2952

GEOPHYSICAL - GEOCHEMICAL REPORT

on the

PINTO GROUP of CLAIMS

located

on TENDERLOIN MOUNTAIN in the FRANKLIN CAMP AREA

49° 35' North - 118° 20' West 82 E / 9W

in the

GREENWOOD MINING DIVISION

March 1971

H. Veerman, P. Eng.

TABLE OF CONTENTS

INTRODUCTION

Regional stream silt sampling in the fall of 1969 indicated a copper anomaly in Pinto Creek on the west slope of Tenderloin Mountain in the old Franklin Camp area , some 35 miles North of Grand Forks, B.C.
Follow-up surveys were carried out in the winter, and a total of 46 claims were staked in April and May of 1970.
Soils sampling and electro-magnetic surveys were carried out during June and July, giving reasonable coverage over about 18 of the 46 claims.

LOCATION, ACCESS, etc.

The Pinto Property is located about 200 miles east of Vancouver and 35 miles north of Grand Forks, B.C., a small town close to the U.S. border.
The claims are located in a northerly trending mountain belt called the "Monashee Range".
Access to the property is by road from Grand Forks following the "North Fork Road". This road becomes progressively narrower and finally ends in the old Franklin Camp, an abandoned mining camp dating back to the turn of the century.
From Franklin Camp a four wheel drive road leads north as far as Gloucester Creek. The Pinto Property is within two miles of the end of the road, and covers the slopes of Tenderloin Mountain to the north.
The coordinates of the South West corner of the property are Lat. $49^{\circ}35'$, Long. $118^{\circ}20'$.

The claims cover elevations from 3500 to 5400 feet, the latter being the summit of Tenderloin Mountain. Precipitous slopes are common in many parts of the property, (Tenderloin Mountain is the home of mountain goats in the area), and outcrop is abundant at higher elevations. The lower slopes are covered with dense second growth tamarack and pine, with only a few trees remaining of the original forest that covered the area before a big fire about 60 years ago.

The climate is hot and dry in the summer time, and snowfall is heavy in winter, and varies from 10 to 15 feet. By mid-June most of the snow has melted. Total precipitation in the area has been estimated by C.W. Drysdale to be in the order of 30 inches.

HISTORY

The area covered by the claims was undoubtedly well prospected during the turn of the century, when the Franklin Camp was booming and a large number of claims were staked. Old shafts, tunnels and prospect pits probably also date back to this period. Two old adits found on the propert have large fir trees growing on the dump, indicating some considerable time lapse since the last activities.
Exept for a reference to the old Pinto claim at the junction of Gloucester Creek and Pinto Creek and about a half mile south of the boundary of our present claim group,no information concerning mining activities in the area could be found in the old records.

Franklin Camp itself went through an active period from about 1900 to 1910, with a revival in the late twenties and early thirties when a few shipments of gold ore were made. The early history of the camp is described in detail by Charles W. Drysdale in "Memoir 56, Geological Survey of Canada, 1915". entitled "Franklin Mining Camp, British Columbia".

In 1968 Newmont Mining optioned and acquired most of the ground comprisin g the old camp, and proceeded with an extensive exploration program, including diamond drilling.
The results must have been below expectations because little or no work was done in 1970.

CLAIMS

West Coast Mining & Exploration is the owner of 46 claims, all registered in the name of D.L. Moore.
The claims are Loin 1-6, Loin 11-34, Loin 39-51 and Loin 57 and 58.
The claims were recorded on April 20, 1970 and May 15, 1970.

GEOLOGY

The area under consideration is covered by the "Preliminary Geological Map, Kettle River, East Half, by H.W. Little, Geological Survey of Canada" 1957. Earlier work was done by Drysdale, G.S.C. Memoir 56, 1915.

Intrusive rock of grano-dioritic composition occupies the northerly and westerly parts of the property. This has been mapped as part of the Nelson Intrusions of Lower Cretaceous age. The easterly part, which includes the top of Tenderloin Mountain, is underlain by the younger Kettle River Formation and the Phoenix Volcanic Group, consisting of andesites, rhyolites and dacite flows and interbedded sediments.

A northerly trending fault cuts through the center of the property and may have some bearing on the localization of copper mineralization. The old workings are close to the faultzone and most of the visible evidence for mineralization such as pyrite in fractures, alteration etc. appears to be close to the fault. The fault runs roughly along the grid lineat 100 E. Copper mineralization in the form of chalcopyrite appears to be related to shear zones within the intrusive.

Zinc mineralization may be present in the northwesterly corner of the property, as indicated by high soil assays and a zinc anomaly in a small creek to the west of Pinto Creek. The area has not been prospected.

WORK DONE IN 1970

At the time the second group of claims were staked in the beginning of May there was still a large amount of snow on the ground.

The program of Geophysics and Geochemistry was started near the end of May when little snow remained, and especially the westerly slopes were clear.

A three men camp was set up near Pinto Creek and about one hour's walk from the end of the road, at 3500 feet elevation.

WORK DONE IN 1970 (cont).

An East-West base line was established at the Initial Post of the Loin 3 and 4 claims, and grid lines were run North-South to be able to use the transmitter near Seattle for E.M. 16 work.

The first part of the program lasted about three weeks. At the end of June some additional work was done, expanding on the grid in easterly and westerly direction. This phase lasted 10 days. E.M. readings only were taken during the second phase.

GEOCHEMISTRY- Soil Survey.

Samples were taken along grid lines at 100 feet intervals. The spacing between grid lines is either 200 feet or 400 feet. Close to 900 samples were collected during the first phase of the program only. A few lines were assayed for copper immediately after the samples arrived in Vancouver. The remainder were stored and finally assayed in the fall for four elements, namely copper, molybdenum, zinc and silver.

The copper values and zinc values are shown on the maps attached to this report. Significantly high molybdenum or silver values were not found in any of the samples, and for that reason have not been put on the map. A few silver values running higher than 0.5 p.p.m. silver have been plotted on the "Soil Survey- Zinc" map.

Geophysics - Electro-Magnetic Survey.

A Ronka E.M. 16 Survey was run in conjunction with the soil survey. The second phase of the program consisted of E.M. work only.

A total of 1200 readings were taken on the property, covering about 18 claims forming the central and most interesting part of the group.

The transmitter used during the survey was station N.P.G. near Seattle, Wash.

The primary [redacted] readings were marked on a map for permanent reference.

A second map was prepared from the filtered results of the primary readings. The filter used can be expressed as a moving filter according to the formula (a+b)-(c+d). The resultant is marked midway between the third and the fourth reading.

Electro-Magnetic Survey (cont).
Topographic or regional effects are smoothed out applying this filter, but cross-overs, indicating conductors, are enhanced. The results may be contoured for easier interpretation, with high positives indicating possible conductors.

DISCUSSION OF RESULTS

The soil sampling survey indicates a number of anomalous copper values in the area centered on 100 E-85 N. The old workings are located in the same general area which is underlain by grano-diorite.
Shear zones with copper mineralization are probably responsible for the anomalies mentioned. The E.M. survey does not show any significant conductors in this area, diminishing the expectation for a commercial orebody.

Isolated E.M. anomalies slightly east of the soil highs, at 80 N- 108 E may be due to a fault running in this direction. Some topographic effect is thought to influence the readings here as well. The lack of adequate soil sample coverage in this area makes it necessary to postpone a final conclusion.

A strong E.M. anomaly is indicated but not yet properly outlined at 90 N - 124 E. No soil sample coverage is available. Topography may play a significant role in this E.M. anomaly, as it is close to the cliffs on the North side of Tenderloin Mountain.

A weak zinc anomaly is indicated at the extreme N.W. of the map grid.
The E.M. picture is unclear, but no major anomaly is indicated.

CONCLUSIONS

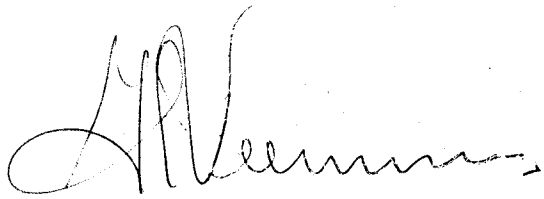
No major target area has developed out of the work done on the Pinto Property in 1970.

Several small areas of interest have been indicated in either the soil survey or the E.M. survey. Additional coverage is desirable.

Prospecting and geological studies will be necessary to better understand the anomalies indicated.

RECOMMENDATIONS

A one week program of prospecting, mapping, fill-in soil sampling and a few E.M. lines will be sufficient to make a definite decision with regard to the Pinto Property.



December 1970

H. Veerman, P. Eng.

APPENDIX I

STATEMENT of QUALIFICATIONS of GEOPHYSICAL/GEOCHEMICAL OPERATORS.

MURRAY CAMROUX

While going to the University of British Columbia M. Camroux worked as a geophysical/geochemical operator during summer vacations.

1969 - West Coast Mining & Exploration. Ronka E.M. 16 and Sabre Mark II Magnetometer. Soil sampler.
1970 - West Coast Mining & Exploration. Ronka EM. 16 and Sabre Mark II Magnetometer. Soil sampler.

FLEMMING EINFELDT

WHile studying forestry at the University of British Columbia F. Einfeldt worked as a cruiser and field assistant during the summer.

1966 - Compass man with B.C. Forest Service.
1967 - Cruiser.
1968 - Student Assistant, Federal Dpt. of Forestry, Alberta.
1969-1970 Research in Forest Hydrology, U.B.C.
1970- West Coast Mining & Exploration. Ronka E.M. 16 and soil sampler.

R.S. POWELL

While studying at the B.C. Institute of Technology R.S. Powell worked as a geophysical/geochemical operator during the summer.

1969 - West Coast Mining & Exploration. Ronka E.M. 16 and Sabre Mark II magnetometer. Soil sampler.
1970 - West Coast Mining & Exploration. Ronka E.M. 16 and soil sampler.

M. WEBB

While a student at the University of British Columbia M. Webb worked in exploration during the summer.

1968 - Rio Tinto Co. Geochemistry and geophysics.
1969 - Agilis Exploration. Geochemistry.
1970 - West Coast Mining & Exploration. Ronka E.M. 16 and soil sampler.

GEOCHEMISTRY. SOIL SAMPLING PROCEDURE.

Soil samples were taken at regular intervals of 100 feet along the lines and at the same stations that were used for the E.M. 16 survey, as indicated on the maps.

Samples were taken from shallow holes dug with a short handle mattock, a short handle spade or both.
The samples were taken from the "B" horizon were a proper soil profile could be identified. Where this was impossible the samples were taken from material directly below the humus layer. Where the cover was very thin the material directly above bedrock was used for a sample.

The material was placed in a 3½ by 9½ inch brown paper waterproof envelope which was marked with a sample number on the outside.
A numbered paper sample tag was placed inside the envelope at the same time for identification at the laboratory.

The samples were taken to CHEMEX LABS LTD. at 212 Brooksbank Avenue in North Vancouver, B.C.

A description of Chemex procedures follows on the next pages.

CHEMEX LABS LTD. 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. CANADA • 985-0648

March 26, 1971.

Mr. H. Veerman
West Coast Mining & Exploration Ltd.,
205 - 122 E. 14th St.,
North Vancouver, B. C.

Dear Heinz:

Enclosed is a copy of our geochemical preparation and analytical procedures to be used for assessment purposes. The methods described are copper, molybdenum, zinc and silver.

Should you require further information on additional elements, we will be glad to provide the appropriate details.

Sincerely,

Bruce W. Brown

BWB/gr

APPENDIX II

GEOCHEMISTRY, SAMPLING and ASSAYING PROCEDURES

West Coast Mining & Exploration Ltd.

GEOCHEMICAL PREPARATION AND ANALYTICAL PROCEDURES

1. Geochemical samples (soils, silts) are dried at $80^{\circ}C$ for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.

2. A 0.50 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% $HClO_4$ and concentrated HNO_3. Digestion time = 2 - 3 hours.

3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.

4. Detection limits using Techtron A.A.5 atomic absorption unit.
   Copper - 0.5 ppm
   Molybdenum - 1 ppm
   Zinc - 0.5 ppm
   Silver - 0.2 ppm

March 26, 1971.

APPENDIX III

RONKA E.M. 16, DETAILED INFORMATION

DEEP-PENETRATING ELECTROMAGNETIC DETECTOR

RONKA EM16

The EM16 is a new basic electromagnetic tool using homogeneous horizontal primary fields (15-25 kc).

The real- and quadrature-vertical fields are measured.

Fairly high frequency is also good for weaker conductors.

Horizontal primary field is not influenced by flat horizontal overburden.

One man can now survey faster and deeper than a large crew of men with older equipment.

Field experience has proven the EM16 to be very fast, rugged, and practical.

The equipment is designed by Vaino Ronka and built by Geonics Limited.

EM16 offers you the best in easy interpretation; faster, more effective coverage; and simplicity and ruggedness of instrumentation.

GEONICS LIMITED

TYPE **EM16**

SPECIFICATIONS

Primary field:	Horizontal from any selected VLF-transmitting station.
Frequency range:	15-25 kc.
Station selection:	By plug-in units. + a switch for 2 stations
Measured fields:	Vertical field, in-phase and quadrature components.
Accuracy of readings:	±1%.
Range of measurements:	In-phase ±150% or ±90°, quadrature ±~~20%~~ 40%
Output readout:	Null-detection by an earphone, real and quadrature components from mechanical dials.
Batteries:	6, size AA penlight cells. Life about 200 hours.
Size:	16 x 5.5 x 3.5 in. (42 x 14 x 12 cm).
Weight:	2.4 lbs. (1.1 kg).
Accessories:	1 earphone and cord. 1 carrying bag. 1 set of batteries. 1 Manual of Operation. 3 plug-in units for station selection —additional optional units available.
Price:	$2220.00 F.o.b. Toronto. Fed. sales tax in price. Extra plug-in units, $60.00 each.

Specifications and price subject to change without notice.

Designers and Manufacturers of Geophysical Instruments
2 Thorncliffe Park Drive, Toronto 17, Ontario. (416) 425-1821

OPERATING INSTRUCTIONS

1. Principle of Operation

The VLF-radio stations operating for communications with submarines have a vertical antenna. The antenna current is thus vertical, creating a concentric horizontal magnetic field around them. When these magnetic fields meet conductive bodies in the ground, there will be secondary fields radiating from these bodies. This equipment measures the vertical components of these secondary fields.

The EM16 is simply a sensitive receiver covering the frequency band of the new VLF-transmitting stations, with means of measuring the vertical field components.

The receiver has two inputs with two receiving coils built into the instrument. One coil has normally vertical axis and the other is horizontal.

The signal from one of the coils (vertical axis) is first minimized by tilting the coil. The tilt-angle is calibrated in percentages. The remaining signal in this coil is finally balanced out by a measured percentage of a signal from the other coil, after being shifted by 90°. The axis of this coil is at right angles to the axis of the first coil. This coil is kept normally parallel to the primary field.

Thus, if the secondary signals are small compared to the primary horizontal field, the mechanical tilt-angle is an accurate measure of the vertical real-component, and the compensation $\pi/2$-signal from the horizontal coil is a measure of the quadrature vertical signal.

2. Selection of the Station

The selection of the proper transmitting station is done by a plug-in unit inside the receiver. The equipment takes two selector-units simultaneously. A switch is provided for quick switching between these two selected stations.

The magnetic field lines from the station are always at right angles to the direction to the station. Always select a station which gives the field approximately at right angles to the main strike of the ore bodies or geological structure of the area you are presently working on. To select the stations, open first the cover on top of the instrument and pull out the plug-in unit on the side of the instrument frame and insert the proper plugs. Then close the cover again.

Here is the list and locations of some of the stations useful in Canada and United States.

Station	NAA:	Location,	Cutler, Maine.	Freq.	17.8 kc.
"	NSS:	"	Annapolis, Maryland.	"	21.4 kc.
"	NPG:	"	Seattle, Washington.	"	18.6 kc.
"	WWVL:	"	Fort Collins, Colorado.	"	20 kc.
For European use	GBR:		Rugby, England.	"	16 kc.

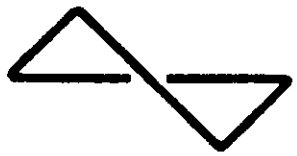
The direction of the survey lines should be selected approximately along the lines of the primary magnetic field; at right angles to the direction to the station being used. Before starting the survey, the instrument can be used to orient oneself in that respect. By turning the instrument sideways, the signal is minimum when the instrument is pointing towards the station thus indicating that the magnetic field is at right angles to the receiving coil inside the handle.

3. Taking a Reading

To take a reading, first orient the reference coil on the lower end of the handle along the magnetic lines. Rock the instrument back and forth for minimum sound intensity in the headphone. Use the volume control to set the sound level for comfortable listening. Then use your left hand to adjust the quadrature component dial on the front left corner of the instrument to further minimize the sound. After finding the minimum signal strength on both adjustments, read the inclinometer by looking into the small lens. Also mark down the quadrature reading on the front edge of the instrument.

While traveling to the next location you can, if you wish, keep the instrument in operating position. If abrupt changes in the position occurs while traveling, you might take extra stations to accurately pinpoint the details of the anomaly.

The dials inside the inclinometer are calibrated plus and minus percentages, and in degrees. Either ones can be used. If the instrument is facing 180° from the original direction of travel, the polarities of the readings will be reversed. When plotting the readings, care should be taken to correct the polarities. The important thing is to know the actual physical tilt-angle of the instrument. The lower end of the handle will, as a rule, point towards the conductor. The instrument is so calibrated that when approaching the conductor, the angles are positive in the in-phase component.



4. Plotting the Results

For easy interpretation of the results, it is good practice to plot the actual curves on the paper, using suitable scales for the percentage readings as well as horizontal distances over the ground.

5. Interpretation

The determination of depth can be done with fair accuracy with this instrument by noticing the horizontal distance between the maximum positive and negative readings. This should be the same as the actual depth from the ground surface to the center of the effective area of the conductive body. This point is not the center of the actual body, but somewhat closer to the upper edge.

Theoretically, for <u>spherical</u> conductor the depth

$h = \Delta x$ where Δx is the horizontal distance between the max. points of the vertical field H_z.

The radius $a = 1.3\, h \sqrt[3]{H_z\,(max.)}$

For <u>cylindrical</u> body

$h = 0.86\, \Delta x$

The radius $a = 1.22\, h \sqrt{H_z\,(max.)}$

In these equations $H_z = 1$ means 100% on the equpment dial.

The instrument is calibrated also in degrees. H_z equals the tangent of the angle.

The determination of depth is generally more reliable than the estimation of the actual dimension, a. The real component of H_z which we should use, decreases proportionally for a poorer conductor.

The Δx, however, is fairly well a constant for given ideal shape of the ore so that the depth can be estimated with fair accuracy.

One can also draw some conclusions about the depth and shape of the upper edge of the conductor by observing the actual smaller details of the profile.

A vertical sheet type of conductor, if it comes close to the surface, gives a sharp cross-over of large amplitude and slow roll-off on both sides.

Horizontal sheet should give a single polarity tilt-angle on the edge of it, and again the opposite way on the other edge.

When looking at the plotted curves, one notices that two adjacent conductors may modify the shape of the anomalies for each one. In cases like this, one has to look for the steepest gradients of the vertical (plotted) field, rather than the actual zero-crossings.

As with any EM, the largest and best conductors give the highest ratio of in-phase to quadrature components.

However, in practice most of the ore bodies are composed of different individual sections, and therefore one cannot use the in-phase/quadrature ratio as the sole indicator of the conductivity-size factor.

Sometimes the quadrature-component shows a reversed polarity compared to the in-phase readings. This can be due to the conductive overburden on top of the area of deeper (better) conductor. The vertical secondary field penetrating through the overburden has negative quadrature component.

6. Servicing

Changing the batteries is done by removing the cover and changing the penlight batteries one by one. Please notice the polarities marked for each individual cell. To test the condition of the batteries, turn the instrument on, press the push-button on the front panel. There should be a whistling sound in the headphone if the batteries are in usable condition. If the sound is not heard, the battery voltage may be low.

It may be occasionally necessary to clean the contacts of the plug-in unit. For this, use a clean rag that is very slightly moistened with oil.

If any repairs are necessary we recommend that the instrument be shipped to Geonics Limited for a thorough checkup and testing with proper measuring instruments.

APPENDIX IV

GEOCHEMISTRY, ASSAY REPORTS

Arthur Range 17
Tenderloin

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

• CHEMISTS • GEOCHEMISTS • ANALYSTS • ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8593
INVOICE NO. 3015
DATE RECEIVED June 17/70
DATE ANALYSED June 19/70

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

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper		"H.V."
10675	24	100E - 101N	
10676	26	- 102N	
10677	178	100E - 103N	
10678	69	104N	
10679	40	105N	
10680	19	106N	
10681	20	107N	
10682	20	108N	
10683	32	109N	
10684	65	100E - 110N	
10685	32	111N	
10686	17	112N	
10690	17	116N	
10691	4	117N	
10692	7	118N	
10693	7	119N	
10694	16	120N	
10695	3	121N	
10696	7	122N	
10697	6	123N	
10698	6	124N	
10699	11	125N	
10700	4	126N	
13301	14	112E 113N	
13302	20	112N	
13303	25	111N	
13304	20	110N	
13305	25	109N	
13307	13	107N	
13308	13	106N	
13309	14	105N	
13310	69	112E - 104N	
13311	13	103N	
13312	11	102N	
13313	24	101N	
13314	8	100N	
13315	40	99N	
13316	25	98N	
13317	4	120E - 100N	
13318	14	101N	
Std. #22	54		

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NORTH VANCOUVER, B.C.
CANADA
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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8594
INVOICE NO. 3015
DATE RECEIVED June 17/70
DATE ANALYSED June 19/70

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

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper		"H,V."
13319	13	120E - 102N	
13320	11	103N	
13321	6	104N	
13322	4	105N	
13323	20	106N	
13324	236	120E - 107N	
13325	7	108N	
13326	10	109N	
13327	6	110N	
13328	14	111N	
13329	24	112N	
13330	19	113N	
13331	22	114N	
13332	50	120E - 115N	
13333	30	116N	
13334	10	117N	
13335	11	118N	
13336	7	119N	
13337	10	120N	
13338	8	121N	
13339	10	122N	
13340	38	123N	
13341	25	124N	
13342	14	125N	
13343	11	126N	
13344	11	127N	
13345	10	128N	
13346	14	129N	
13347	8	130N	
13348	10	116E - 130N	
13349	10	129N	
13350	10	128N	
13351	10	127N	
13352	8	126N	
13353	8	125N	
13354	13	124N	
13355	24	123N	
13356	3	122N	
13357	17	121N	
13358	17	120N	
Std. #22	52		

Certified by J. Brown

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CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8596
INVOICE NO. 3015
DATE RECEIVED June 17/70
DATE ANALYSED June 19/70

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

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper	"H.V."
14021	62	104E - 114N
14022	65	" - 113 N
14023	16	112 N
14024	19	111 N
14025	17	110 N
14026	13	109N
14027	34	108 N
14028	13	107N
14029	26	106 N
14030	163	108E - 103N
14031	52	104N
14032	25	103 N
14033	10	102 N
14034	10	101 N
14035	11	108E - 100N
14036	14	99N
14037	20	98N
14038	65	108E - 97 N
14039	43	96N
14040	17	95N
14041	19	94N
14042	13	93N
14043	19	92N
14044	54	108E - 91 N
14045	212	108E - 90N
14046	26	89N
14047	19	88N
14048	7	87N
14049	30	86N
14050	10	85N
14051	7	84N
14052	17	83N
14053	13	82N
14054	45	108E - 101N
14055	11	102N
14056	52	108E - 103N
14057	80	108E - 104N
14058	16	105 N
14059	42	106N
14060	17	107N
Std. #22	52	

Certified by

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8595
INVOICE NO. 3015
DATE RECEIVED June 17/70
DATE ANALYSED June 19/70

TO: West Coast Mining and Exploration,
205 = 122 E. 14th St.,
North Vancouver, B. C.

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper	"H.V."
13359	10	116E - 119N
13360	14	118N
13361	19	117N
13362	10	116N
13363	6	115N
13364	7	114N
13365	10	113N
13366	7	112N
13367	13	111N
13368	14	110N
13369	22	109N
13370	13	108N
13371	16	107N
13372	30	106N
13373	22	105N
13374	28	104N
13375	26	103N
13376	36	102N
13377	26	101N
13378	27	100N
14001	7	100E - 127N
14002	13	128N
14003	13	129N
14004	11	130N
14005	13	104E 130N
14006	6	129N
14007	10	128N
14008	10	127N
14009	7	126N
14010	10	125N
14011	6	124N
14012	22	123N
14013	6	122N
14014	6	121N
14015	7	120N
14016	8	119N
14017	13	118N
14018	30	117N
14019	32	116N
14020	13	115N
Std. #22	52	

Certified by A. J. Brown

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8597
INVOICE NO. 3015
DATE RECEIVED June 17/70
DATE ANALYSED June 19/70

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

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper	"H.V."
14061	8	108E - 108N
14062	7	109N
14063	3	110N
14064	22	111N
14065	32	112N
14066	14	113N
14067	14	114N
14068	33	115N
14069	13	116N
14070	16	117N
14071	8	118N
14072	10	119N
14073	11	120N
14074	6	121N
14075	4	122N
14076	6	123N
14077	7	124N
14078	8	125N
14079	8	126N
14080	11	127N
14081	13	128N
14082	6	129N
14083	4	130N
14084	6	112E - 130N
14085	6	129N
14086	6	128N
14087	6	127N
14088	6	126N
14089	3	125N
14090	6	124N
14091	10	123N
14092	4	122N
14093	13	121N
14094	7	120N
14095	10	119N
14096	45	118N
14097	10	117N
14098	19	116N
14099	22	115N
14100	13	114N
Std. #20	52	

Certified by D. Bruce

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12561

INVOICE NO. 4401

DATE RECEIVED Oct. 21/70

DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10201	18	0	117	< 0.5	109 N - 86 E
10202	52	0	107	< 0.5	108 N
1 0203	34	0	82	< 0.5	107 N
10204	12	0	46	< 0.5	106 N
10205	6	0	31	< 0.5	105 N
10206	40	0	95	< 0.5	104 N
10207	34	0	63	< 0.5	103 N
10208	26	0	46	< 0.5	102 N
10209	12	0	36	< 0.5	101 N - 86 E
10210	112	1	57	< 0.5	101 N - 88 E
10211	74	0	55	< 0.5	102 N "
10212	22	0	78	< 0.5	103 N
10213	54	0	63	< 0.5	104
10214	16	0	126	< 0.5	105
10215	16	0	145	< 0.5	106
10216	50	0	183	1.0	107
10217	21	0	123	0.5	108
10218	22	0	104	0.5	109
10219	78	0	133	0.5	110
10220	13	1	93	0.5	111
10221	14	1	78	0.5	112
10222	7	0	42	< 0.5	113
10223	21	0	53	< 0.5	114
10224	36	0	90	< 0.5	115
10225	8	0	101	< 0.5	116
10226	8	1	117	< 0.5	117
10227	10	0	78	< 0.5	118
10228	7	0	90	< 0.5	119
10229	8	0	76	< 0.5	120
10230	8	0	46	< 0.5	121
10231	8	0	62	< 0.5	122
10232	8	0	74	< 0.5	123
10233	8	0	58	< 0.5	124
10234	10	0	110	< 0.5	125
10235	5	0	38	< 0.5	126
10236	6	0	78	< 0.5	127
10237	8	0	71	< 0.5	128
10238	16	0	104	< 0.5	129
10239	6	0	101	< 0.5	130 N 88 E
10240	10	0	107	< 0.5	130 N - 90 E
Std. #23	63	16	110	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12562
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10241	13	0	87	< 0.5	129N - 90E
10242	12	0	130	< 0.5	128 N - 90E
10243	12	0	104	< 0.5	127
10244	6	0	90	< 0.5	126
10245	6	0	82	< 0.5	125
10246	4	0	44	< 0.5	124
10247	16	0	140	< 0.5	123
10248	13	0	55	< 0.5	122
10249	10	0	98	< 0.5	121
10250	14	0	145	< 0.5	120
10251	72	0	93	0.5	119
10252	7	0	107	< 0.5	118
10253	8	0	113	< 0.5	117
10254	14	0	101	< 0.5	116
10255	12	0	120	< 0.5	115
10256	24	0	140	< 0.5	114
10257	26	0	163	< 0.5	113
10258	12	0	93	< 0.5	112
10259	13	0	84	< 0.5	111
10260	12	0	90	< 0.5	110
10261	21	0	84	< 0.5	109
10262	13	0	46	< 0.5	108
10263	78	2	101	< 0.5	107
10264	21	0	101	< 0.5	106
10265	6	0	17	< 0.5	105
10266	31	1	133	< 0.5	104
10267	40	0	107	< 0.5	103
10268	38	0	76	< 0.5	102
10269	86	0	110	< 0.5	101 - 90E
10270	88	0	82	< 0.5	101 N - 92E
10271	8	0	55	< 0.5	102 N
10272	14	0	93	< 0.5	103
10273	41	0	44	< 0.5	104
10274	12	0	48	< 0.5	105
10275	44	1	62	< 0.5	106
10276	22	0	98	< 0.5	107
10277	6	0	38	< 0.5	108
10278	13	0	93	< 0.5	109
10279	31	0	82	< 0.5	110
10280	6	0	48	< 0.5	111 - 92E
Std. #23	63	16	110	0.5	

Certified by Jan W. Timms

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12564
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10321	24	0	174	< 0.5	82E - 129N
10322	16	0	640	< 0.5	128
10323	22	2	434	0.5	127
10324	10	0	135	< 0.5	126
10325	6	0	62	< 0.5	125
10326	10	0	139	< 0.5	124
10327	13	0	104	< 0.5	123
10328	12	0	104	< 0.5	122
10329	7	0	28	< 0.5	121
10330	12	0	100	< 0.5	120
10331	8	0	76	< 0.5	119
10332	4	0	42	< 0.5	118
10333	10	0	60	< 0.5	117
10334	6	0	34	< 0.5	116
10335	6	0	81	< 0.5	115
10336	7	0	100	< 0.5	114
10337	12	0	135	< 0.5	113
10338	13	0	116	< 0.5	112
10339	7	0	74	< 0.5	111
10340	14	0	66	< 0.5	110
10341	6	0	22	<0.5	109
10342	40	0	135	< 0.5	108
10343	4	0	38	< 0.5	107
10344	38	0	95	< 0.5	106
10345	21	0	135	< 0.5	105
10346	12	0	62	< 0.5	104
10347	7	0	30	< 0.5	103
10348	3	0	14	< 0.5	102
10349	8	0	30	< 0.5	82E - 101N
10350	20	0	78	< 0.5	84E - 101N
10351	22	0	123	< 0.5	102
10352	7	0	46	< 0.5	103
10353	22	0	163	< 0.5	104
10354	13	0	74	< 0.5	105
10355	4	0	36	< 0.5	106
10356	8	0	42	< 0.5	107
10357	13	0	104	< 0.5	108
10358	18	0	131	< 0.5	109
10359	12	0	76	< 0.5	110
10360	6	0	66	< 0.5	111N
STd. #23	64	16	110	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12563
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10281	24	0	62	< 0.5	92E - 112N
10282	54	0	86	< 0.5	113
10283	44	0	119	< 0.5	114
10284	76	0	98	< 0.5	115
10285	6	0	22	< 0.5	116
10286	46	0	68	0.5	117
10287	10	0	113	< 0.5	118
10288	12	0	56	< 0.5	119
10289	13	0	70	< 0.5	120
10290	1	0	26	< 0.5	121
10291	14	0	92	< 0.5	122
10292	4	0	54	< 0.5	123
10293	6	0	42	< 0.5	124
10294	7	0	83	< 0.5	125
10295	8	0	68	< 0.5	126
10296	3	0	22	< 0.5	127
10297	16	0	44	0.5	128
10298	7	0	48	< 0.5	129N
10299	4	0	56	< 0.5	92E - 130N
10301	6	0	56	< 0.5	80E - 112N
10332	8	0	92	< 0.5	113N
10303	7	0	54	< 0.5	114
10304	8	0	113	< 0.5	115
10305	26	0	60	< 0.5	116
10306	14	0	78	< 0.5	117
10307	12	0	76	< 0.5	118
10308	30	0	102	0.5	119
10309	8	0	102	< 0.5	120
10310	7	0	66	< 0.5	121
10311	21	0	81	< 0.5	122
10312	10	0	127	0.5	123
10313	10	0	142	< 0.5	124
10314	16	0	260	< 0.5	125
10315	12	0	380	< 0.5	126
10316	16	1	260	< 0.5	127
10317	16	0	123	< 0.5	128
10318	8	0	58	< 0.5	129
10319	4	0	38	< 0.5	80E - 130N
10320	33	0	104	< 0.5	82E - 130N
Std. #23	63	16	113	0.5	

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CERTIFICATE NO. 12585

INVOICE NO. 4401

DATE RECEIVED October 21/70

DATE ANALYSED October 29/70

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

ATTN: Mr. Heinz Veerman, Mgr.,

SAMPLE NO.	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
HV 10641	30	0	62	< 0.5	100E - 98N
10642	160	1	58	1.0	99N
10643	52	0	60	< 0.5	100N
13901	3	0	14	< 0.5	94E - 129N
13902	7	0	54	< 0.5	128N
13903	3	0	34	< 0.5	127
13904	4	0	46	< 0.5	126
13905	7	0	76	< 0.5	125
13906	8	0	102	< 0.5	124
13907	3	0	20	< 0.5	123
13908	1	0	10	< 0.5	122
13909	7	0	52	0.5	121
13910	8	0	60	< 0.5	120
13911	6	0	52	< 0.5	119
13912	7	0	48	< 0.5	118
13913	31	0	48	< 0.5	117
13914	4	0	54	< 0.5	116
13915	8	0	32	< 0.5	115
13916	10	0	56	< 0.5	114
13917	4	0	21	< 0.5	113
13918	24	0	70	< 0.5	112
13919	12	0	58	< 0.5	111
13920	34	0	52	< 0.5	110
13921	131	0	62	< 0.5	109
13922	12	0	38	< 0.5	108
13923	12	0	40	< 0.5	107
13924	30	0	58	< 0.5	106
13925	40	0	66	< 0.5	105
13926	26	0	81	< 0.5	104
13927	13	0	60	< 0.5	103
13928	20	0	42	< 0.5	102
13929	22	0	62	< 0.5	101
13930	21	0	46	< 0.5	96E - 101N
13931	13	0	50	< 0.5	102
13932	12	0	50	< 0.5	103
13933	20	0	42	< 0.5	104
13934	26	0	40	< 0.5	105
13935	13	0	36	< 0.5	106
13936	7	0	25	< 0.5	107
HV 13937	41	0	78	< 0.5	108
Std., #23	63	16	110	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12565
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10361	10	0	104	< 0.5	84E - 112N
10362	8	0	81	< 0.5	113 N
10363	7	0	86	< 0.5	114
10364	4	0	64	< 0.5	115
10365	13	2	180	< 0.5	116
10366	7	0	48	< 0.5	117
10367	8	0	72	< 0.5	118
10368	7	0	78	< 0.5	119
10369	12	0	83	< 0.5	120
10370	6	0	58	< 0.5	121N
10371	8	0	66	< 0.5	122
10372	12	0	81	< 0.5	123
10373	12	0	89	< 0.5	124
10374	8	0	102	< 0.5	125
10375	8	0	98	< 0.5	126
10376	6	0	81	< 0.5	127
10377	6	0	92	< 0.5	128
10378	26	0	220	0.5	129
10379	13	0	250	< 0.5	130
10380	16	0	123	< 0.5	86E - 130N
10381	4	0	16	< 0.5	129
10382	8	0	58	< 0.5	128
10383	7	0	98	< 0.5	127
10384	3	0	36	< 0.5	126
10385	26	0	107	< 0.5	125
10386	7	0	100	< 0.5	124
10387	12	0	72	< 0.5	123
10388	8	0	68	< 0.5	122
10389	8	0	38	< 0.5	121
10390	13	0	56	< 0.5	120
10391	10	0	70	< 0.5	119
10392	13	0	64	< 0.5	118
10393	12	0	95	< 0.5	117
10394	21	0	135	< 0.5	116
10395	13	0	104	0.5	115
10396	16	0	48	0.5	114
10397	31	0	64	< 0.5	113
10398	12	0	72	< 0.5	112
10399	8	0	56	< 0.5	111
10400	42	0	62	< 0.5	86E - 110N
Std. #23	64	16	113	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12586
INVOICE NO. 4401
DATE RECEIVED October 21/70
DATE ANALYSED October 29/70

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

ATTN: Mr. Heinz Veerman, Mgr.,

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
HV 13938	7	0	40	< 0.5	96E - 109N
13939	12	0	100	< 0.5	110 N
13940	36	0	48	< 0.5	111 N
13941	6	0	30	< 0.5	112 N
13942	13	0	64	< 0.5	113 N
13943	14	0	86	< 0.5	114 N
13944	3	0	15	< 0.5	115 N
13945	14	0	52	< 0.5	116 N
13946	12	0	83	< 0.5	117 N
13947	64	0	66	< 0.5	118 N
13948	13	0	86	< 0.5	119 N
13949	6	0	60	< 0.5	120 N
13950	8	0	83	< 0.5	121 N
13951	4	0	36	< 0.5	122 N
13952	4	0	15	< 0.5	123 N
13953	4	0	50	< 0.5	124 N
13954	4	0	78	< 0.5	125 N
13955	10	0	56	< 0.5	126 N
13956	7	0	56	< 0.5	127 N
13957	7	0	48	< 0.5	128 N
13958	7	0	76	< 0.5	129 N
13959	7	0	56	< 0.5	130 N
13960	6	0	40	< 0.5	98E - 130N
13961	6	0	68	< 0.5	129 N
13962	6	0	78	< 0.5	128 N
13963	7	0	83	< 0.5	127 N
13964	6	0	48	< 0.5	126
13965	10	0	66	< 0.5	125
13966	10	0	116	< 0.5	124
13967	12	0	68	< 0.5	123
13968	8	0	66	< 0.5	122
13969	14	0	86	< 0.5	121
13970	10	0	86	< 0.5	120
13971	12	0	56	< 0.5	119
13972	8	0	58	< 0.5	118
13973	14	0	66	0.5	117
13974	13	0	76	< 0.5	116
13975	13	0	139	< 0.5	115
13976	40	0	89	< 0.5	114
HV 13977	68	0	95	< 0.5	113 N
Std. #23	63	16	113	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12587
INVOICE NO. 4401
DATE RECEIVED October 21/70
DATE ANALYSED October 29/70

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

ATTN: Mr. Heinz Veerman, Mgr.,

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
HV 13978	72	0	62	< 0.5	98 E - 112 N
13979	14	0	107	< 0.5	111 N
13980	730	1	74	0.5	110
13981	24	0	104	< 0.5	109
13982	46	0	66	0.5	108
13983	44	0	60	< 0.5	107
13984	6	0	15	< 0.5	106
13985	28	0	44	< 0.5	105
13986	52	0	64	< 0.5	104
13987	26	0	68	0.5	103
13988	10	0	40	< 0.5	102
13989	24	0	66	0.5	101
13990	18	0	62	0.5	100
13991	12	0	46	< 0.5	99
13992	28	0	62	< 0.5	98
13993	42	0	58	< 0.5	97
13994	104	0	50	< 0.5	96
13995	40	0	66	< 0.5	95
13996	50	0	66	< 0.5	94
13997	63	0	66	< 0.5	93
13998	16	0	104	< 0.5	92
13999	74	0	72	< 0.5	91
HV 14000	8	0	36	< 0.5	90
Std., #23	63	16	113	0.5	

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12568
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10981	18	0	110	< 0.5	80E - 78N
10982	51	1	110	< 0.5	77N
10983	30	0	193	1.0	76N
10984	12	0	58	< 0.5	75N
10985	30	0	64	< 0.5	74N
10986	7	0	56	< 0.5	73N
10987	14	0	95	< 0.5	72N
10988	30	0	100	< 0.5	71N
10989	18	0	89	< 0.5	70N
10990	6	0	32	< 0.5	80E - 101N
10991	16	0	92	< 0.5	102
10992	8	0	66	< 0.5	103
10993	33	0	200	< 0.5	104
10994	21	0	92	< 0.5	105
10995	18	0	104	< 0.5	106
10996	30	0	78	< 0.5	107
10997	20	0	58	< 0.5	108
10998	12	0	56	< 0.5	109
10999	8	0	48	< 0.5	110
11000	7	0	54	< 0.5	111N
12766	13	0	123	< 0.5	86E - 70N
12767	26	0	81	< 0.5	71N
12768	70	0	107	< 0.5	72N
12769	18	1	62	< 0.5	73
12770	46	0	81	< 0.5	74
12771	24	0	78	< 0.5	75
12772	16	0	76	< 0.5	76
12773	42	0	60	< 0.5	77
12774	6	0	22	< 0.5	78
12775	18	0	64	< 0.5	79
12776	13	0	86	< 0.5	80
12777	8	0	40	< 0.5	81
12778	13	0	72	< 0.5	82
12779	13	0	92	< 0.5	83
12780	10	0	81	< 0.5	84
12781	10	0	72	< 0.5	85
12782	24	0	50	< 0.5	86
12783	3	0	26	< 0.5	87
12784	13	0	58	< 0.5	88
12785	18	0	54	< 0.5	89
Std. #23	62	16	107	0.5	

Certified by

Tenderloin Soils

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12569

INVOICE NO. 4401

DATE RECEIVED Oct. 21/70

DATE ANALYSED Oct. 29/70

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

ATTN: Mr. H. Veerman

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
12786	28	0	68	< 0.5	86E - 90N
12787	41	5	66	< 0.5	91N
12788	30	1	92	< 0.5	92N
12789	66	0	64	< 0.5	93N
12790	12	0	58	< 0.5	94N
12791	21	0	56	< 0.5	95N
12792	68	0	78	< 0.5	96N
12793	64	0	70	< 0.5	97N
12794	18	0	50	< 0.5	98N
12795	16	0	68	< 0.5	99N
12796	60	1	60	< 0.5	100N
12797	156	1	68	1.0	84E - 100N
12798	22	0	70	< 0.5	- 99N
12799	88	0	102	< 0.5	98N
12800	13	0	42	< 0.5	97N
13601	13	0	58	< 0.5	96E - 100N
13602	22	0	60	< 0.5	99N
13603	20	0	50	< 0.5	98N
13604	10	0	50	< 0.5	97N
13605	18	0	36	< 0.5	96N
13606	13	0	42	< 0.5	95N
13607	20	0	46	< 0.5	94N
13608	7	0	44	< 0.5	93N
13609	30	0	56	< 0.5	92N
13610	21	0	66	< 0.5	91N
13611	8	0	36	< 0.5	90N
13612	14	0	62	< 0.5	89N
13613	18	0	64	< 0.5	88N
13614	18	0	70	< 0.5	87N
13615	18	0	58	< 0.5	86N
13616	36	0	36	< 0.5	85N
13617	62	0	74	< 0.5	84N
13618	31	0	76	< 0.5	83N
13619	40	0	83	< 0.5	82N
13620	18	0	68	< 0.5	81N
13621	41	0	89	< 0.5	80N
13622	63	0	38	< 0.5	79N
13623	63	0	74	< 0.5	78N
13624	224	1	81	< 0.5	77N
13625	62	0	92	< 0.5	76N
Std. #23	64	16	110	0.5	

Certified by Lee W. Emery

Pinto - Soils

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12566
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc		PPM Silver	
10901	14	0	58	<	0.5	84E - 96N
10902	34	0	72	<	0.5	95N
10903	10	0	60	<	0.5	94
10904	31	0	36	<	0.5	93
10905	51	0	56	<	0.5	92
10906	31	0	58	<	0.5	91
10907	3	0	16	<	0.5	90
10908	18	0	76	<	0.5	89
10909	3	0	11	<	0.5	88
10910	4	0	44	<	0.5	87
10911	10	0	54	<	0.5	86
10912	4	0	62	<	0.5	85
10913	8	0	86	<	0.5	84
10914	4	0	40	<	0.5	83
10915	4	0	54	<	0.5	82
10916	7	0	54	<	0.5	81
10917	12	0	83	<	0.5	80
10918	10	0	92	<	0.5	79
10919	12	0	86	<	0.5	78
10920	7	0	74	<	0.5	77
10921	6	0	40	<	0.5	76
10922	4	0	42	<	0.5	75
10923	13	0	74	<	0.5	74
10924	10	0	60	<	0.5	73
10925	20	0	200	<	0.5	72
10926	13	0	95	<	0.5	71N
10927	3	0	34	<	0.5	70N
10928	13	0	54	<	0.5	82E - 70N
10929	36	0	123		0.5	71N
10930	12	0	52	<	0.5	72
10931	13	1	40	<	0.5	73
10932	13	1	147	<	0.5	74
10933	13	0	83	<	0.5	75
10934	18	0	142	<	0.5	76
10935	20	0	68	<	0.5	77
10936	13	0	81	<	0.5	78
10937	6	0	36	<	0.5	79
10938	8	0	74	<	0.5	80
10939	12	0	76	<	0.5	81
10940	6	0	52	<	0.5	82
Std. #23	63	16	110		0.5	

Certified by Lee W. Emery

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12570

INVOICE NO. 4401

DATE RECEIVED Oct. 21/70

DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
13626	80	0	89	< 0.5	96E - 75N
13627	22	0	66	< 0.5	74N
13628	54	0	58	< 0.5	73N
13629	24	0	74	< 0.5	72N
13630	30	0	110	< 0.5	71N
13631	22	0	83	< 0.5	70N
13632	26	0	89	< 0.5	94E - 70N
13633	22	1	81	< 0.5	71N
13634	21	0	83	< 0.5	72N
13635	20	0	68	< 0.5	73N
13636	30	0	70	< 0.5	74N
13637	31	0	66	< 0.5	75N
13638	30	0	81	< 0.5	76N
13639	28	0	58	< 0.5	77N
13640	40	0	54	< 0.5	78N
13641	40	0	70	< 0.5	79N
13642	270	0	60	< 0.5	80N
13643	700	0	86	1.0	81N
13644	24	0	76	< 0.5	82N
13645	31	0	70	< 0.5	83N
13646	224	0	74	< 0.5	84N
13647	64	0	74	< 0.5	85N
13648	146	5	102	0.5	86N
13649	33	0	81	< 0.5	87N
13650	13	0	58	< 0.5	88N
13651	33	0	81	< 0.5	89N
13652	18	0	70	< 0.5	90N
13653	14	0	60	< 0.5	91N
13654	14	0	58	< 0.5	92N
13655	41	0	48	< 0.5	93N
13656	48	0	62	< 0.5	94N
13657	58	5	54	< 0.5	95N
13658	13	0	64	< 0.5	96N
13659	12	0	46	< 0.5	97N
13660	13	0	48	< 0.5	98N
13661	30	0	50	< 0.5	99N
13662	12	0	50	< 0.5	100N
13663	12	0	40	< 0.5	92E - 100N
13664	30	0	72	< 0.5	99N
13665	4	0	16	< 0.5	98N
Std. #23	64	16	107	0.5	

Certified by Peter N. Emery

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12575
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10644	33	0	20	< 0.5	100N - 104E
10645	6	0	24	< 0.5	99N
10646	13	0	60	< 0.5	98N
10647	7	0	30	< 0.5	97N
10648	7	0	60	< 0.5	96N
10649	64	0	92	< 0.5	95N
10650	194	4	78	< 0.5	94
10651	70	0	92	< 0.5	93
10652	42	0	86	0.5	92
10653	1100	2	98	3.5	91
10654	16	0	32	< 0.5	90
10655	88	0	135	< 0.5	89
10656	90	0	131	0.5	88
10657	131	1	74	1.0	87
10658	141	0	116	1.5	86
10659	63	0	95	< 0.5	85
10660	48	0	107	< 0.5	84
10661	20	0	70	< 0.5	83
10662	50	0	78	< 0.5	82
10663	26	0	76	0.5	81
10664	20	0	95	< 0.5	80
10665	13	2	168	0.5	79
10666	18	0	113	0.5	78
10667	50	2	127	1.0	77
10668	13	0	340	0.5	76
10669	12	1	186	0.5	75
10670	6	0	74	< 0.5	74
10671	3	0	40	< 0.5	73
10672	12	1	180	0.5	72
10673	14	0	100	< 0.5	71
10674	21	2	110	< 0.5	70N - 104E
12705	26	0	86	< 0.5	71N - 90E
12709	28	0	76	< 0.5	75N - "
12712	38	0	66	< 0.5	78 - "
12715	28	0	68	< 0.5	81N - 90E
12729	22	0	66	< 0.5	95N - "
12731	44	3	66	< 0.5	97N - "
12733	18	0	46	< 0.5	99N - 90E
12739	18	0	60	< 0.5	96N - 88E
12745	26	1	92	< 0.5	90N - 88E
Std. #23	63	16	107	0.5	

71
75
78
81

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12576

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

INVOICE NO. 4401

DATE RECEIVED Oct. 21/70

ATTN: Mr. H. Veerman

DATE ANALYSED Oct. 29/70

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
12746	13	0	54	< 0.5	89N - 88E
12747	8	0	25	< 0.5	88N - "
12748	18	0	56	< 0.5	87N
12749	36	0	78	< 0.5	86N
12750	16	0	60	< 0.5	85N
12752	12	0	70	< 0.5	83N
12753	16	0	26	< 0.5	82N
12756	26	0	89	< 015	79N
12757	33	0	78	< 0.5	78N
12760	31	0	92	0.5	75N
12762	13	0	83	< 0.5	73N
12764	54	0	81	< 0.5	71N - 88E

Certified by John W. Ernes

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12567
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10941	12	0	78	< 0.5	82E - 85N
10942	16	0	86	< 0.5	84N
10943	4	0	50	< 0.5	85N
10944	22	0	98	< 0.5	86N
10945	16	0	81	< 0.5	87N
10946	22	0	50	< 0.5	88N
10947	6	0	21	< 0.5	89N
10948	36	0	70	< 0.5	90N
10949	36	0	89	< 0.5	91N
10950	63	3	163	< 0.5	92N
10951	24	0	48	< 0.5	93N
10952	84	1	62	< 0.5	94N
10953	4	0	20	< 0.5	95N
10954	7	0	40	< 0.5	96N
10955	12	0	76	< 0.5	97N
10956	20	0	89	< 0.5	98N
10957	4	0	18	< 0.5	99N
10958	4	0	18	< 0.5	100N
10959	4	0	20	< 0.5	80E - 100N
10960	4	0	14	< 0.5	99N
10961	28	0	110	< 0.5	98
10962	44	2	100	< 0.5	97
10963	42	0	81	< 0.5	96
10964	88	0	26	< 0.5	95
10965	26	0	83	< 0.5	94
10966	6	0	15	< 0.5	93
10967	14	0	38	< 0.5	92
10968	20	0	74	< 0.5	91
10969	6	0	36	< 0.5	90
10970	20	0	54	< 0.5	89
10971	21	0	34	< 0.5	88
10972	6	0	107	< 0.5	87
10973	10	0	104	< 0.5	86
10974	10	0	110	< 0.5	85
10975	10	0	72	< 0.5	84
10976	6	0	60	< 0.5	83
10977	7	0	58	< 0.5	82
10978	14	0	78	< 0.5	81
10979	14	0	76	< 0.5	80
10980	22	0	89	< 0.5	79N
Std. #23	63	16	107	0.5	

Certified by Lee W. Emery

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12584
INVOICE NO. 4401
DATE RECEIVED October 21/70
DATE ANALYSED October 29/70

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

ATTN: Mr. Heinz Veerman, Mgr.,

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Zinc	PPM Silver	
HV 10300	10	0	83	0.5	?
10601	33	0	81	< 0.5	98E - 89 N
10602	16	0	72	< 0.5	- 88 N
10603	12	0	48	< 0.5	87 N
10604	38	0	76	< 0.5	86 N
10605	98	0	70	< 0.5	85
10606	13	0	28	< 0.5	84
10607	31	0	74	< 0.5	83
10608	20	0	104	< 0.5	82
10609	28	0	64	< 0.5	81
10610	63	0	78	1.0	80 N
10611	112	0	62	< 0.5	79
10612	31	0	83	< 0.5	~~ ~~
10613	20	0	104	< 0.5	100E - 70N
10614	21	7	81	< 0.5	71N
10615	21	0	110	< 0.5	72
10616	36	0	119	0.5	73
10617	52	0	83	< 0.5	74
10618	58	0	100	< 0.5	75
10619	7	0	30	< 0.5	76
10621	60	0	127	< 0.5	78
10622	124	0	104	< 0.5	79
10623	100	0	131	0.5	80
10624	16	0	40	< 0.5	81
10625	16	0	34	< 0.5	82
10626	34	0	76	< 0.5	83
10627	760	0	58	2.0	84
10628	72	0	72	< 0.5	85
10629	104	0	86	< 0.5	86
10630	48	0	110	< 0.5	87
10631	21	0	32	< 0.5	88
10632	160	0	68	0.5	89
10633	144	1	81	1.0	90
10634	12	0	36	< 0.5	91
10635	38	0	98	< 0.5	92
10636	118	1	62	0.5	93
10637	56	1	56	0.5	94
10638	4	0	11	< 0.5	95
10639	20	0	64	< 0.5	96
HV 10640	36	0	46	< 0.5	100E 97N
Std., #23	64	16	110	0.5	

Certified by John W. Emery

Pinto Soils

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 12562
INVOICE NO. 4401
DATE RECEIVED Oct. 21/70
DATE ANALYSED Oct. 29/70

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 Zinc	PPM Silver	
10241	13	0	87	< 0.5	129N - 90E
10242	12	0	130	< 0.5	128 N - 90E
10243	12	0	104	< 0.5	127
10244	6	0	90	< 0.5	126
10245	6	0	82	< 0.5	125
10246	4	0	44	< 0.5	124
10247	16	0	140	< 0.5	123
10248	13	0	55	< 0.5	122
10249	10	0	98	< 0.5	121
10250	14	0	145	< 0.5	120
10251	72	0	93	0.5	119
10252	7	0	107	< 0.5	118
10253	8	0	113	< 0.5	117
10254	14	0	101	< 0.5	116
10255	12	0	120	< 0.5	115
10256	24	0	140	< 0.5	114
10257	26	0	163	< 0.5	113
10258	12	0	93	< 0.5	112
10259	13	0	84	< 0.5	111
10260	12	0	90	< 0.5	110
10261	21	0	84	< 0.5	109
10262	13	0	46	< 0.5	108
10263	78	2	101	< 0.5	107
10264	21	0	101	< 0.5	106
10265	6	0	17	< 0.5	105
10266	31	1	133	< 0.5	104
10267	40	0	107	< 0.5	103
10268	38	0	76	< 0.5	102
10269	86	0	110	< 0.5	101 - 90E
10270	88	0	82	< 0.5	101 N - 92E
10271	8	0	55	< 0.5	102 N
10272	14	0	93	< 0.5	103
10273	41	0	44	< 0.5	104
10274	12	0	48	< 0.5	105
10275	44	1	62	< 0.5	106
10276	22	0	98	< 0.5	107
10277	6	0	38	< 0.5	108
10278	13	0	93	< 0.5	109
10279	31	0	82	< 0.5	110
10280	6	0	48	< 0.5	111 - 92E
Std. #23	63	16	110	0.5	

Certified by Jean W. Emens

INVOICE

CHEMEX LABS LTD 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648

West Coast Mining & Exploration Ltd.,

#205 - 122 E. 14th St.,

North Vancouver, B. C.

DATE Oct. 29/70

INVOICE NO. 4401

12561 to 12576

CERTIFICATE NO. 12584 to 12587

ATTN: Mr. H. Veerman

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	724 Samples analyzed for Copper, Molybdenum, Zinc & Silver @ $2.05	$1484.20	
	724 Samples prepared @ $0.20	144.80	
			$1629.00

TERMS — NET 30 DAYS

INVOICE

CHEMEX LABS LTD 212 BROOKSBANK AVE., NORTH VANCOUVER, B.C. TELEPHONE 985-0648/9

West Coast Mining & Exploration,

#205 - 122 E. 14th St.,

North Vancouver, B. C.

DATE June 22/70

INVOICE NO. 3015

CERTIFICATE NO. 8593 to 8597

ATTN: Mr. H. Veerman

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	200 Samples analyzed for Copper @ $1.00	$200.00	
	200 Samples prepared @ $0.20	40.00	
			$240.00
	TERMS — NET 30 DAYS		

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

TO WIT:

In the Matter of Geophysical and Geophemical surveys on the Pinto Group of claims in the Greenwood Mining Division

I, Heinz Veerman

of North Vancouver, B.C.

in the Province of British Columbia, do solemnly declare that the following is an accurate statement of the expenses incurred in relation to the Geophysical surveys and Geochemical surveys carried out on the Pinto Group of claims in the Franklin Camp in the Greenwood M.D. from May 13th to June 29th, 1970.

Wages and salaries :			
H. Veerman, P. Eng.	May 13, 14, 15, 16, 29, 30, 31	$ 300.-	
W.G. Botel, P. Eng.	June 7-14	225.-	
M.G. Webb, Instrument Man,	May 26-June 15,	450.-	
R.S. Powell, Soil sampler,	May 26-June 15,	450.-	
F. Einfeldt, assistant,	May 26-June 15	450.-	
F. Einfeldt, assitant,	June 22-June 29	150.-	
M. Camroux, Instrument Man,	June 22-June 29	150.-	
		$2175.-	2175.-
Assaying, (see copies of bills attached to report)			$1869.-
Ronka E.M. 16 instrument rental	1 month		300.-
Truck rental 1 month			300.-
Oil gas and supplies,			500.-
		Total expenditures	$5,144.-

A total of $4800.- is claimed for assessment work on the Pinto Group.

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 15 day of April 1971, A.D.

H. Veerman

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

Sub-mining Recorder

60 E | 80 E | 100 E | 120 E | 140 E

LOIN 45 | LOIN 46 | LOIN 19 | LOIN 20 | LOIN 35 | LOIN 36

LOIN 17 | LOIN 18

120 N

LOIN 43 | LOIN 44 | LOIN 33 | LOIN 34

I.P. Loin 1, 2.

LOIN 41 | LOIN 42 | LOIN 2 | LOIN 1 | LOIN 31 | LOIN 32

100 N

LOIN 39 | LOIN 40 | LOIN 4 | LOIN 3 | LOIN 29 | LOIN 30

I.P. Loin 5, 6

LOIN 6 | LOIN 5

LOIN 50 | LOIN 49 | LOIN 27 | LOIN 28

80 N

LOIN 12 | LOIN 11

F.P. 11/12

N

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2952 MAP #1

To accompany Geophysical-Geochemical Report by H. Veerman, P. Eng. on the Pinto Group of claims in the Greenwood M.D. Dated March 1971.

2952

M-1

WEST COAST MINING & EXPLORATION

PINTO PROPERTY

RONKA E.M. 16 SURVEY

Station SEATTLE. Readings in per cent.

N ← ◇ = Positive

Scale 1" = 400' | Mar. 71, H.V. | 82E/9

60 E

80 E

100 E

120 E

140 E

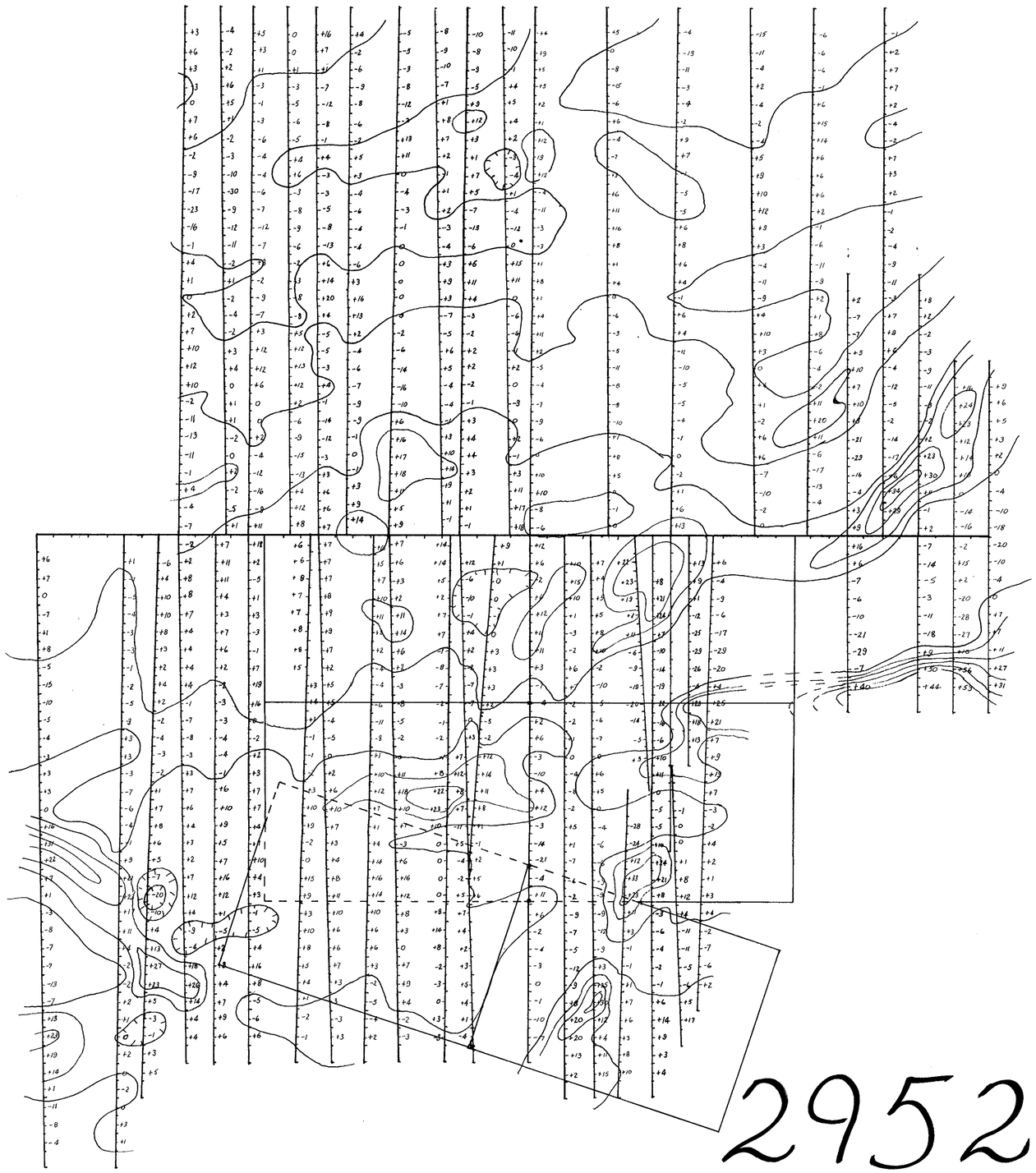
N

120 N

100 N

80 N

60 N



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2952 MAP #2

To accompany Geophysical-Geochemical Report by H. Veerman, P. Eng. on the Pinto Group of Claims in the Greenwood M.D.
Dated March 1971.

M-2

2952

WEST COAST MINING & EXPLORATION

PINTO PROPERTY

RONKA E.M. 16 SURVEY

Station SEATTLE. Readings filtered according to the formula (a+b)-(c+d), North to South.

Scale 1"=400'	Nov. 1970	H.V.

60 E

80 E

100 E

120 E

140 E

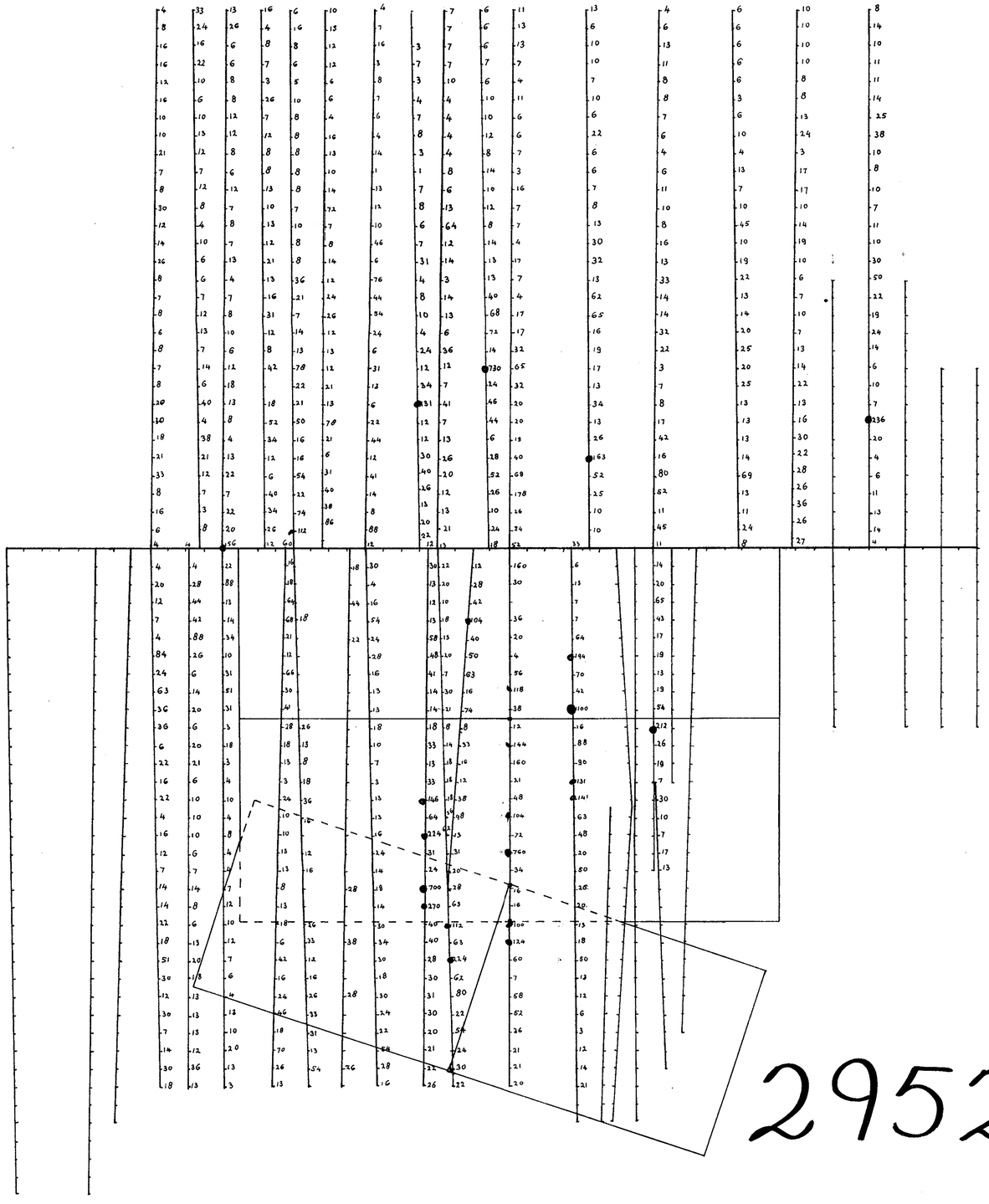
N

120 N

100 N

80 N

60 N



2952

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2952 MAP #3

To accompany Geophysical-Geochemical Report by H. Veerman, P. Eng.
on the Pinto Group of claims in the Greenwood M.D.

Dated March, 1971

M-3

WEST COAST MINING & EXPLORATION

PINTO PROPERTY

SOIL SURVEY

67 = Parts Per Million COPPER

Scale 1" = 400'	Nov. 1970	H.V.

60 E

80 E

100 E

120 E

140 E

N

120 N

100 N

80 N

60 N

Values less than 0.5 p.p.m. Silver not plotted

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2952 MAP #4

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Dated March 1971.

2952

M-4

WEST COAST MINING & EXPLORATION

PINTO PROPERTY

SOIL SURVEY

70/0.5 = Parts Per Million ZINC/SILVER

Scale 1" = 400'	Nov. 1970	H.V.