC11- 39.5	<8	1 ± 1	2 ± 2	2 ± 3	16 ± 2	<4
22396M	CC 1- 10	<7	<1	6 ± 3	3 ± 3	6 ± 2	<4
22397M	CC 1- 25	<7	<1	5 ± 3	5 ± 3	<2	<4
22398M	CC 1- 40	<7	<1	5 ± 3	4 ± 3	3 ± 2	<4
22399M	CC 1- 50.5	<7	<1	5 ± 3	2 ± 3	<2	<4

<sup>D</sup>Duplicate of corresponding number.

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LEGEND

- T - TRACE
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DATE .. May 21, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

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ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT								
		% <u>P<sub>2</sub>O<sub>5</sub></u>	% <u>SrO</u>	ppb <u>Hg</u>	ppm <u>As</u>	ppb <u>Sb</u>	ppm <u>Ba</u>	ppm <u>Co</u>	ppm <u>Ni</u>	ppm <u>Li</u>
22369M	CC14- 20	0.15	218	28	2	1268	<50	42	62	9.9
22370M	CC14- 49	<0.07	182	<10	3	462	<50	42	73	10.1
22371M <sup>1</sup>	CC14- 74.5	0.33	148	<10	10	348	<50	37	78	8.7
22372M	CC14-100	0.41	106	28	4	270	96	38	78	9.0
22373M	CC14-125	<0.07	148	19	6	234	761	44	60	11.0
22374M	CC14-150	0.29	182	62	2	164	491	37	72	9.3
22375M	CC14-123.5	0.15	136	140	22	226	60353	43	76	8.4
22376M	CC14-193.2	<0.07	30	214	18	236	1963	47	<2	8.7
22377M	CC14-202.8	0.15	110	47	39	82	25029	38	61	29.3
22378M	CC14-215	0.15	103	46	23	118	2128	39	72	24.9
22379M	CC14-225	<0.07	103	19	27	132	1069	43	73	23.0
22380M <sup>1D</sup>	CC14-274.5	0.33	156	<10	9	330	50	39	58	7.1
22381M	CC25- 10.5	<0.07	182	27	2	232	75	41	56	8.9
22382M <sup>2</sup>	CC25- 34.5	0.15	136	69	7	120	274	36	78	16.1
22383M	CC25- 75	0.09	163	32	20	304	664	40	64	6.8
22384M	CC25- 95	<0.07	110	<10	<2	258	44538	37	70	10.2
22385M	CC25-126.5	<0.07	<5	187	2	200	<50	32	93	1.0
22386M	CC25-143.5	0.18	75	38	36	190	40605	39	65	23.2
22387M	CC25-159.5	<0.07	142	65	3	132	402	34	48	12.1
22388M <sup>2D</sup>	CC25-234.5	0.13	148	89	8	144	238	36	78	16.6
22389M	CC26- 8.5	0.07	182	36	2	120	693	40	86	14.4
22390M	CC26- 27.4	0.30	136	22	14	324	5620	38	79	15.0
22391M <sup>3</sup>	CC26- 30.5	0.20	95	15	28	282	44704	45	82	11.3
22392M <sup>3D</sup>	CC26-230.5	0.24	95	17	33	252	44483	42	89	12.3
22393M	CC11- 9.3	<0.07	125	19	49	158	2970	49	70	21.3
22394M	CC11- 28.5	0.29	219	39	23	240	44282	39	75	10.3
22395M	CC11- 39.5	0.25	120	24	43	398	77190	41	61	7.4
22396M	CC 1- 10	0.35	172	56	2	374	6226	40	80	9.7
22397M	CC 1- 25	0.33	182	29	31	360	1560	53	75	12.5
22398M	CC 1- 40	0.12	250	50	11	238	8682	40	82	11.4
22399M	CC 1- 50.5	0.35	273	10	18	208	3006	39	64	13.3
22400M <sup>4</sup>	CC 1- 67	0.33	112	22	9	170	1779	40	78	21.6
22401M	CC 1- 91.5	0.29	35	29	9	234	62609	5	17	11.9
22402M	CC 1- 99.9	0.32	5	48	7	342	192	7	32	16.4

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## LEGEND

T - TRACE  
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CHIEF ANALYST



DATE May 21, 1980

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

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ADDRESS Geological Division

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT								
		% <u>P<sub>2</sub>O<sub>5</sub></u>	% <u>SrO</u>	ppb <u>Hg</u>	ppm <u>As</u>	ppb <u>Sb</u>	ppm <u>Ba</u>	ppm <u>Co</u>	ppm <u>Ni</u>	ppm <u>Li</u>
22403M	CC 1-124.5	0.29	182	17	21	686	2253	40	56	18.6
22404M	CC 1-129	0.37	163	6	13	302	6224	37	44	33.7
22405M <sup>4D</sup>	CC 1-267	0.33	120	27	10	234	1689	37	84	21.2
22406M	CC17- 45.1	<0.07	14	69	17	774	39501	15	13	4.5
22407M	CC17- 52.3	0.29	53	30	45	410	13509	19	3	8.3
22408M	CC17- 69.7	0.11	136	<10	29	362	5764	37	70	27.9
22409M <sup>5</sup>	CC17- 74.5	0.32	173	15	6	470	5247	41	62	17.2
22410M	CC17- 99.0	0.35	233	10	2	276	652	37	73	15.2
22411M	CC22- 15.5	<0.07	5	82	7	960	1153	37	16	8.8
22412M	CC22- 38.7	0.16	110	20	6	298	241	39	34	12.0
22413M	CC22- 54.5	0.11	163	28	6	284	401	39	44	11.2
22414M <sup>5D</sup>	CC22-174.5	0.32	165	20	11	502	5113	39	47	16.7
22415M	CC12- 29.5	0.19	182	51	<2	168	<50	38	87	10.6
22416M	CC12- 39.5	0.18	172	51	5	72	<50	42	67	5.9
22417M	CC12- 60	<0.07	172	36	<2	176	<50	44	79	4.4
22418M <sup>6</sup>	CC12- 80	0.25	203	45	9	276	<50	41	73	6.6
22419M	CC12-100	0.18	192	8	<2	158	<50	45	88	6.0
22420M	CC12-120	0.11	250	20	<2	100	<50	43	74	3.4
22421M	CC12-140	<0.07	182	12	<2	318	82	39	82	5.9
22422M	CC12-160	0.18	203	27	16	74	772	46	80	13.4
22423M	CC12-178	0.08	182	34	5	266	1069	42	92	13.4
22424M <sup>6D</sup>	CC12-180	0.25	192	36	8	232	<50	42	99	6.9
22425M	CC12-199.5	<0.07	25	65	2	280	2459	27	144	15.1
22426M	CC12-200.4	<0.07	18	49	<2	246	4188	34	31	<1.0
22427M	CC12-188.8	0.08	65	48	2	126	4820	11	44	14.3
22428M	CC12-204.0	0.07	25	21	13	782		12	46	13.1
22429M	CC12-208.5	<0.07	31	27	32	296		28	23	5.3
22430M	CC12-240.0	0.08	218	27	23	336	10366	38	50	13.3
22431M <sup>7</sup>	CC12-250.0	0.08	182	18	23	350	873	42	46	9.2
22432M	CC12-261.0	0.08	218	18	9	222	564	26	31	9.2
22433M <sup>7D</sup>	CC12-350.0	0.08	192	15	25	356	914	44	44	9.3
				±15	±2	±30	±70	±4	±5	±1.5

<sup>D</sup>Duplicate of corresponding number.

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## LEGEND

T - TRACE  
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P - PRESENT

NOTE: Other Trace Elements to follow.

*W. M. Johnson*  
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CHIEF ANALYST



**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

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ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT					
		<u>Sr</u>	<u>Th</u>	<u>U</u>	<u>W</u>	<u>Y</u>	<u>Zr</u>
22400M <sup>4</sup>	CC 1- 67	81 ± 1	1 ± 2	1 ± 2	<8	34 ± 1	129 ± 2
22401M	CC 1- 91.5	24 ± 1	<2	<2	<8	21 ± 1	113 ± 3
22402M	CC 1- 99.9	3 ± 0.5	5 ± 2	2 ± 2	8 ± 6	6 ± 1	32 ± 2
22403M	CC 1-124.5	123 ± 1	<2	2 ± 2	<7	28 ± 1	100 ± 2
22404M	CC 1-129	114 ± 1	<2	2 ± 2	<7	31 ± 1	102 ± 2
22405M <sup>4D</sup>	CC 1- 67	82 ± 1	<2	2 ± 2	<8	36 ± 1	130 ± 2
22406M	CC17- 45.1	8 ± 1	<2	<2	<8	16 ± 1	88 ± 2
22407M	CC17- 52.3	26 ± 1	8 ± 2	2 ± 2	<7	30 ± 1	217 ± 3
22408M	CC17- 69.7	96 ± 1	<2	1 ± 2	<8	30 ± 1	105 ± 2
22409M <sup>5</sup>	CC17- 74.5	110 ± 1	<2	2 ± 2	<16	33 ± 1	112 ± 2
22410M	CC17- 99.0	196 ± 2	<2	<2	<8	33 ± 1	114 ± 2
22411M	CC22- 15.5	4 ± 1	4 ± 2	2 ± 1	<6	7 ± 1	37 ± 2
22412M	CC22- 38.7	72 ± 1	1 ± 2	2 ± 2	<8	37 ± 1	140 ± 2
22413M	CC22- 54.5	105 ± 1	4 ± 2	3 ± 2	<11	32 ± 1	111 ± 2
22414M <sup>5D</sup>	CC22- 74.5	111 ± 1	<2	2 ± 2	<13	33 ± 1	110 ± 2
22415M	CC12- 29.5	169 ± 2	<2	<2	<8	37 ± 1	124 ± 2
22416M	CC12- 39.5	114 ± 1	<2	3 ± 2	<8	34 ± 1	117 ± 2
22417M	CC12- 60	102 ± 1	<2	1 ± 2	<8	35 ± 1	117 ± 2
22418M <sup>6</sup>	CC12- 80	143 ± 1	1 ± 2	1 ± 2	<8	35 ± 1	120 ± 2
22419M	CC12-100	145 ± 1	4 ± 2	1 ± 2	<8	36 ± 1	118 ± 2
22420M	CC12-120	229 ± 2	<2	<2	9 ± 8	36 ± 1	118 ± 2
22421M	CC12-140	134 ± 1	1 ± 2	2 ± 2	<8	32 ± 1	109 ± 2
22422M	CC12-160	168 ± 2	3 ± 2	3 ± 2	<8	38 ± 1	122 ± 2
22423M	CC12-178	130 ± 1	<2	<2	17 ± 8	36 ± 1	119 ± 2
22424M <sup>6D</sup>	CC12- 180	143 ± 1	2 ± 2	1 ± 2	<8	36 ± 1	123 ± 2
22425M	CC12-199.5	36 ± 1	3 ± 2	1 ± 2	<9	22 ± 1	41 ± 2
22426M	CC12-200.4	24 ± 1	4 ± 2	2 ± 2	<8	3 ± 1	4 ± 2
22427M	CC12-188.8	28 ± 1	4 ± 2	2 ± 1	<6	30 ± 1	100 ± 2
22428M	CC12-204.0	12 ± 1	9 ± 2	3 ± 2	<7	22 ± 1	169 ± 2
22429M	CC12-208.5	17 ± 1	7 ± 2	1 ± 1	<10	12 ± 1	55 ± 2
22430M	CC12-240.0	191 ± 1	<2	<2	<8	32 ± 1	106 ± 2
22431M <sup>7</sup>	CC12-250.0	142 ± 1	<2	2 ± 2	<8	37 ± 1	139 ± 2
22432M	CC12-261.0	185 ± 2	2 ± 2	<2	<7	31 ± 1	117 ± 2
22433M <sup>7D</sup>	CC12- <del>250</del> 250.0	142 ± 1	1 ± 2	3 ± 2	<9	38 ± 1	140 ± 2

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LEGEND

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*W. M. Johnson*  
 CHIEF ANALYST



Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources

SAMPLE RECEIVED FROM ..... W. J. McMILLAN ..... Page 2

ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT						
		<u>Bi</u>	<u>Mo</u>	<u>Nb</u>	<u>Pb</u>	<u>Rb</u>	<u>Sn</u>	
22400M <sup>4</sup>	CC 1- 67	<7	<1	7 ± 4	7 ± 3	<2	5 ± 4	
22401M	CC 1- 91.5	<7	<1	3 ± 2	2 ± 3	<2	<4	
22402M	CC 1- 99.9	<6	<1	<1	8 ± 2	<2	<4	
22403M	CC 1-124.5	<7	<1	5 ± 3	7 ± 3	1 ± 2	<4	
22404M	CC 1-129	4 ± 7	<1	4 ± 3	6 ± 3	18 ± 2	<4	
22405M <sup>4D</sup>	CC 1- <del>129</del> 67	3 ± 7	<1	8 ± 5	6 ± 3	<2	<4	
22406M	CC17- 45.1	<7	<1	<1	8 ± 3	19 ± 2	<4	
22407M	CC17- 52.3	<6	1 ± 1	9 ± 1	11 ± 3	57 ± 2	<4	
22408M	CC17- 69.7	<7	<1	5 ± 3	5 ± 3	38 ± 2	<4	
22409M <sup>5</sup>	CC17- 74.5	<7	<1	6 ± 3	5 ± 3	2 ± 2	<4	
22410M	CC17- 99.0	1 ± 7	<1	5 ± 3	5 ± 3	<2	<4	
22411M	CC22- 15.5	<6	76 ± 1	<1	14 ± 2	6 ± 2	3 ± 4	
22412M	CC22- 38.7	<7	<1	6 ± 3	6 ± 3	<2	<4	
22413M	CC22- 54.5	<7	<1	6 ± 3	7 ± 3	<2	<4	
22414M <sup>5D</sup>	cc7 CC22- <del>174.5</del> 74.5	<7	<1	6 ± 3	4 ± 3	2 ± 2	<4	
22415M	CC12- 29.5	<7	<1	4 ± 4	2 ± 2	3 ± 2	<4	
22416M	CC12- 39.5	<7	<1	4 ± 3	13 ± 3	2 ± 2	<4	
22417M	CC12- 60	<7	<1	5 ± 3	4 ± 3	4 ± 2	<4	
22418M <sup>6</sup>	CC12- 80	<7	<1	4 ± 3	5 ± 3	3 ± 2	<4	
22419M	CC12-100	<7	<1	6 ± 3	7 ± 3	1 ± 2	<4	
22420M	CC12-120	<7	<1	4 ± 3	4 ± 3	<2	<4	
22421M	CC12-140	<7	<1	5 ± 3	<3	3 ± 2	<4	
22422M	CC12-160	<7	<1	6 ± 3	3 ± 3	1 ± 2	<4	
22423M	CC12-178	1 ± 7	<1	3 ± 3	5 ± 3	<2	<4	
22424M <sup>6D</sup>	CC12- <del>180</del> 80	2 ± 7	<1	5 ± 4	3 ± 3	2 ± 2	<4	
22425M	CC12-199.5	<5	2 ± 1	2 ± 1	13 ± 2	<2	2 ± 4	
22426M	CC12-200.4	3 ± 7	<1	5 ± 6	8 ± 3	1 ± 2	<4	
22427M	CC12-188.8	<6	<1	2 ± 1	4 ± 2	36 ± 2	1 ± 4	
22428M	CC12-204.0	<6	<1	6 ± 1	9 ± 2	90 ± 2	<4	
22429M	CC12-208.5	2 ± 5	<1	1 ± 1	138 ± 3	34 ± 2	<4	
22430M	CC12-240.0	1 ± 7	<1	5 ± 3	7 ± 3	10 ± 2	<4	
22431M <sup>7</sup>	CC12-250.0	<7	<1	5 ± 3	6 ± 3	<2	<4	
22432M	CC12-261.0	<6	<1	4 ± 2	4 ± 3	4 ± 2	<4	
22433M <sup>7D</sup>	CC12- <del>250.0</del> 250.0	<7	<1	6 ± 3	6 ± 3	2 ± 2	<4	

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LEGEND

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*W. M. Johnson*  
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DATE .. May 21, 1980 .....

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LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT																
22369M to  22433M	CC14- 20 to  CC12-350.0	<p>Enclosed are 650 results on 65 samples (excluding Ba).</p> <p>Please note the following DUPLICATES:</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">DUPLICATE</th> <th style="text-align: center;">OF</th> </tr> </thead> <tbody> <tr> <td>22380M (CC14-274.5)</td> <td>22371M (CC14- 74.5)</td> </tr> <tr> <td>22388M (CC25-234.5)</td> <td>22382M (CC25- 34.5)</td> </tr> <tr> <td>22392M (CC26-230.5)</td> <td>22391M (CC26- 30.5)</td> </tr> <tr> <td>22405M (CC 1-267)</td> <td>22400M (CC 1- 67)</td> </tr> <tr> <td>22414M (CC22-174.5)</td> <td>22409M (CC17- 74.5)</td> </tr> <tr> <td>22424M (CC12-180)</td> <td>22418M (CC12- 80)</td> </tr> <tr> <td>22433M (CC12-350.0)</td> <td>22431M (CC12-250.0)</td> </tr> </tbody> </table>	DUPLICATE	OF	22380M (CC14-274.5)	22371M (CC14- 74.5)	22388M (CC25-234.5)	22382M (CC25- 34.5)	22392M (CC26-230.5)	22391M (CC26- 30.5)	22405M (CC 1-267)	22400M (CC 1- 67)	22414M (CC22-174.5)	22409M (CC17- 74.5)	22424M (CC12-180)	22418M (CC12- 80)	22433M (CC12-350.0)	22431M (CC12-250.0)
DUPLICATE	OF																	
22380M (CC14-274.5)	22371M (CC14- 74.5)																	
22388M (CC25-234.5)	22382M (CC25- 34.5)																	
22392M (CC26-230.5)	22391M (CC26- 30.5)																	
22405M (CC 1-267)	22400M (CC 1- 67)																	
22414M (CC22-174.5)	22409M (CC17- 74.5)																	
22424M (CC12-180)	22418M (CC12- 80)																	
22433M (CC12-350.0)	22431M (CC12-250.0)																	

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N.D. - NOT DETECTED  
P - PRESENT

*W. J. McMILLAN*  
.....  
CHIEF ANALYST



THE GOVERNMENT OF  
THE PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
VICTORIA

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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT			
		in %			
		<u>SrO</u>	<u>BaO</u>	<u>-H<sub>2</sub>O</u>	<u>+H<sub>2</sub>O</u>
22260M	CC 12- 19.5	0.016	0.005	0.15	3.61
22261M	CC 12-223.6	0.0075	0.18	0.02	0.92
22262M	CC 12-230.5	0.017	0.04	0.13	3.21

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DATE..... March 31, 1980

*W. J. McMillan*  
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check CC17-19.9 for silver mineral

DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
VICTORIA

SAMPLE RECEIVED FROM W. J. McMILLAN

ADDRESS Geological Division

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT					
		ppm	ppm	%	ppm	%	ppm
		<u>Au</u>	<u>Ag</u>	<u>Ba</u>	<u>Co</u>	<u>Cu</u>	<u>Pb</u>
22344M	CC 1- 68.7	0.79	0.6	0.16	142	2.51	161
22345M	CC 1- 71.5	0.44	0.4	10.82	214	1.82	31
22346M	CC 1- 75.5	0.32	0.6	0.31	282	0.45	178
22347M	CC 1- 79.5	0.21	0.4	1.85	243	0.61	72
22348M <sup>1</sup>	CC 1- 83.5	0.26	0.4	1.69	200	0.44	30
22349M	CC 11- 29.5	0.43	0.2	0.28	869	1.06	36
22350M	CC 12- 217.5	1.13	0.7	0.09	306	2.06	191
22351M	CC 14- 176.5	0.29	0.5	0.09	276	1.36	219
22352M	CC 14- 181.5	0.29	0.2	7.29	153	1.04	29
22353M	CC 14- 185.5	0.77	0.4	5.10	310	0.92	43
22354M	CC 14- 190.5	0.20	0.3	6.75	32	0.18	132
22355M	CC 26- 37.5	0.21	0.4	0.08	1030	0.83	25
22356M	CC 26- 45.5	0.11	0.3	0.04	931	0.24	17
22357M <sup>2</sup>	CC 26- 49.5 mg	0.02	0.1	0.02	108	0.04	<5
22358M	CC 26- 56.5 mg	<0.01	0.2	0.05	101	0.007	<5
22359M	CC 17- 19.9	0.74	21.2	0.61	816	7.24	104
22360M	CC 17- 22.5	0.35	0.4	0.08	91	0.66	49
22361M	CC 17- 31.5	0.54	0.4	0.16	20	1.24	231
22362M <sup>1D</sup>	CC 17- 83.5	0.22	0.3	1.70	209	0.44	26
22363M <sup>2D</sup>	CC 17- 49.5 CC 26- 49.5	0.01	0.2	0.02	116	0.04	<5

*N=20*

*322.5 ± 315*

*0.36 ± 0.29*

*37 ± 16 (21.2 ignored)*

*≈ 0.4 gm/tonne*

*1.41 ± 4.66 (21.2 included)*

*Gold ~ \$900 @ \$800/oz*

*appx \$250 silver @ 450/oz*

*~ 34 gm/oz*

*Duplicate of corresponding number.*

*0.4/34 x 800 = 9.41*

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DATE December 17, 1979

*W J Johnson*  
CHIEF ANALYST AND ASSAYER.



ENERGY  
DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
22609M	GW 2-79	<p><u>XRD Report</u></p> <p>Minerals identified include plagioclase, pyroxene (augite?), chlorite, epidote and a very minor amount of quartz and amphibole (magnesian riebeckite??). Due to interference problems, the opaques have not been positively identified by XRD. However, the weak magnetism, inferior hardness and colour suggest that most of the disseminated opaque minerals are pyrrhotite. Some pyrite could be present too.</p>
22610M	GW 3-79	<p>The black veins (1) and the bulk rock (2) share similar mineralogy. Both are dominated by quartz, chlorite, sericite and calcite. The solid opaque minerals are mostly pyrite whereas those diffuse and brownish-looking ones (under reflected light) seem amorphous.</p>
22611M	GW 4-79	<p>Chlorite, quartz, plagioclase (albite?), ankerite, calcite and sericite have been identified. The opaque minerals are most likely pyrite though a bit of pyrrhotite could be present too. Neither of the two have been positively identified by XRD.</p>
22612M	GW 5-79	<p>Minerals identified are as follows: Plagioclase (albite-oligoclase?), chlorite, pyroxene (augite?), epidote, calcite, quartz, a little bit of amphibole and a trace amount of sericite.</p>

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DATE..... January 22, 1980

*W. M. Johnson*

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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
22613M	GW 6-79	Quartz, chlorite, armenite ( $\text{BaCa}_2\text{Al}_6\text{Si}_9\text{O}_{30} \cdot 2\text{H}_2\text{O}$ , for whose optical properties, please refer to Winchell, <i>Elements of Optical Mineralogy</i> ), sericite and calcite have been confirmed to be present. Feldspars are apparently absent.
22614M	GW 7-79	The sheaf-like bundles of crystals with high birefringence are stilpnomelane, possibly mixed with a little bit of talc. Associated carbonates include magnesite and ankerite/dolomite.
22615M	GW 8-79	Plagioclase, chlorite, quartz, pyroxene, epidote, calcite and a little bit of amphibole have been detected. Most of the opaques are likely to be pyrite.
22616M	GW 9-79	Quartz, pyrite and chlorite are the only crystalline phases detected.

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*W. J. McMILLAN*

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*Code using H.V. Scheme*



DATE .. October. 31., 1980. ....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

SAMPLE RECEIVED FROM ..... W. J. McMILLAN ..... Chu Chua .....

ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT			
		<i>Massive Sulphides</i>			
		in ppm			
		<u>Sn</u>	<u>W</u>	<u>Sr</u>	<u>Bi</u>
22344M	CC 1- 68.7	409 ± 8	10 ± 12	19 ± 1	<12
22345M	CC 1- 71.5	170 ± 6	19 ± 13	276 ± 9	<13
22346M	CC 1- 75.5	48 ± 6	16 ± 12	52 ± 2	7 ± 12
22347M	CC 1- 79.5	75 ± 6	<12	25 ± 1	<12
22348M <sup>1</sup>	CC 1- 83.5	80 ± 6	15 ± 13	37 ± 1	<13
22349M	CC11- 29.5	5 ± 6	3 ± 10	79 ± 2	<10
22350M	CC12- 217.5	13 ± 6	17 ± 11	39 ± 1	17 ± 12
22351M	CC14- 176.5	13 ± 5	21 ± 10	228 ± 4	2 ± 10
22352M	CC14- 181.5	115 ± 6	27 ± 13	164 ± 4	<13
22353M	CC14- 185.5	79 ± 6	29 ± 12	216 ± 5	<12
22354M	CC14- 190.5	16 ± 6	18 ± 14	416 ± 14	<15
22355M	CC26- 37.5	18 ± 5	28 ± 7	10 ± 1	<8
22356M	CC26- 45.5	<6	14 ± 10	6 ± 1	<10
<i>magnetic codes</i> → 22357M <sup>2</sup>	CC26- 49.5	4 ± 6	<13	1 ± 1	<13
22358M	CC26- 56.5	3 ± 6	12 ± 14	4 ± 1	<14
22359M	CC17- 19.9	23 ± 6	8 ± 11	6 ± 1	<11
22360M	CC17- 22.5	8 ± 6	17 ± 12	4 ± 1	<12
22361M	CC17- 31.5	40 ± 6	26 ± 12	6 ± 1	4 ± 12
22362M <sup>1D</sup>	CC17- 83.5	81 ± 6	17 ± 13	37 ± 1	1 ± 12
22363M <sup>2D</sup>	CC26- 49.5	4 ± 6	<13	3 ± 1	<13

<sup>D</sup>Duplicate of corresponding number.

*method of analysis :*

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DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
VICTORIA

*Don Conner*  
*Min. of Supplies*  
1  
CC1-68.7 Hg mineral  
CC1-83.5 " "  
Page 1A  
CC14-176.5 " "  
" " 181.5 " "  
" " 185.5 " "  
" " 190.5 " "

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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT					
		ppm <u>Mo</u>	% <u>Zn</u>	ppm <u>Ni</u>	ppm <u>As</u>	ppm <u>Cr</u>	ppb <u>Hg</u>
22344M	CC 1- 68.7	50	-2.52	13	87	21	13968
22345M	CC 1- 71.5	-1944	0.039	19	143	16	879
22346M	CC 1- 75.5	255	0.382	30	201	18	3628
22347M	CC 1- 79.5	61	0.019	15	176	19	683
22348M <sup>1</sup>	CC 1- 83.5	38	0.037	18	89	19	1005
22349M	CC 11- 29.5	271	0.033	7	191	16	202
22350M	CC 12-217.5	77	0.090	47	410	20	1324
22351M	CC 14-176.5	94	0.437	19	<20	16	2735
22352M	CC 14-181.5	72	0.237	13	111	15	1359
22353M	CC 14-185.5	77	0.784	27	116	13	3787
22354M	CC 14-190.5	39	0.392	21	151	16	2933
22355M	CC 26- 37.5	418	0.018	9	98	21	412
22356M	CC 26- 45.5	320	0.289	8	82	16	770
22357M <sup>2</sup>	CC 26- 49.5	219	0.024	48	<20	5	72
22358M	CC 26- 56.5	<10	0.013	14	<20	5	<10
22359M	CC 17- 19.9	200	0.264	119	403	23	41
22360M	CC 17- 22.5	<10	0.021	17	389	27	286
22361M	CC 17- 31.5	<10	0.058	9	364	34	1492
22362M <sup>1D</sup>	CC 17- 83.5	34	0.038	18	81	20	1056
22363M <sup>2D</sup>	CC 17- 49.5	224	0.025	46	<20	6	80

MS ~ 130 ang

± 10%

<sup>D</sup>Duplicate of corresponding number.

NOTE: Sn, W, Sr, Bi and Se to follow.

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DATE December 17, 1979

*W. J. Johnson*  
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Code using H. V. Scheme

DATE .. October. 31., 1980. ....

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Ministry of Energy, Mines and Petroleum Resources

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Chu Chua

ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT			
		<i>Massive Sulphides</i>			
		in ppm			
		<u>Sn</u>	<u>W</u>	<u>Sr</u>	<u>Bi</u>
22344M	CC 1- 68.7	409 ± 8	10 ± 12	19 ± 1	<12
22345M	CC 1- 71.5	170 ± 6	19 ± 13	276 ± 9	<13
22346M	CC 1- 75.5	48 ± 6	16 ± 12	52 ± 2	7 ± 12
22347M	CC 1- 79.5	75 ± 6	<12	25 ± 1	<12
22348M <sup>1</sup>	CC 1- 83.5	80 ± 6	15 ± 13	37 ± 1	<13
22349M	CC11- 29.5	5 ± 6	3 ± 10	79 ± 2	<10
22350M	CC12-217.5	13 ± 6	17 ± 11	39 ± 1	17 ± 12
22351M	CC14-176.5	13 ± 5	21 ± 10	228 ± 4	2 ± 10
22352M	CC14-181.5	115 ± 6	27 ± 13	164 ± 4	<13
22353M	CC14-185.5	79 ± 6	29 ± 12	216 ± 5	<12
22354M	CC14-190.5	16 ± 6	18 ± 14	416 ± 14	<15
22355M	CC26- 37.5	18 ± 5	28 ± 7	10 ± 1	<8
22356M	CC26- 45.5	<6	14 ± 10	6 ± 1	<10
22357M <sup>2</sup>	CC26- 49.5	4 ± 6	<13	1 ± 1	<13
22358M	CC26- 56.5	3 ± 6	12 ± 14	4 ± 1	<14
22359M	CC17- 19.9	23 ± 6	8 ± 11	6 ± 1	<11
22360M	CC17- 22.5	8 ± 6	17 ± 12	4 ± 1	<12
22361M	CC17- 31.5	40 ± 6	26 ± 12	6 ± 1	4 ± 12
22362M <sup>1D</sup>	CC17- 83.5	81 ± 6	17 ± 13	37 ± 1	1 ± 12
22363M <sup>2D</sup>	CC17- 49.5	4 ± 6	<13	3 ± 1	<13

<sup>D</sup>Duplicate of corresponding number.

*method of analysis:*

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P - PRESENT

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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
		<u>XRD Report</u>
22434M	CC 26- 26.4	Vein composition: CLINOZOISITE-EPIDOTE solid solution, some QUARTZ and a bit of CHALCOPYRITE.
22435M	CC 1- 94.5	MAGNESITE, SIDERITE, PYRITE, TALC, QUARTZ and minor amounts of CHLORITE and MAGNETITE(?).
22436M	CC 1- 95	SPHALERITE, QUARTZ, PYRITE, MAGNESITE, SIDERITE and minor amounts of TALC, CHLORITE and MAGNETITE have been identified.
22437M	CC 12-199.5	Mainly TALC with a minor amount of CHLORITE.
22438M	CC 12-200.4	TALC with a subordinate amount of MAGNESITE and minor amounts of QUARTZ and CHLORITE.
22439M	CC 12-225	QUARTZ, ANKERITE, CHLORITE, SIDERITE and ILLITE have been identified, a little bit of CLINOPYROXENE (DIOPSIDE?) and FELDSPAR could be present.

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DATE..... November 16, 1979.....

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LABORATORY No.	SUBMITTER'S MARK	LABORATORY REPORT
22636M	CC1:110•1	<p><u>XRD Report</u></p> <p>QUARTZ, Mg-rich CHLORITE and APATITE were identified.</p>

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DATE..... January 24, 1980

CHIEF ANALYST AND ASSAYER.

May, 1980



DATE .. April 30, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

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LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT													
<p>In response to your request for the mineralogy of the Ba-rich samples from the Chu Chua deposit, a total of 22 samples have been analysed and the results are tabulated below. The Ba content is according to M. A. Chaudhry of this laboratory. Descriptive terms of mineral abundances are intended to indicate the relative abundance of the identified species. No attempts have been made to account for differences in mass absorption, fluorescent effect, etc. They should, therefore, NOT be interpreted as quantitative estimates. Despite that great care has been asserted in the interpretation of the diffractograms, minor phases may still be overlooked in the more complicated ones. If in doubt, we are glad to hear your comments and are ready to furnish further analyses, if necessary.</p>															
		% Ba	chl	amp	cym	hya	plag	K-spar	qtz	cc	ank	cpx	epid	mica	others
	CC														
22375M	14:173.5	6.03	M	M	m	m	m	?	m	t	-	-	-	-	
22376M	14:193.2	0.20	M	-	t	-	-	-	M	-	t	-	-	-	py(m) cpy(m)
22377M	14:202.8	2.50	M	-	m	m	-	-	M	M	-	-	-	m	
22378M	14:215	0.21	M	-	-	-	m	-	M	M	-	-	-	m	
22383M	25: 75	0.07	m	m	-	-	M	?	m	?	-	M	m	-	
22384M	25: 95	4.45	M	-	m	m	t	-	M	M	-	-	-	-	
22386M	25:143.5	4.06	M	-	m	m	-	-	M	M	-	-	-	-	
22390M	26: 27.4	0.56	m	t	-	?	M	t	m	t	-	M	?	-	py(t)
22391M	26: 30.5	4.47	m	-	m	m	t	-	M	m	-	-	-	-	
22394M	11: 28.5	4.42	M	-	?	m	-	-	M	m	-	-	-	t	
22395M	11: 39.5	7.72	m	-	m	m	-	-	M	-	M	-	-	-	
22396M	1: 10	0.62	m	m	-	-	M	m	m	-	-	M	m	-	
22398M	11: 40	0.87	m	-	-	-	M	m	m	-	-	M	m	-	tc(t)
22401M	1: 91.5	6.26	m	-	M	?	-	?	M	?	t	-	-	-	tc(t)
22404M	1:129	0.60	M	-	-	?	M	?	M	m	-	-	-	t	
22406M	17: 45.1	3.95	t	-	m	?	-	?	M	t	-	-	-	t	py(m)
22407M	17: 52.3	1.35	m	-	m	?	-	-	M	-	m	-	-	m	ill(?)
22408M	17: 69.7	0.57	M	-	-	-	-	?	M	M	-	-	-	m	
22409M	17: 74.5	0.52	M	t	-	-	M	t	m	m	-	m	m	-	py(?)
22426M	12:200.4	0.42	t	-	-	-	-	-	M	-	-	-	-	-	tc(M) mag(M) mgte(m) bar(t)
22427M	12:188.8	0.48	m	t	-	-	-	?	M	-	m	-	-	m	py(t)
22430M	12:240.0	1.03	m	m	-	-	M	?	m	-	-	M	m	-	

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LEGEND

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*W. J. McMILLAN*  
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DATE ... April 30, 1980 .....

**Province of British Columbia**  
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LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
		<p style="text-align: center;"><u>Symbol Legend:</u></p> <p>- not detected  ? suspected but not confirmed due to interference or low abundance  t trace component: <math>\approx 5\%</math>  m minor component: <math>\approx 5-15\%</math>  M major component: <math>\approx 15\%</math>  chl chlorite  amp amphibole  cym cymrite: <math>BaAl_2Si_2O_8 \cdot H_2O</math>  hya hyalophane: <math>(K,Na,Be)[(Al,Si)_4O_8]</math>  plag plagioclase  K-spar potassium feldspar  qtz quartz  cc calcite  ank ankerite  cpx clinopyroxene  epid epidote  mica mica  py pyrite  cpy chalcopyrite  mgte magnetite  mag magnesite  tc talc  ill illite  bar barite</p>
		<p><u>Remarks:</u></p> <p>1) Hyalophane in this case could conveniently be considered as a solid solution between orthoclase and celsian with the latter end member suspected to be at least slightly more abundant.</p> <p>2) Chlorite is in general fairly Fe-rich, possibly approaching thuringite whereas mica in most cases is muscovite <math>2M_1</math>.</p>

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## LEGEND

T - TRACE  
M.C. - MAJOR CONSTITUENT  
N.D. - NOT DETECTED  
P - PRESENT

*W. M. Johnson*  
.....  
CHIEF ANALYST





DATE ... April 30, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

SAMPLE RECEIVED FROM ..... W. J. McMILLAN ..... Page 3 .....

ADDRESS ..... Geological Division .....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
<p><u>Remarks</u>  <u>Cont'd.:</u></p>	<p>3) Little Ba-containing minerals have been identified from samples with <math>\lesssim 1\%</math> Ba. Comparing the mineralogy with that of high Ba samples, it seems likely that Ba in them is associated with feldspars and, in their absence, mica.</p> <p>4) Armenite, <math>BaCa_2Al_6Si_9O_{30} \cdot 2H_2O</math>, identified previously in sample 22613M Field No. CC-15-83M) has not been identified in the present suite of samples analysed.</p>	

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Massive Sulphide Samples

SECTION 9950N

DDH	Footage	Comments
CC14	176.5	Brecciated massive sulphides
	181.5	Massive sulphides
	185.5	Massive sulphides
	190.5	Massive sulphides
CC26	37.5	Massive sulphides
	45.5	Massive sulphides
	49.5	Magnetite-rich zone
	56.5	Magnetite-rich zone
CC11	29.5	Massive Sulphides

Massive Sulphide Samples

SECTION 10100N

DDH	Footage	Comments
CC1	68.7	Massive sulphides
	71.5	Massive sulphides
	75.5	Massive sulphides
	79.5	Massive sulphides
	83.5	Massive sulphides
	<del>Sample lost</del> 119.5	<del>Massive sulphides (was this included?)</del>
CC17	19.9	Massive sulphides
	22.5	Massive sulphides
	31.5	Massive sulphides
	83.5	Dup of CC1 83.5 - <del>same</del>
	49.5	" " CC26 49.5 - <del>same</del>
CC12	217.5	Massive sulphides

Chu Chua } Mineralogy of  
 X-Ray } Ba-rich Samples (some only have been chosen)

Field Number	Sample	Lab Number	Rock
CC14 : 173.5 (may be labelled 123.5)	7	22375	Basalt
CC14 : 193.2	8	22376	"Chert"
CC14 : 215	10	22378	Altered Basalt
CC25 : 75	15	22383	Basalt
CC25 : 95	16	22384	Basalt
CC25 : 143.5	18	22386	Altered Basalt
CC26 : 27.4	22	22390	Basalt
CC26 : 30.5	23	22391	Basalt
CC11 : 28.5	26	22394	altered Basalt
CC11 : 39.5	27	22395	Altered Basalt
CC1 : 10	28	22396	Basalt
CC1 : 91.5	33	22401	"Chert"
CC17 : 45.1	38	22406	"Chert"
CC17 : 52.3	39	22407	Chert
CC12 : 200.4	58	22426	Chert
CC12 : 240.0	62	22430	Basalt

Chu Chua Massive Sulphides and Massive Magnetite Samples  
Semi-Quantitative Spectrographic Analyses

Sample	Pb%	Cu%	Zn%	Ag	V	Ti	Ni	ppm Co	ppm Sn	Ba%	Mo%	As%	Sr%	Sb%	Elements in Trace Amounts	Sample Type
CC1	68.7	.05	2.5	2	T++	T	T	170	1000	.08	T	-	-	-	Bi Cd Zr Sr Cr W	Massive Sulphides
	71.5	.05	1.25	.015	T+	T	T	200	700	5	.07	-	.04	-	Bi - Zr - Cr W	" "
	75.5	.05	.55	.4	T+	ND	T	400	100	.08	.02	.03	-	-	- Cd Zr Sr Cr W	" "
	79.5	.04	.75	.015	T+	T	T	250	200	2	T	-	-	-	Bi - Zr - Cr W	" "
	83.5	.01	.60	.025	T+	T	T	200	200	1	T	-	-	-	- - Zr Sr Cr W	" "
CC11	29.5	T	1.0	.02	T+	T	T	600	ND	.16	.01	.04	-	-	Bi - - Sr Cr W	" "
CC12	217.5	.04	1.75	.07	T+	ND	T	350	T	.025	T	.07	-	-	Bi - Zr Sr Cr -	" "
CC14	176.5	.05	1.0	.25	T+	T	T	400	ND	.05	T	-	.03	-	Bi - Zr - Cr W	" "
	181.5	.025	1.0	.25	T+	T	T	250	300	5	.01	-	.02	-	Bi - Zr - Cr -	" "
	185.5	.05	1.0	.5	T+	T	T	400	200	5	T	-	.025	-	- Zr - Cr W	" "
	190.5	.12	.17	.35	T+	ND	T	T	T	5	T	.04	.05	-	- Zr - Cr W	" "
CC26	37.5	T	1.0	T	T+	T	T	1200	T	.02	.02	.03	-	.04	- Zr Sr Cr W	" "
	45.5	T	.3	.3	T	T	T	1400	ND	.01	.025	.02	-	-	- Zr Sr Cr W	" "
	49.5	ND	.05	.02	T-	T	T	150	ND	T	.025	-	-	-	- Zr - Cr W	Magnetite Lode
	56.5	ND	T	T	ND	ND	T	100	ND	.01	T-	-	-	-	- Zr - Cr W	" "
CC17	19.9	.02	5	.25	T+	ND	T	.01	700	100	.04	.01	.04	-	Bi Zr Sr Cr W	Massive Sulphides
	22.5	T	.7	.02	T	T	T	100	500	.015	T	-	-	-	Bi Zr - Cr W	" "
	31.5	.05	1.0	.04	T+	T	T	T	100	.025	T	.05	-	-	Bi Zr - Cr W	" "
*	83.5	.01	.55	.03	T+	T	T	250	170	1	T	-	-	-	Bi Zr - Cr W	Duplicate of CC1:83.5
*	49.5	ND	.06	.02	T-	T	T	160	ND	T	.025	-	-	-	- Zr - Cr W	Duplicate of CC26:49.5