GEOCHEMICAL REPORT on the DEER 27 and 28 mineral claims in the Trail Creek M.D.

49° 20' North- 118° 01 West 82E/8E

by H. Veerman, P. Eng.

Owners : H. Veerman and W.G. Botel

Work done on August 14 and 15, 1972

4236

GEOCHEMICAL REPORT

on the

DEER 27 and DEER 28 MINERAL CLAIMS

located

30 Miles west of Castlegar, B.C.
at the headwaters of Shield Creek

in the

TRAIL CREEK MINING DIVISION

49°20' North - 118°01 West

March 1973

H. Veerman, P.Eng

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INTRODUCTION

A soil survey and a bio-geochemical survey had been carried out earlier over the Deer 27 and Deer 28 claims.
Difficulties in correlating the results of these surveys made it necessary to analyse the soil profile in more detail to explain comparatively high values obtained in the tree samples.
A pit with dimensions of roughly 4x4 feet was dug to apparent bedrock at a depth of 5 feet. The soil profile was studied in detail, the rocks were studied and described, and new soil samples were taken at 6 inch vertical intervals from the walls.
The samples were assayed for molybdenum and copper, with one sample (NO 16277) analyzed for gold and silver as well as for molybdenum and copper.

The results are described in this report.

LOCATION, ACCESS etc.

The Deer 27 and 28 mineral claims are located about 30 miles west of Castlegar, B.C. in the Trail Creek Mining Division.The claims are at the headwaters of Shield Creek, with the initial post at a distance of about 4500 feet southwest of the top of Shield Mountain.
Exept for a slight depression formed by Shield Creek the area is plateau like and gently rolling.

Access to the claims is by logging road and B.C. FOrest Service maintained access road from the Christina Lake-Castlegar highway just east of the summit.
The claims are at an elevation of 5000 feet. The area is hot and dry during the summer months, and snow covered from some time in October till May. Winter snowfall is in the order of 6-10 feet total.

The whole area was burned over many years ago, and very little in the way of heavy timber remains. A thin layer of ash directly beneath the organic layer may be found in many places on and around the claim area. Second growth pine and spruce have reached a height of about 30 feet, and it is from these trees that the bio-chemical samples were taken.

GEOLOGY

The area is underlain by a quartz monzonite of Coryell (Tertiary) age, with locally porphyritic phases and brecciated areas.
Only a few outcrops were found on the claims. These showed a quartz monzonite fragmental rock that is possibly an intrusive brecia

GEOCHEMISTRY

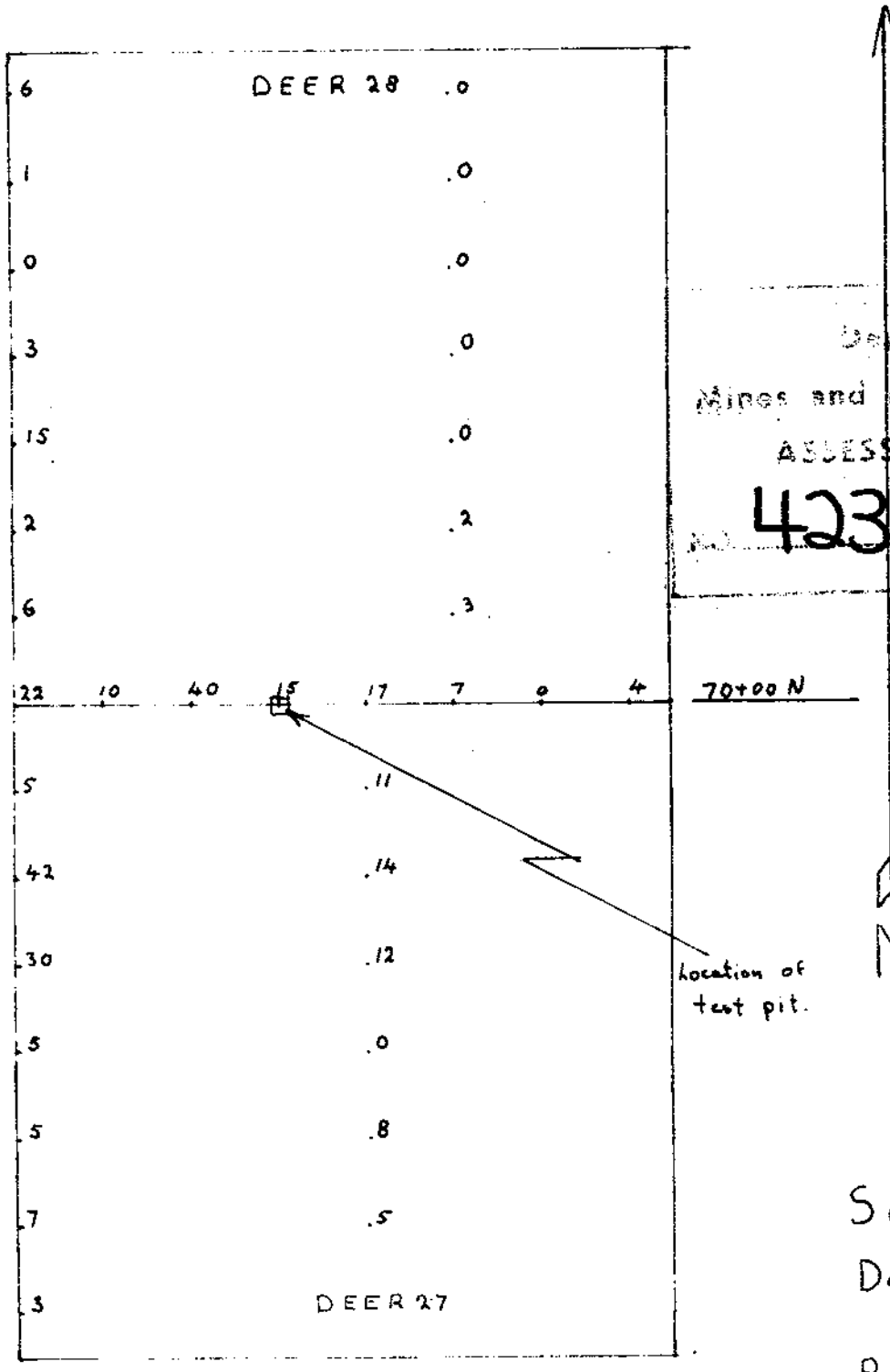
Some soil samples had been taken earlier on the claims, showing moderate but anomalous molybdenum values. The soil samples were taken from the "B" horizon, at a general depth of between 6 and 12 inches.
A subsequent program of sampling last year's growth from the pine, spruce and balsam and spruce trees on the claims showed a molybdenum anomaly that was much stronger than the soil survey anomaly.
To test the validity of the earlier results a test pit was dug down to bedrock at the location indicated on the sketches.

TEST PIT

The pit was dug at the grid location 70+00 North - 106+00 East.
The dimensions of the pit are about four feet square and five feet deep, necessitating the removal of about three cubic yards of overburden.

All material from the pit was closely examined for determination of grain size, rock type and sulphide content.

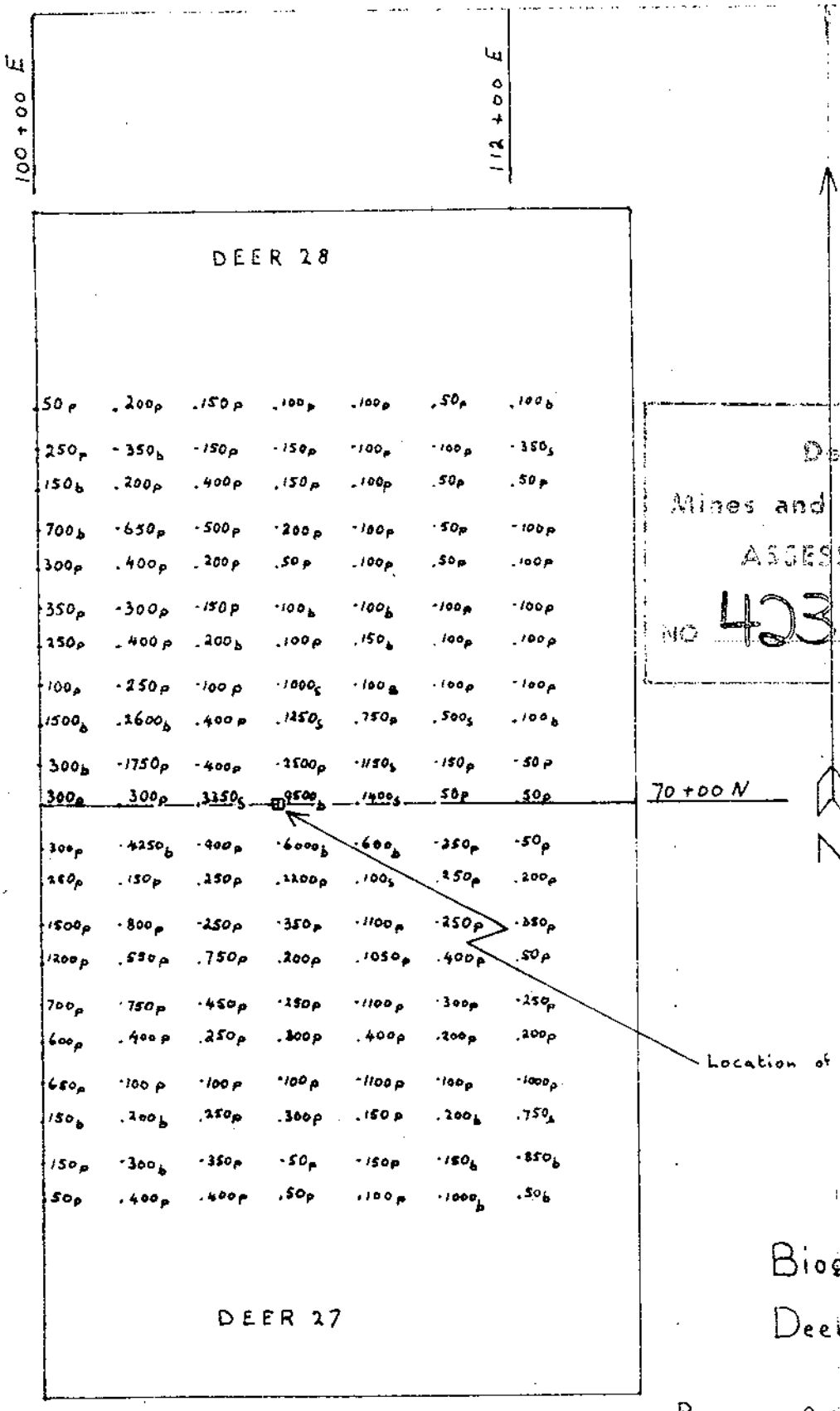
A detailed description of the different horizons encountered is given on the next page.



Soil Survey
Deer Park Claims

Parts per Million Mo

scale 1" = 400 ft



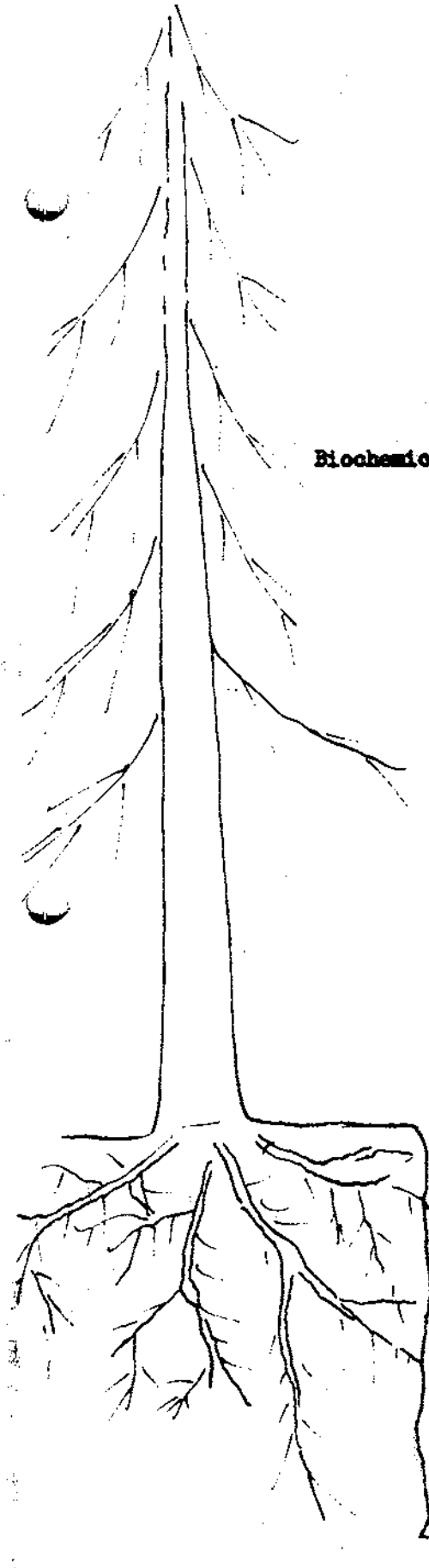
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO 4236 MAP #2

Biogeochemistry
Deer Park Claims

Parts per Billion Mo in second year twigs.
Scale 1" = 400 feet.

p = pine
s = spruce
b = balsam

Depth below surface.	soil type	Assay for Mo, Cu (parts per million)	
0 - 4 inches	Organic material, needles, twigs, moss.		
4 - 6	White ash, very fine, probably resulting from forest fire 30-40 years ago.	8	16
6 -12	Fine orange sandy material with many 4-6 inch angular rocks consisting of quartz monzonite porphyry and quartz monzonite breccia	61	30
12-18	Orange to brown fine sand with fewer rocks of same composition as above.	136	44
18-24	Top 4 inches consists of same material as above, but few rocks. Grading quickly into greyish-brown silt at bottom.	165	48
24-30	Greyish-brown fine silt layer without any large rock fragments. At the bottom of this silt layer a rusty oxidized soil layer with some organic remnants possibly represents an old surface, which was later covered with the silt.	128	48
30-36	Orange-brown sandy material; oxidized. Angular rocks 4-8 inches consisting of quartz monzonite breccia and quartz monzonite porphyry; pyrite.	1000	183
36-42	Same as above, but rock fragments somewhat smaller and oxidized, containing pyrite and traces molybdenite.	1100	194
42-48	Black-grey sandy clay with 1 inch black horizon at 45-46", possibly derived from organic material. Large tree roots do not penetrate below this horizon, although small ones may go farther down.	430	82
48-54	Brownish-grey sand with broken, angular rock fragments up to 8" in size. Quartz monzonite porphyry & breccia.	750	140
54-60	Brownish sand with semi-rounded boulders and gravel-like material.	960	212
60	Probable bedrock, consisting of quartz monzonite breccia with pyrite.		



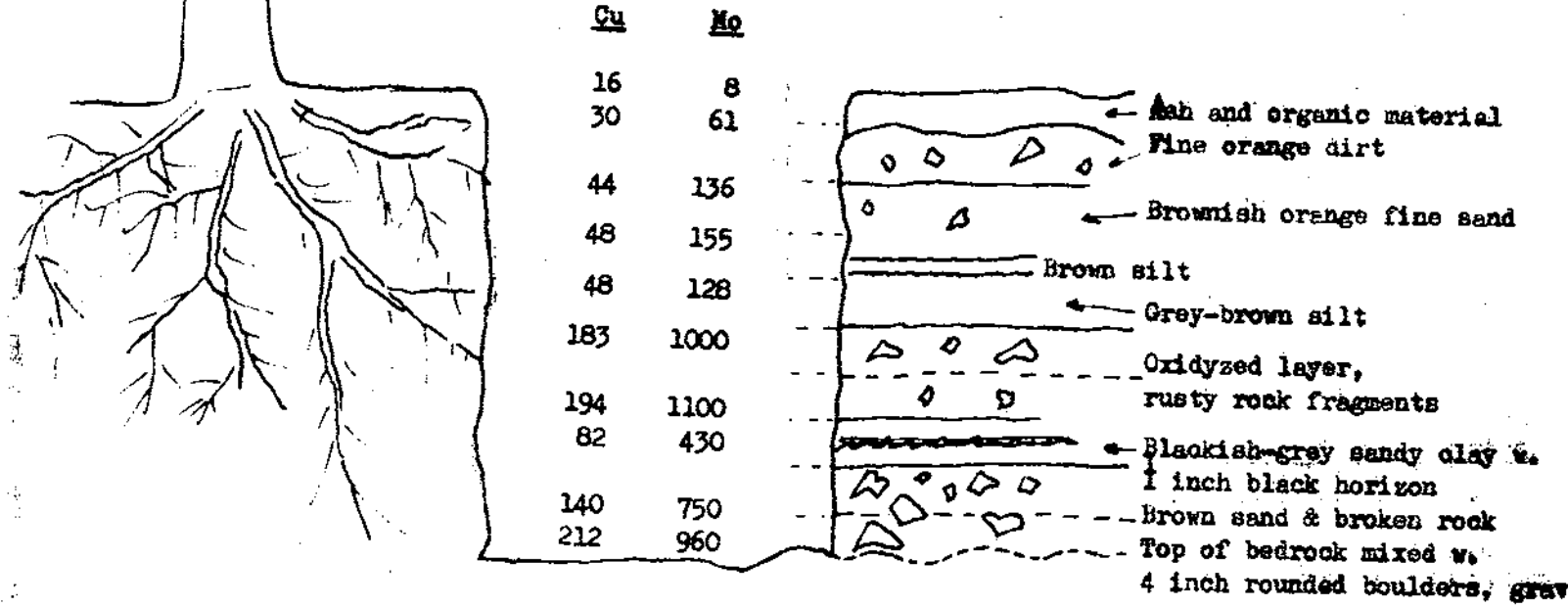
DEER PARK PROPERTY

Biochemical samples from trees at this station ran 9500 parts per billion Mo

SOIL PROFILE TEST PIT at 70N-106 E

Values in parts per million.

Scale 1"=2 feet approx.



DISCUSSION of RESULTS

1. Below the present surface a possible 2 additional old surfaces may be present, as indicated by the silt layers and organic material present at 36" and at 46" depth.
2. The rock fragments found in the pit have the same composition as the bedrock in the immediate area. The material did not travel very far.
3. The material on the immediate top of bedrock is slightly rounded, possibly through the effect of old wheathering. Transportation by glaciers or water does not appear likely as the composition is similar to bedrock and no silt or clay is present.
4. The highest metal values are found below the first silt layer at 36" depth. This layer, as well as the one at 46" appear to act as a barrier to metal transfer.
5. Sampling of the "B" horizon returned values of 61 p.p.m. molybdenum and 30 p.p.m. copper. The values below the first silt horizon go up sharply to 1000 p.p.m. molybdenum and 183 p.p.m. copper.
   The treetroots penetrate to at least this depth, and the very high molybdenum values in the bio-geochemical samples reflect this fact.

CONCLUSIONS

Correlation of the results of shallow soil sampling and tree twig sampling is not always possible because of the fact that the tree roots sample deeper soil layers than the "B" horizon which is commonly sampled in soil surveys.

Large increases (and possibly decreases) in metal values occur even in a relatively shallow soil profile of only 5 feet depth, which should be kept in mind when interpreting the results of a soil survey in this area and possibly other areas.

H. Vearman, P. Eng.

March 1973

Dell Messays from Dear Park.

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CERTIFICATE NO. 21675
INVOICE NO. 7921
RECEIVED August 21/72
ANALYSED August 22/72

TO: West Coast Mining & Exploration Ltd.,
205 - 122 E. 14th St.,
North Vancouver, B.C.

ATTN:

SAMPLE NO.:	% Molybdenum
HB 16273	0.10
16274	0.11
16276	0.075
HB 16277	0.096

CTA MEMBER CANADIAN TESTING ASSOCIATION

P. C. Woodley

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

Van Tank Jack Pot

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 18838
INVOICE NO. 7943
DATE RECEIVED August 16/72
DATE ANALYSED August 24/72

TO: West Coast Mining & Exploration Ltd.,
205 - 122 E. 14th St.,
North Vancouver, B.C.

ATTN: Mr.H.Veerman

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver	PPB Gold
HV 16268	16	8		
16269	30	61		
16270	44	136		
16271	48	165		
16272	48	128		
16273	183	> 500		
16274	194	> 500		
16275	82	430		
16276	140	> 500		
16277	212	> 500	< 0.5	630
HV 16278	70	100		

CTA MEMBER CANADIAN TESTING ASSOCIATION

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West Coast Mining & Exploration Ltd.,

205 - 122 E. 14th St.,

North Vancouver, B.C.

DATE August 24/72

INVOICE NO. 7943

CERTIFICATE NO. 18838

ATTN: Mr.H.Veerman

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
10	Analyzed for Copper & Molybdenum @ $1.35	$13.50	
1	Analyzed for Copper, Molybdenum, Silver & Gold @ $4.20	4.20	
10	Prepared @ $0.20	2.00	
1	Prepared @ $0.75	.75	
		$20.45	
	Less 10%	2.04	
			$18.41

TERMS — NET 30 DAYS

INVOICE

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West Coast Mining & Exploration Ltd.,

205 - 122 E. 14th St.,

North Vancouver, B.C.

DATE August 22/72

INVOICE NO. 7921

CERTIFICATE NO. 21675

ATTN: Mr. H. Veerman

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
4	Assayed for Molybdenum @ $4.00	$16.00	
			$16.00

TERMS — NET 30 DAYS