

1120

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

MJ 1 & 2, #16085 & 16086; GMB 1 - 9, #16042 - 16050
JLG, TSM, CHUCK & JGG Fractions, #16065 - 16068
EM 1 - 8 & 10, #14707 - 14714 & 14716
MAG 1 & 2, #14717 & 14718, ME 1 & 2, #14990 & 14991
GAM 1, #19096 and SS 11 - 13 & 15, #16079 - 16081
& 16083 MINERAL CLAIMS.

15 Miles Northwest of Courtenay

49° 45' North Latitude, 125° 15' West Longitude

Nanaimo Mining Division

Qualicum Mines Ltd.

Holding Company for

Mt. Washington Copper Co. Ltd.

Vancouver B.C.

October 18, 1967

W.G. Stevenson, P. Eng.

LOCATION MAP

WESTERN CANADA & U.S.A

Miles 0 10 20 30 40 50 60 70 80 Miles



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1120 MAP 1

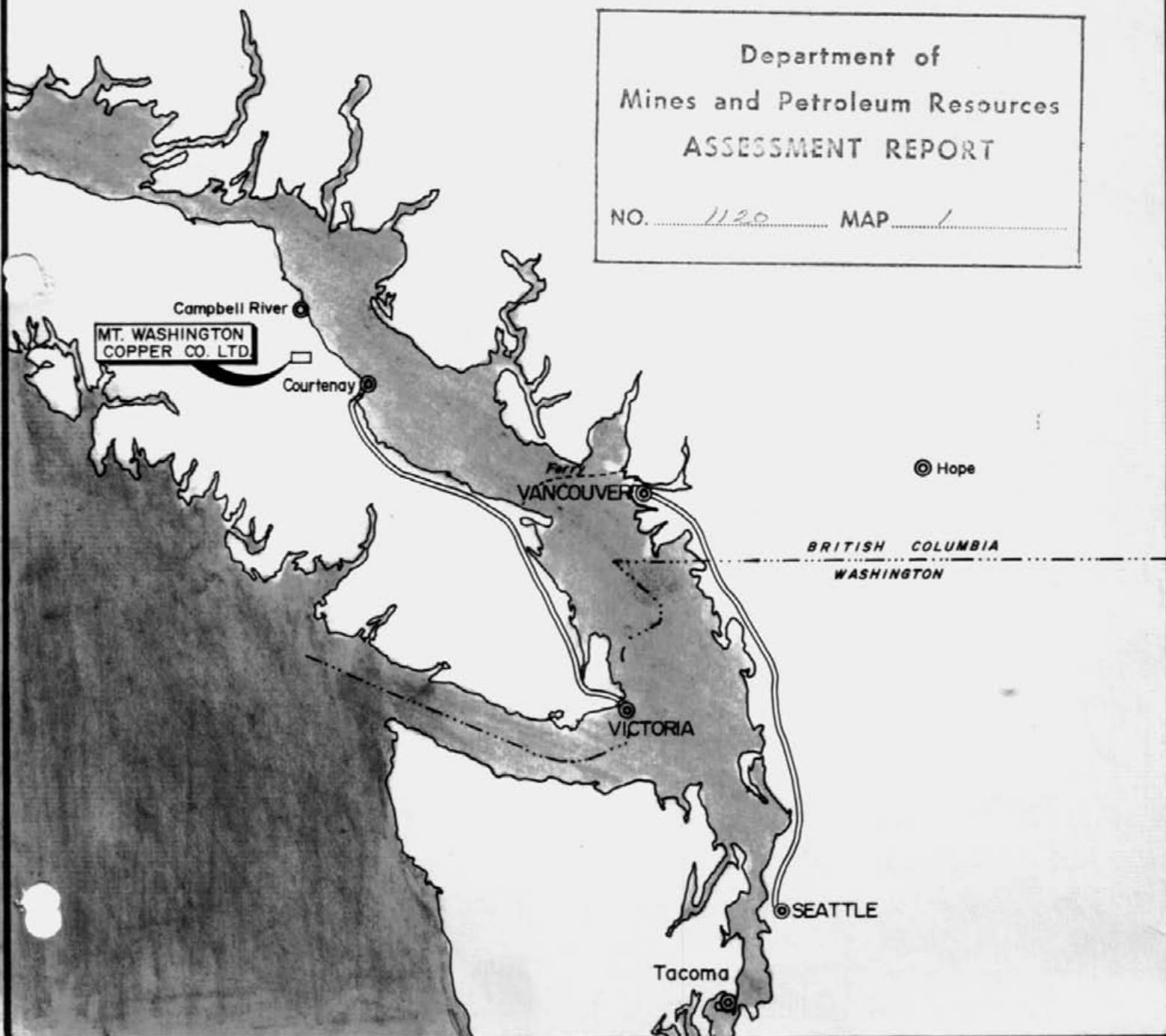


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APPENDIX

- ~~#1~~ 1. Index map, scale 1" = 100 miles
- ~~#2~~ 2. Photocopy of part of mineral Map 69, Scale 1" = 1 mile
- ~~#3~~ 3. Photocopy of Geology Map Scale 1" = 1 mile
- ~~#4~~ 4. Photocopy of Geochemical Map Scale 1" = 400'
5. Notes on Geochemical Survey with Histograms by J.S.Scott, P.Eng.
6. Assay Certificates,
7. Grouping Notices.
8. Statutory Declaration
9. B. C. Department of Mines, and Petroleum Resources,
Affidavit on Application for Certificat of Work, Form B.

INTRODUCTION

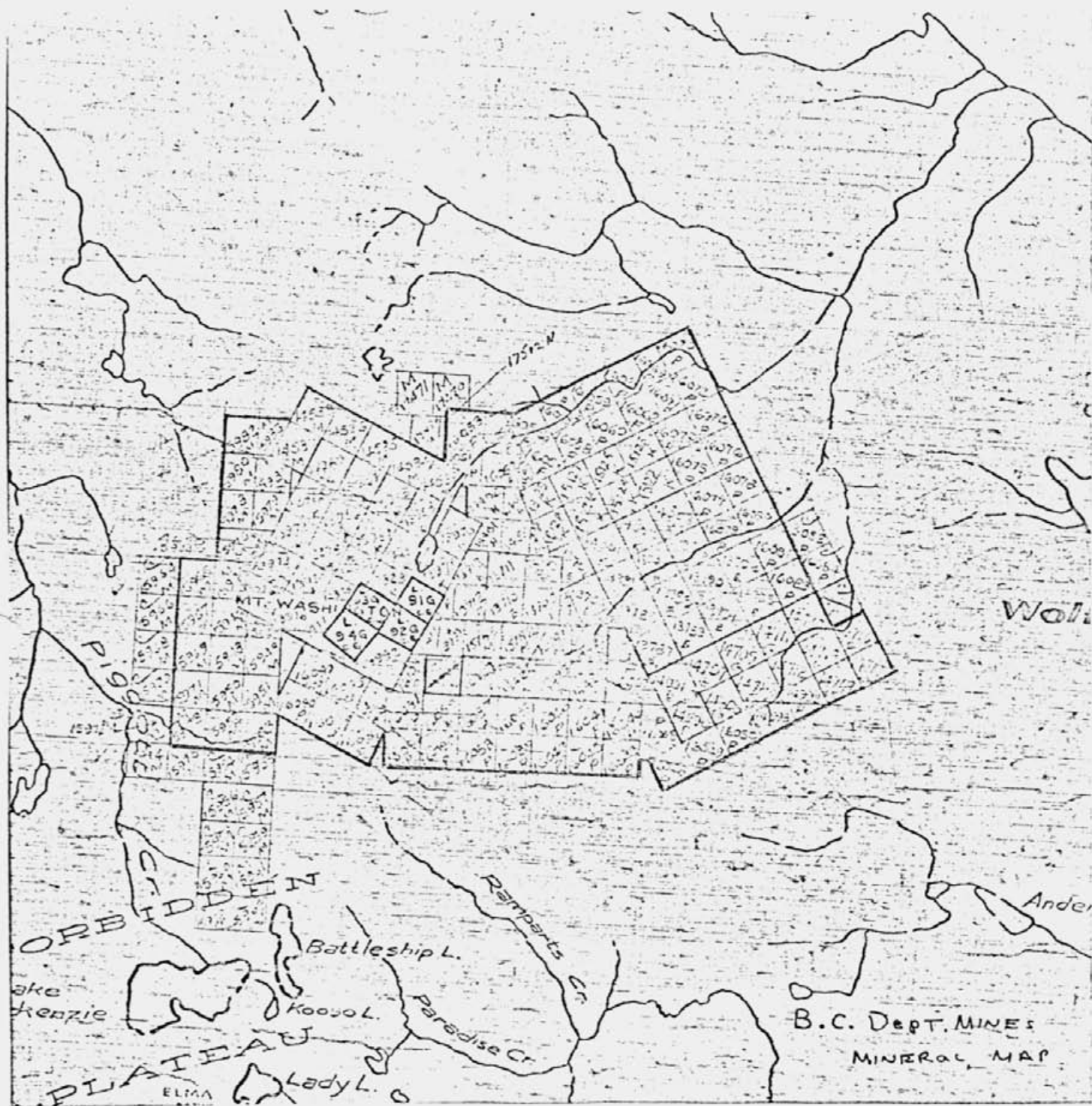
During the 1967 field season I supervised an exploration programme over the property held by Mt. Washington Copper Co. This property is located on Vancouver Island, 13 miles northwest of Courtenay and with an elevation in excess of 3500 feet. The exploration programme involved prospecting, geological mapping, geochemical sampling and geophysical surveying with a Ronka Electromagnetic Instrument.

This report covers the geochemical program that was conducted over an area located approximately 3 miles southeast of McKay Lake and in the vicinity of the concentrator.

This report is being submitted in lieu of physical work to accompany an affidavit on application for certificate of work to satisfy the assessment requirements on 33 mineral claims.

PROPERTY AND TITLE

Because of its location in the Esquimalt and Nanaimo Railroad grant area, title to the base metal mineral rights covering some eleven square miles has been granted to Mt. Washington by Canadian Pacific Oil and Gas under the terms that have a provision for nominal royalty payments. Mt. Washington has staked mineral claims to acquire title to the precious metals.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1120 MAP 2

MAP
showing location of
Mineral Claims
Mount Washington Copper Co. Ltd.
Nanaimo Mining Division
British Columbia
Scale 1" = 1 mile

LOCATION AND ACCESS

Mt. Washington is located on Vancouver Island, 105 miles northwest of Vancouver, at 49°45' North latitude and 125°15' West Longitude. It is situated 16 miles northwest of Courtenay, a station on the E. & N. Railway at Tidewater. Access is gained over improved roads from Courtenay through a Crown Zellerbach timber licence. The copper smelter of American Smelting and Refining Co. at Tacoma is located 240 miles southerly.

The copper, lead, zinc, silver deposit of Western Mines is located in Strathcona Park near the southern end of Buttle Lake, 19 miles southwest of Mt. Washington. The Argonaut Mine, which produced two million tons of iron concentrate, is located 13 miles northwest of Mt. Washington. Shafts and tunnels near Comox Lake, ten to fifteen miles southeasterly from Mt. Washington, mark the position of several dormant coal mines.

HISTORY

Quartz veins which contained gold and silver were discovered and staked by J.M. and R.D. McKay in 1940. Mr. Karl Springer financed and drove adits on these veins during 1944 and 1945. These veins carried appreciable copper and have been the source of the past production.

HISTORY: (Continued)

A major exploration program was conducted during 1957, 1958 and 1959 under agreement with Noranda Mines Ltd. Consolidated Mining and Smelting Company optioned the property and initiated an exploration programme during 1963 and 1964. Mt. Washington Copper Co. was formed in 1956 by G. C. Murray, a prospector. Mt. Washington Milling Co., a subsidiary of Mt. Washington Copper Company was formed in 1964 as a vehicle for financing production. The Milling Company was granted a lease to the mineral rights on an area of approximately one half square mile covering the known ore reserve, and a copper mill which was located at Greenwood, B. C. and which was owned by Cumberland Mining Company, was moved to Mt. Washington. This mill commenced operation in 1965 with a capacity of six hundred tons per day. From January, 1965 to November, 1966, 392,178 tons of ore were milled with an average grade of 1.16% copper, and 0.01 ounces gold, and 0.5 ounces silver per ton.

GEOLOGY

The oldest rocks exposed on the property are massive, thick layered, gently dipping, dark basalts with amygdaloidal and pillow structure, along with volcanic tuff and breccia members. This volcanic series, the Karmutsen of Triassic Age, extends over a large part of Vancouver Island and over the Lower Mainland of British Columbia. It is overlain unconformably by

GEOLOGY: (Continued)

gently dipping sandstone, quartzite and shale beds, which contain minor amounts of carbonaceous material here, and which are the host rocks of the coal on Vancouver Island. These sediments, part of the Comox formation, are of the Cretaceous Age.

Mt. Washington is a land mass which rises to a height of 5215 feet, a distance of twelve miles from the ocean. The Karmutsen volcanic formation covers the lower slopes of Mt. Washington and the sedimentary Comox formation extends over the upper slopes of the mountain. The core of the mountain is an igneous stock that has intruded the volcanic and sedimentary formations, probably in Tertiary time. This intrusive complex outcrops over an area of some two square miles. It has an irregular shape, elongate in an easterly direction. A number of other porphyry stocks and sills of the Tertiary Age occur within an area of approximately 140 square miles centered over Mt. Washington. These are shown on G.S.C. Geological Map 2- 1965 Comox Lake by J. E. Muller. The intrusives are pipe-like, possibly representing volcanic vents with associated porphyry sills. Some of these intrusions contain low grade copper mineralization. One of these, the Gem Lake Prospect, located $7\frac{1}{4}$ miles southwesterly from Mt. Washington, was diamond drilled by Falconbridge Nickel Mines Ltd. This is described as a zone of copper mineralization disseminated through a breccia pipe.

GEOLOGY: (Continued)

The intrusive rock on Mt. Washington is quartz diorite with associated porphyry and two or more intrusive breccias. These breccias contain an assemblage of angular fragments, both large and small, in a fine matrix of granular quartz, feldspar, and debris from other rocks. Fragments of porphyry are invariably present, accompanied by fragments of volcanic rocks, quartzite and shale, depending on the adjacent wall rock. Some of the breccias contain iron and copper sulphide mineralization. The breccias associated with the Mt. Washington intrusive extend easterly over a distance of several thousand feet along the igneous contacts. The form, shape and extent of this porphyry-breccia complex is largely unknown.

The most predominant faulting within the Mt. Washington property is southeasterly parallel to the regional Cordilleran trend. These faults have provided guidance to the emplacement of the intrusive bodies and to the localization of mineralization. Faults with north-south and northwest-southeast strike direction have been mapped in this area. These are more closely spaced in the vicinity of Mt. Washington, however the fault pattern as it affects this area is only imperfectly known.

MINERALIZATION:

On the Mt. Washington property mineralization is widespread and can be found in all rock types. This mineralization is essentially pyrite, pyrrhotite, arsenopyrite and chalcopyrite, with variable amounts of gold, silver and molybdenite. Three types of mineral deposits have been observed:

- i. Gently dipping shears containing narrow quartz veins and lenses mineralized with copper sulphides and molybdenum.
- ii. Massive sulphides containing iron and copper in shear zones cutting the volcanic rocks.
- iii. Disseminated low grade copper mineralization in diorite, breccias and volcanics.

A gently dipping shear zone that contains quartz veins and lenses mineralized with copper has been the source of all production to date. This vein varies between a few inches up to twenty feet thick though averages possibly five feet thick. It occurs near the contact between sedimentary beds and porphyry sills and extends over a wide area. The quartz veins have been developed in two open pits. The presence of a limited tonnage of ore grade material extending out from these open pits has been indicated by the past work, however, the waste to ore stripping ratio prohibits profitable extraction.

MINERALIZATION: (Continued)

Small isolated high grade occurrences of chalcopyrite have been noted in many localities. This mineralization is randomly exposed in all rock types and widely distributed over the property. These occurrences are irregular, discontinuous and of unknown length. They are frequently associated with steeply dipping shear zones.

Chalcopyrite has been found along with other sulphides disseminated within quartz diorite, porphyry and all of the intrusive breccias.

Alteration products, mainly biotite, actinolite, chlorite, epidotite and quartz have been noted. As the altered rocks are generally fractured and often contain copper mineralization the alteration appears to be spatially related to the faulting and may be related to the main period of mineralization.

EXPLORATION POSSIBILITIES:

Of the three types of occurrence of copper mineralization in the concession area, the greatest commercial potential is offered by the disseminated type within or associated with intrusive rocks and volcanics. Without losing sight of the veins in the sediments and the massive sulphide lenses in the volcanics, the recent exploration has been oriented toward locating and testing the disseminated type mineralization. This has tended to restrict exploration to areas of known intrusive or breccia complex and to areas where these rocks might be expected.

EXPLORATION POSSIBILITIES: (Continued)

The methods used in 1966 and 1967 were selected for their ability to extend favourable rock types, structures and mineralization into areas concealed by overburden. These exploration methods have included a review of the past geological work, geological mapping, prospecting, geochemical sampling and electromagnetic surveying.

GEOCHEMICAL SURVEY:

Two prospectors were engaged to establish ten picket lines each approximately one mile long over an area where previous reconnaissance work had indicated high copper content in the soil. A series of 150 soil samples were collected along these traverse lines spaced 200 feet apart. These soil samples were collected at the zone immediately below the humas horizon which generally extends to between six inches and two feet below the surface.

The soil samples were submitted to Biometals Corporation Limited (N.P.L.), 22 East 2nd Avenue, Vancouver British Columbia, and to T.S.L. Laboratories Ltd., 325 Howe Street, Vancouver, for assay. These samples were all tested for copper and random samples were assayed for molybdenum.

Mr. J. S. Scott, P.Eng., Consulting Geologist in Vancouver, has made an assessment of the assay results of this work and his report is attached as an appendix to this report.

GEOCHEMICAL SURVEY: (Continued)

The attached map drawn to a scale of 1 inch to 400 feet will show the position of the traverse lines and sample location. The assay results of copper in parts per million are shown opposite the sample location.

The assay results from a geochemical programme conducted over the property during 1967 have indicated that a copper content in the soil up to 220 parts per million should be classed as background or normal. A number of soil samples with a copper content above 280 PPM suggest anomalous conditions in an area $2\frac{1}{2}$ miles easterly from the open pits which yielded the past production. This area is on the projection of faults and the associated intrusive complex extending easterly from Mt. Washington.

During 1962 and 1963 Cominco put down nine diamond drill holes into the western and northern extremities of this anomalous zone. These bore holes exposed breccia, intrusive, sediments and volcanics with variable amounts of copper sulphide. Assay results from five of these holes showed appreciable intercepts of 0.3% copper and all of the holes penetrated minor amounts of scattered copper sulphides.

CONCLUSIONS:

1. The geochemical work has indicated that zinc content in the soil does not provide information that can be correlated, for guidance in exploration.

CONCLUSIONS: (Continued)

2. The Assay results for copper in amounts less than 220 parts per million are background or normal and do not provide information that can be used in exploration.

3. The assay results above 280 parts per million copper are considered significant and where two or more adjacent samples have yielded these results these are considered anomalous.

4. Three specific areas of high copper content in the soil have been indicated within the area surveyed. These have been outlined and shaded on the attached map.

Respectfully submitted,

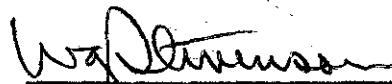

W. G. STEVENSON, P. ENG.

C E R T I F I C A T E

I, William G. Stevenson, do hereby certify:

1. That I am a Consulting Geological Engineer with offices at Suite 509 Stock Exchange Building, 475 Howe Street, Vancouver, B.C.
2. That I am a graduate of University of Utah, 1946, with a Bachelor of Science degree.
3. That I am a registered Professional Engineer in the Association in British Columbia.
4. That I have practised my profession for twenty years.
5. That this report, dated October 18th, 1967 is based on work that has been accomplished under my direction and that I have made periodic trips to this property during the 1967 field season.

Dated at Vancouver, British Columbia, this 18th day of October, 1967.



W.G. STEVENSON, P. ENG.

J. S. SCOTT
CONSULTING GEOLOGIST

402 WEST PENDER STREET
VANCOUVER 3
BRITISH COLUMBIA

August 21, 1967.

Mr. W. G. Stevenson,
Consulting Geologist,
475 Howe Street,
Vancouver, B.C.

Dear Bill;

Re Mount Washington Copper.

As requested, I have reviewed the data on geochemical results of your follow-up work on Mount Washington Copper. I enclose the map which I have marked with suggested additional lines to give more definitive detail in anomalous areas. I would also recommend that the sample spacing be reduced.

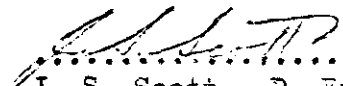
The distribution of copper values is much the same as in your previous work. (see histogram enclosed) Values of 300 p.p.m. and over should be considered anomalous. Values of 240-300 p.p.m. are possibly anomalous.

The number of moly determinations available is not large enough to establish what should be considered anomalous. However, there does seem to be a crude relationship between copper and moly in the copper anomalous zone. I would suggest that moly be determined in future samples.

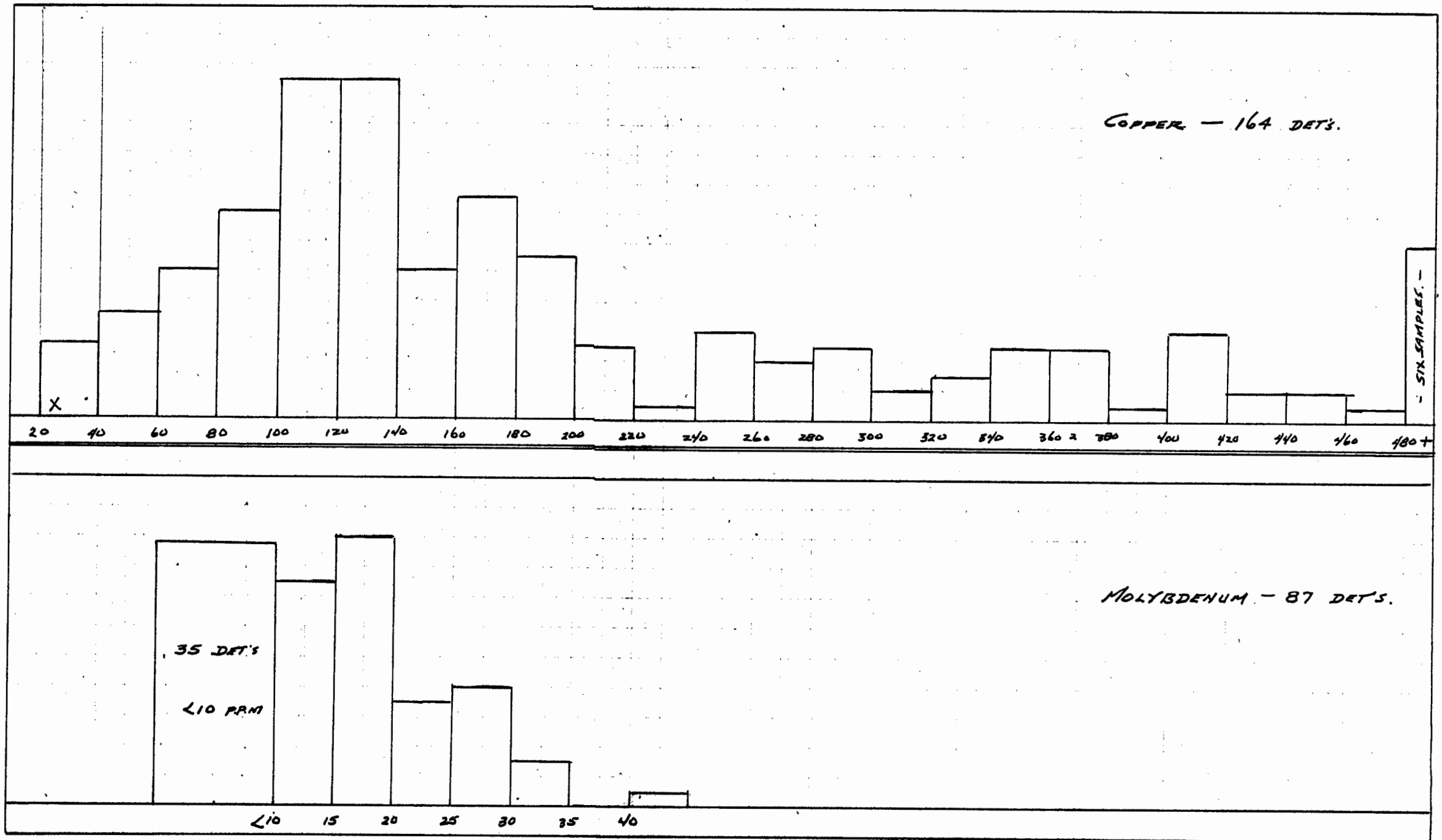
A group of copper anomalous values east of the concentrator may possibly result from dust salting. A close examination of soils in the area should be made before accepting these results at face value or discarding them.

As suggested in an earlier report moly determinations have been shown to vary widely from one lab to another. Some routine checking is mandatory in spite of possible politics which may be involved.

Yours very truly,


.....
J. S. Scott. P. Eng.

HISTOGRAMS - COPPER - MOLYBDENUM.



AUGUST 21, 1967 J. S. SCOTT. P. ENG.

MOUNT WASHINGTON COPPER.

GEO-CHEMICAL ANALYSIS REPORT

PROJECT: *Mt. Washington*

REPORT NO:

SHEET: *1*
OF: *2*

DATE: *June 29/67*

APPROVED: *E. Fryberg*

	SAMPLE IDENT.	REF. NO.	Cu		Mo							
				ppm		ppm						
1	<i>Line # 1</i>	<i>A 5444</i>		<i>80</i>		<i><10*</i>						
2	<i>2</i>	<i>5445</i>		<i>68</i>		<i><10</i>						
3	<i>3</i>	<i>5446</i>		<i>64</i>		<i><10</i>						
4	<i>4</i>	<i>5447</i>		<i>139</i>		<i><10</i>						
5	<i>5</i>	<i>5448</i>		<i>88</i>		<i><10</i>						
6	<i>6</i>	<i>5449</i>		<i>105</i>		<i><10</i>						
7	<i>7</i>	<i>5450</i>		<i>108</i>		<i><10</i>						
8	<i>8</i>	<i>5451</i>		<i>27</i>		<i><10</i>						
9	<i>9</i>	<i>5452</i>		<i>43</i>		<i><10</i>						
10	<i>10</i>	<i>5453</i>		<i>129</i>		<i><10</i>						
11	<i>11</i>	<i>5454</i>		<i>80</i>		<i><10</i>						
12	<i>12</i>	<i>5455</i>		<i>297</i>		<i><10</i>						
13	<i>13</i>	<i>5456</i>		<i>118</i>		<i>20</i>						
14	<i>14</i>	<i>5457</i>		<i>145</i>		<i><10</i>						
15	<i>15</i>	<i>5458</i>		<i>103</i>		<i><10</i>						
16	<i>16</i>	<i>5459</i>		<i>363</i>		<i>15</i>						
17	<i>Line # 1</i>	<i>5460</i>		<i>83</i>		<i><10</i>						
18	<i>2</i>	<i>5461</i>		<i>46</i>		<i><10</i>						
19	<i>3</i>	<i>5462</i>		<i>66</i>		<i><10</i>						
20	<i>4</i>	<i>5463</i>		<i>153</i>		<i><10</i>						
21	<i>5</i>	<i>5464</i>		<i>470</i>		<i><10</i>						
22	<i>7</i>	<i>5465</i>		<i>185</i>		<i>10</i>						
23	<i>8</i>	<i>5466</i>		<i>88</i>		<i>15</i>						
24	<i>9</i>	<i>5467</i>		<i>340</i>		<i><10</i>						
25	<i>10</i>	<i>5468</i>		<i>370</i>		<i>25</i>						
26	<i>11</i>	<i>5469</i>		<i>215</i>		<i><10</i>						
27	<i>12</i>	<i>5470</i>		<i>161</i>		<i><10</i>						
28	<i>13</i>	<i>5471</i>		<i>188</i>		<i><10</i>						
29	<i>14</i>	<i>5472</i>		<i>172</i>		<i><10</i>						

* - less than 10 ppm

dry

Extra

CEO-CHEMICAL ANALYSIS REPORT

PROJECT: *A. H. Stevenson*

REPORT NO:

SHEET: 1
OF: 2

DATE: *July 18, 1967*

APPROVED: *E. Fryberg*

	SAMPLE IDENT.	REF. NO.	Cu		Mo					
			ppm	ppm	ppm	ppm				
1	<i>line 7 #1</i>	A 5560	161	20						
2	2	5561	200	25						
3	3	5562	195	13						
4	4	5563	134	17						
5	5	5564	153	40						
6	6	5565	308	20						
7	7	5566	145	28						
8	8	5567	264	30						
9	9	5568	126	24						
10	10	5569	264	12						
11	11	5570	418	17						
12	12	5571	286	17						
13	13	5572	182	17						
14	14	5573	418	16						
15	15	5574	264	16						
16	16	5575	396	18						
17	<i>line 9 #1</i>	5576	150	14						
18	2	5577	188	30						
19	3	5578	188	18						
20	4	5579	105	28						
21	5	5580	108	14						
22	6	5581	173	16						
23	7	5582	166	8						
24	8	5583	418	14						
25	9	5584	374	26						
26	10	5585	264	25						
27	11	5586	118	20						
28	<i>line A #1</i>	5587	92							
29	2	5588	113							

GEO-CHEMICAL ANALYSIS REPORT

PROJECT: *W. G. Stevenson*

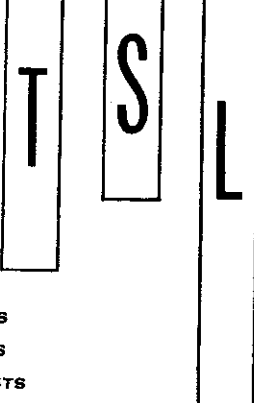
REPORT NO:

SHEET:
OF:

DATE: *July 27/67*

APPROVED: *E. Fryer*

	SAMPLE IDENT.	REF NO.	Cu			
			ppm			
31	<i>Line 4-14</i>	A 5632	124			
32	15	5633	118			
33	16	5634	103			
34	17	5635	242			
35	18	5636	286			
36	<i>Line 6-1</i>	5637	506			
37	2	5638	114			
38	3	5639	111			
39	4	5640	95			
40	5	5641	93			
41	6	5642	116			
42	7	5643	166			
43	8	5644	118			
44	9	5645	103			
45	10	5646	160			
46	11	5647	124			
47	12	5648	156			
48	13	5649	82			
49	14	5650	171			
50	15	5651	118			
51	16	5652	240			
52	<i>Line 8-1</i>	5653	130			
53	2	5654	90			
54	3	5655	134			
55	4	5656	134			
56	5	5657	140			
57	6	5658	94			
58	7	5659	70			
59	8	5660	210			
60	9	5661				



Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM MR W. G. STEVENSON
475 HOWE STREET
VANCOUVER, B. C

REPORT NO.
V3014-1

SAMPLE(S) OF
SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	LINE # 1 17	115						
2	19	220						
3	20	72						
4	21	84						
5	LINE # 1 22	50						
6	LINE # 2 18	170						
7	19	113						
8	20	135						
9	21	111						
10	LINE # 2 22	166						
11	LINE # 2 23	160						
12	LINE # 3 20	155						
13	21	145						
14	22	167						
15	24	365						
16	LINE # 3 25	74						
17	LINE # 4 19	127						
18	1 20	230						
19	21	212						
20	LINE # 4 22	210						

DATE October 17, 1967

SIGNED

DIVISION OF TECHNICAL SERVICE LABORATORIES



T
S
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Laboratories Limited

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TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

ASSAYERS
CHEMISTS
GEOCHEMISTS

SAMPLE(S) FROM MR W. G. STEVENSON

REPORT NO.
V3018-2

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

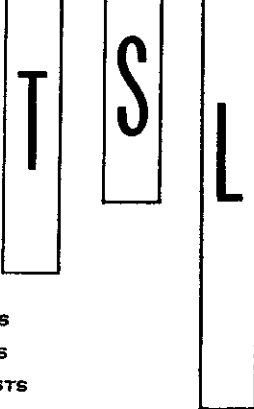
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	LINE # 4 23	56						
2	24	32						
3	A	510						
4	LINE # 4 B	135						
5	LINE # 5 19	102						
6	20	235						
7	21	163						
8	22	175						
9	23	120						
10	LINE # 5 24	110						
11	LINE # 5 A	160						
12	B	135						
13	C	78						
14	D	167						
15	E	120						
16	LINE # 6 17	110						
17	18	180						
18	19	175						
19	20	260						
20	LINE # 6 21	172						

DATE October 17, 1967

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Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM MR G.W. STEVENSON

REPORT NO.
V3014-3

SAMPLE(S) OF SOIL

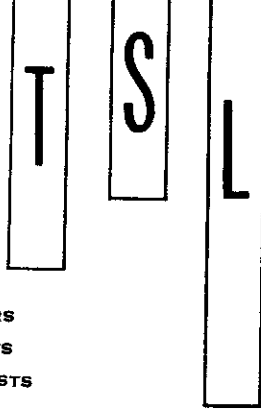
RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	Mo	Co
1	L#6	22	150						
2		A	330						
3		B	87						
4		C	80						
5		D	54						
6		E	45						
7	LINE#7	17	175						
8		18	151						
9		19	155						
10	LINE#7	A	135						
11	LINE#7	B	350						
12		C	255						
13		D	110						
14		E	200						
15	LINE#8	12	350						
16		13	330						
17		14	240						
18		15	253						
19		16	290						
20	LINE#8	17	112						

DATE October 17, 1967

SIGNED





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

ASSAYERS
CHEMISTS
GEOCHEMISTS

SAMPLE(S) FROM MR. G.W. STEVENSON

REPORT NO.
V3014-4

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

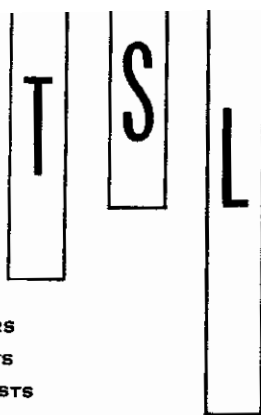
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	LINE #8 A	240						
2	B	1490						
3	C	93						
4	LINE #8 D	145						
5	LINE #9 12	220						
6	13	140						
7	14	200						
8	15	240						
9	16	160						
10	LINE #9 A	34						
11	LINE #9 B	540						
12	LINE #9 C	240						
13	LINE #10 10	135						
14	11	200						
15	12	280						
16	13	490						
17	14	210						
18	A	228						
19	B	240						
20	Bench 1	500						

DATE October 17, 1967

SIGNED

DIVISION OF TECHNICAL SERVICE LABORATORIES





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

ASSAYERS
CHEMISTS
GEOCHEMISTS

SAMPLE(S) FROM MR. W.G STEVENSON

REPORT NO.
V3018-5

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	Bench 2	140						
2	3	375						
3	4	660						
4	5	690						
5	6	1200						
6	7	950						
7	8	1230						
8	9	1140						
9	Bench 10	520						
10	50' up from marker 11	170						
11	50' back from marker 12	260						
12	5493	230						
13	5486	220						
14	5482	530						
15	5470	190						
16	5469	280						
17	5445	65						
18								
19								
20								

BY HOT HNO₃—ACID EXTRACTION

DETERMINED BY A.A.

DATE

October 17, 1967

SIGNED

DIVISION OF TECHNICAL SERVICE LABORATORIES



MINERAL ACT

FORM I



NOTICE TO GROUP

Mining Division Nanaimo Location Mt. WashingtonName of group 15We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM	Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
MJ #1 Nov.	16085	Qualicum Mines Ltd.	64779
MJ #2 Nov.	16086		
GMB #5 Nov.	16406 ^{CH}		
GMB #6 Nov.	16407 ^{CH}	Agent:	
GMB #3 Nov.	16044	<i>J. B. Bailey</i>	
GMB #4 Nov.	16045		
GMB #1 Nov.	16042	J. B. Bailey	58405
GMB #2 Nov.	16043		
Ken #1 May	13706		
Murex #10 July	13331		
TISM Fr Nov.	16066		
JLG Fr Nov.	16067 ³		
Gem #1 May	13786		
Gem #2 May	13787		
Gem #4 May	13789		
Chuck Fr Nov.	16067		
ME #2	14991		
EM #1 June	14707		
EM #3 June	14709		
EM #5 June	14711		
EM #7 June	14713		
JGG Fr Nov.	16068		
ME #1	14990		
EM #2 June	14708		
EM #4 June	14710		
EM #6 June	14712		
EM #8 June	14714		
EM #10 June	14716		
GMB #7 Nov.	16048		
GMB #8 Nov.	16049		
GMB #9	16050		
MAG #4 Nov.	14983		
MAG #3 Nov.	14992		
MAG #2 June	14718		
MAG #1 June	14717		

MINERAL ACT

FORM I



NOTICE TO GROUP

Mining Division Nanaimo Location Mt. WashingtonName of group 16We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM		Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
Pearl #5	Aug.	13966	Qualicum Mines Ltd.	64779
Pearl #3	Aug.	13964		
Pearl #1	Aug.	13962		
Rondo #2	Aug.	13971	Agent	
Ken #8	May	13713	<i>J B Bailey</i>	
Ken #6	May	13711		
Ken #4	May	15022	J. B. Bailey	58405
Ken #2	May	13707		
Murex #9	Aug.	14001		
Domineer #2	Aug.	12323		
Domineer #1		L91G		
Ken #7	May	13712		
Ken #5	May	13710		
Ken #3	May	13708		
		L93G		
		L92G		
KM Fr	Nov.	16110		
Gem #17	Aug.	13991		
Gem #15	Sept.	15183		
Gem #13	Sept.	15182		
Gem #11	Sept.	15181		
Gem #9	Oct.	14423		
		L94G		
Gem #19	Aug.	13992		
MJ Fr	Nov.	16109		
Gam #1		19096		
Gem #16	October	14427		
Gem #14	Oct.	14426		
Gem #12	Oct.	14425		
Gem #10	Oct.	14424		
MJ #7	Nov.	16091		
MJ #5	Nov.	16089		
MJ #3	Nov.	16087		

* May be signed by agent on behalf of owner.

MINERAL ACT

FORM I



NOTICE TO GROUP

Mining Division Nanaimo Location Mt. Washington

Name of group Group #17

We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the *Mineral Act*:—

NAME OF CLAIM		Record No. or Lot No.	SIGNATURE OF OWNER*	Free Miner's Certificate No.
SJO No. 3	Nov.	16053	Qualicum Mines Ltd.	64779
SJO No. 4	Nov.	16054		
SJO No. 5	Nov.	16055	Agent:	
SJO No. 6	Nov.	16056	<i>J. B. Bailey</i>	
SJO No. 8	Nov.	16058		
SJO No. 10	Nov.	16060		J. B. Bailey
EWA No. 2	Aug.	15123		
SS No. 5	Nov.	16073		
SS No. 8	Nov.	16076		
SS No. 7	Nov.	16075		
SJO No. 1	Nov.	16051		
SJO No. 12	Nov.	16062		
Fr. SJO No. 11	Nov.	16061		
SS No. 9	Nov.	16077		
SS No. 10	Nov.	16078		
Murex No. 12	July	13332		
Murex No. 14	July	13333		
SS No. 11	Nov.	16079		
SS No. 12	Nov.	16080		
GEM No. 3	May	13788		
GEM No. 5	May	13790		
GEM No. 7	May	13792		
SS No. 13	Nov.	16081		
GEM No. 6	May	13791		
GEM No. 8	May	13793		
SS No. 15	Nov.	16083		

* May be signed by agent on behalf of owner.

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.
To Wit:

In the Matter of **The Geochemical Survey over certain Claims held by Qualicum Mines Ltd. near Mt. Washington in the Nanaimo M. D.**

I, **William G. Stevenson, P.Eng., Consulting Geologist**

of **509 - 475 Howe Street, Vancouver, B. C.**

in the Province of British Columbia, do solemnly declare that **During 1967 a tape and compass survey was accomplished to establish the position of 10 traverse lines. These lines were picketed and soil samples collected along each of these lines. These samples were assayed for copper and molybdenum. I have supervised this exploration program and have prepared maps, and a report which accompanies this declaration and which provides details for this work.**

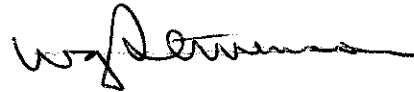
The costs to complete the program have been \$3800. The program initiated on May 31 and is continuing on October 17, 1967. A total of 40 days have been required to accomplish this program.

Mr. D. F. Parker, Campbell River - Prospector and Messrs: D. Trehern and C. Bleberdorf, Courtenay have been employed on the project.

Parker @ \$440/month + 10%	\$605
Bleberdorf & Trehern @ \$350/month + 10%	385
Transportation @ \$200/month	<u>200</u>
	\$1,190/month
$\frac{1,190}{20} = 59.50/\text{day} \times 40 \text{ wages}$	\$2,380
Assaying	220
Supervision and Engineering	<u>\$1,200</u>
	\$3,800

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the city
of Vancouver, in the
Province of British Columbia, this 19
day of October 1967, A.D.

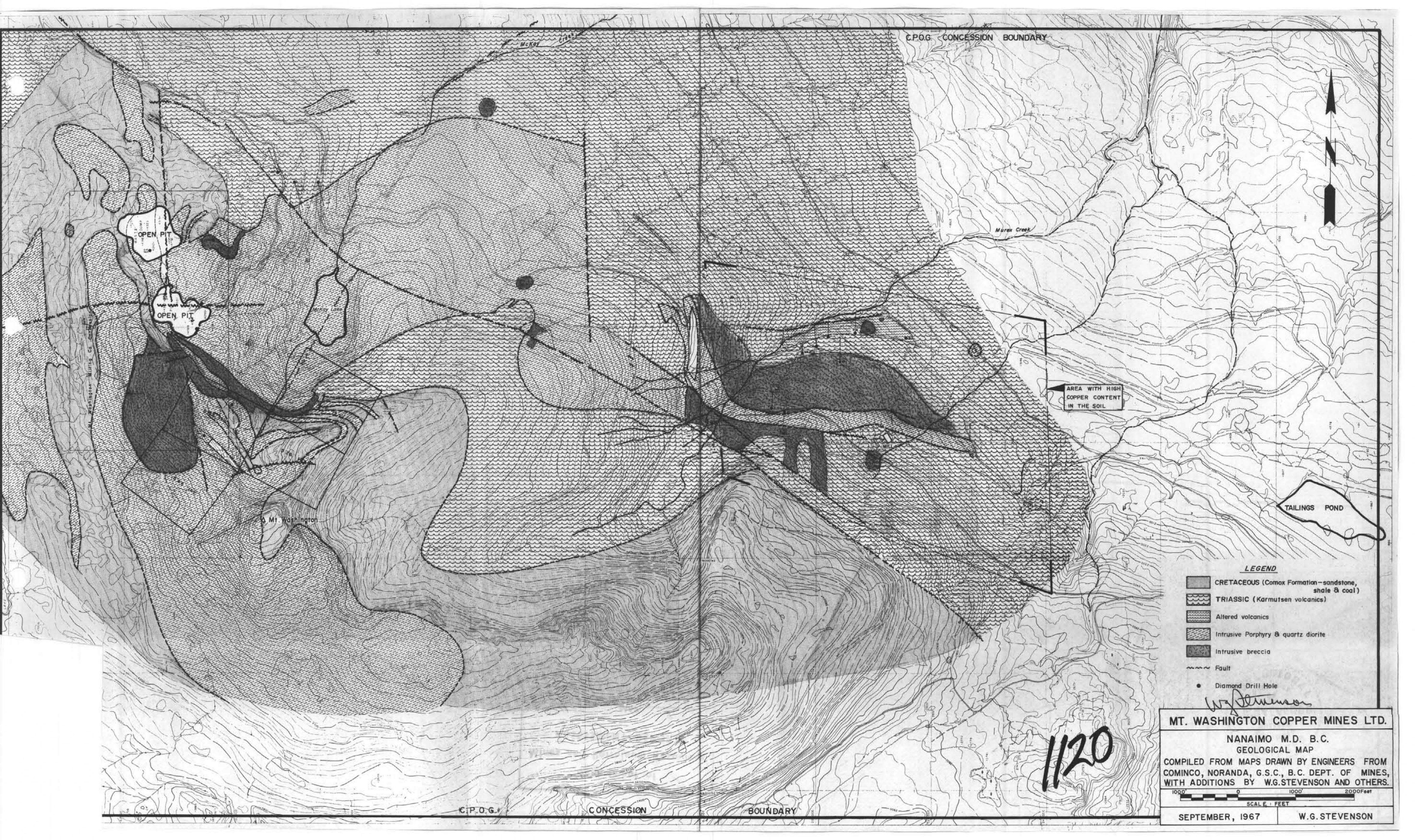


L. Strickler

A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

★°

Sub-mining Recorder



C.P.O.G. CONCESSION BOUNDARY



OPEN PIT

OPEN PIT

AREA WITH HIGH COPPER CONTENT IN THE SOIL

TAILINGS POND

Mt. Washington

LEGEND

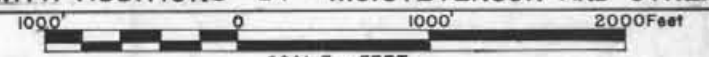
- CRETACEOUS (Comox Formation—sandstone, shale & coal)
- TRIASSIC (Karmutsen volcanics)
- Altered volcanics
- Intrusive Porphyry & quartz diorite
- Intrusive breccia
- Fault
- Diamond Drill Hole

W.G. Stevenson

MT. WASHINGTON COPPER MINES LTD.

NANAIMO M.D. B.C.
GEOLOGICAL MAP

COMPILED FROM MAPS DRAWN BY ENGINEERS FROM COMINCO, NORANDA, G.S.C., B.C. DEPT. OF MINES, WITH ADDITIONS BY W.G. STEVENSON AND OTHERS.



SCALE - FEET

SEPTEMBER, 1967

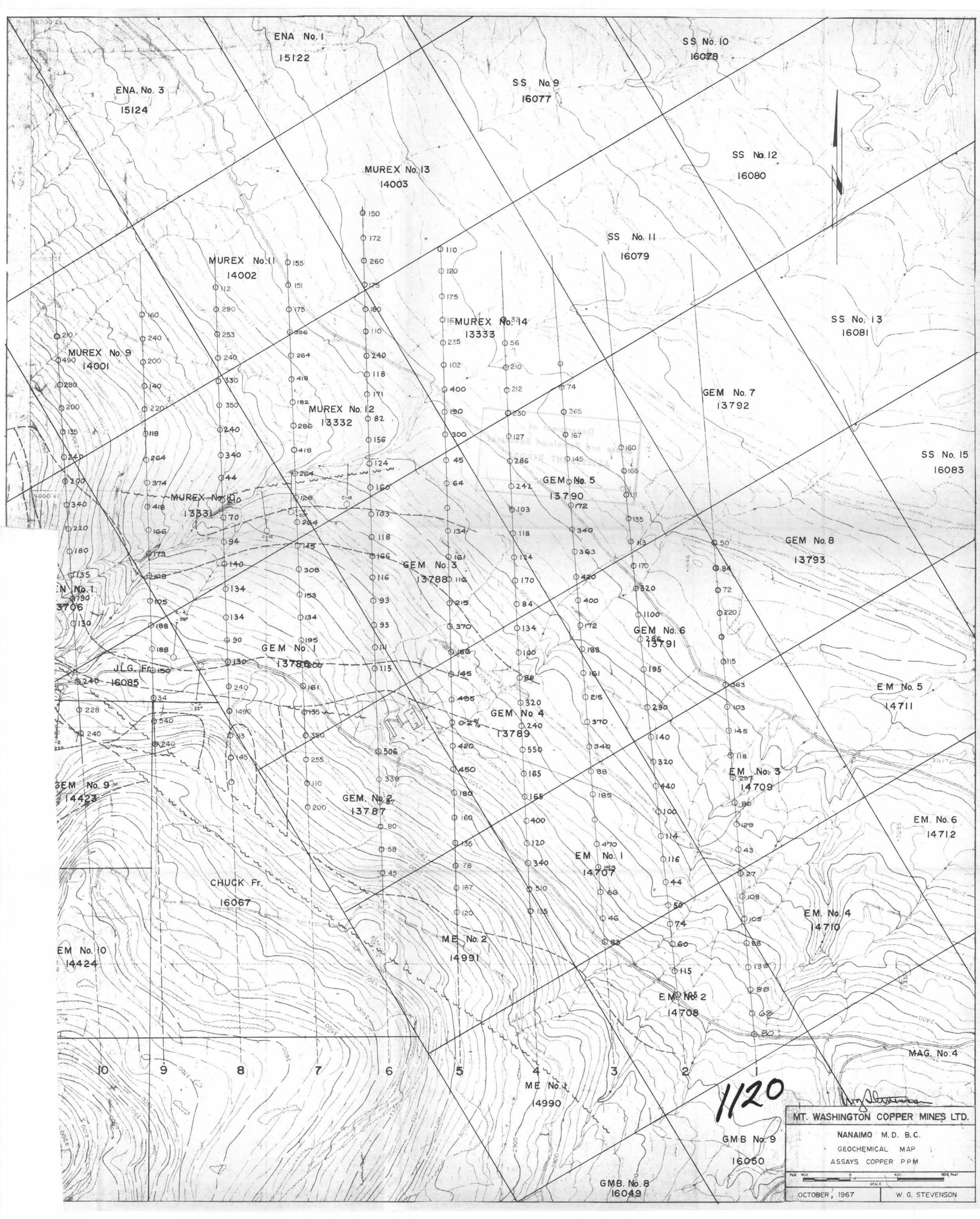
W.G. STEVENSON

1120

C.P.O.G.

CONCESSION

BOUNDARY



ENA No. 1
15122

SS No. 10
16078

ENA No. 3
15124

SS No. 9
16077

SS No. 12
16080

MUREX No. 13
14003

SS No. 11
16079

MUREX No. 11
14002

SS No. 13
16081

MUREX No. 14
13333

MUREX No. 9
14001

GEM No. 7
13792

SS No. 15
16083

MUREX No. 12
13332

GEM No. 5
13790

GEM No. 8
13793

MUREX No. 10
13331

GEM No. 3
13788

EN No. 1
3706

GEM No. 1
13786

GEM No. 6
13791

EM No. 5
14711

J.L.G. Fr.
16085

GEM No. 4
13789

EM No. 9
14423

GEM No. 2
13787

EM No. 3
14709

EM No. 6
14712

CHUCK Fr.
16067

EM No. 1
14707

EM No. 4
14710

EM No. 10
14424

ME No. 2
14991

EM No. 2
14708

MAG No. 4

ME No. 1
14990

1120

GMB No. 9
16050

GMB No. 8
16049

MT. WASHINGTON COPPER MINES LTD.

NANAIMO M.D. B.C.
GEOCHEMICAL MAP
ASSAYS COPPER PPM

Scale: 1 inch = 400 feet

OCTOBER, 1967 W. G. STEVENSON