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VANCOUVER, B.C.

ASSESSMENT REPORT

ON THE

MONTECRISTO AND DUCHESS GROUPS

ALBERNI MINING DIVISION  
BRITISH COLUMBIA  
LATITUDE 49°14'30" NORTH  
LONGITUDE 125°37'30" WEST

NTS 92F/4E

05/86

FOR

WEST-MAR RESOURCES LTD.  
1220 - 800 WEST PENDER STREET  
VANCOUVER, BRITISH COLUMBIA

FILMED

<sup>V6C 2V6</sup>  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

BY  
14,337

PATRICK J. GANNON, B.Sc.  
Consulting Mining Geologist

VANCOUVER, BRITISH COLUMBIA  
20 AUGUST 1985

05/86

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## ILLUSTRATIONS

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## INTRODUCTION

West-Mar Resources Ltd., 1220 - 800 West Pender Street, Vancouver, B.C., V6C 2V6, F.M.C. 275284, acquired on April 1, 1985, for the sum of \$ 8,000, Reverted Crown Grants (11 units) from Mr. David W. Murphy, Box 142, Vananda, B.C., V0N 3K0

The purpose of the present work was an exploratory geochemical survey as well as to try to find some reported old adits.

## SUMMARY

The Montecristo and Duchess groups consists of 11 units in the Port Alberni Mining Division, British Columbia.

From the geological reconnaissance and the partial soil geochemistry, I recommend:

- 1) A minimum \$ 5,000 work programme to define, a) the mineralized areas at the headwaters of Elsul Creek, b) to survey, map, and sample the recently found old adit at 300 east - 715 North.
- 2) Surface geological mapping of both of these mineralized zones to be complemented by soil geochemistry for copper and zinc. This to be followed by selective silver-gold geochemistry of those samples which assayed high copper and zinc values.

Based on the very encouraging results from the work which was done, I strongly suggest that even at this time, West-Mar Resources Ltd. should consider expanding its mineral holdings in the area.

**PROPERTY AND LOCATION**

The Montecristo and Duchess groups consist of 11 units covering 13 Reverted Crown Grants. The groups are located at an elevation between 100 and 900 meters on map sheet 92F/4E, Alberni Mining Division, British Columbia, at 49°14'30" North Latitude and 125°37'30" West Longitude. The property is north and west of Kennedy Lake and is east and east-southeast of the Devon Mine.

The groups were recorded on May 27, 1985.

The **Montecristo** group (2 units) comprises the:

	<b>RECORD NO.</b>
Count of Montecristo	1767
Condor	1768

The **Duchess** Group (9 units) includes:

Leviathan )	1766
Leviathan 2)	
American Wonder)	1769
Yankee Blade)	
Princess	1772
Countess	1771
Duchess	1770
Lady Francis	1763

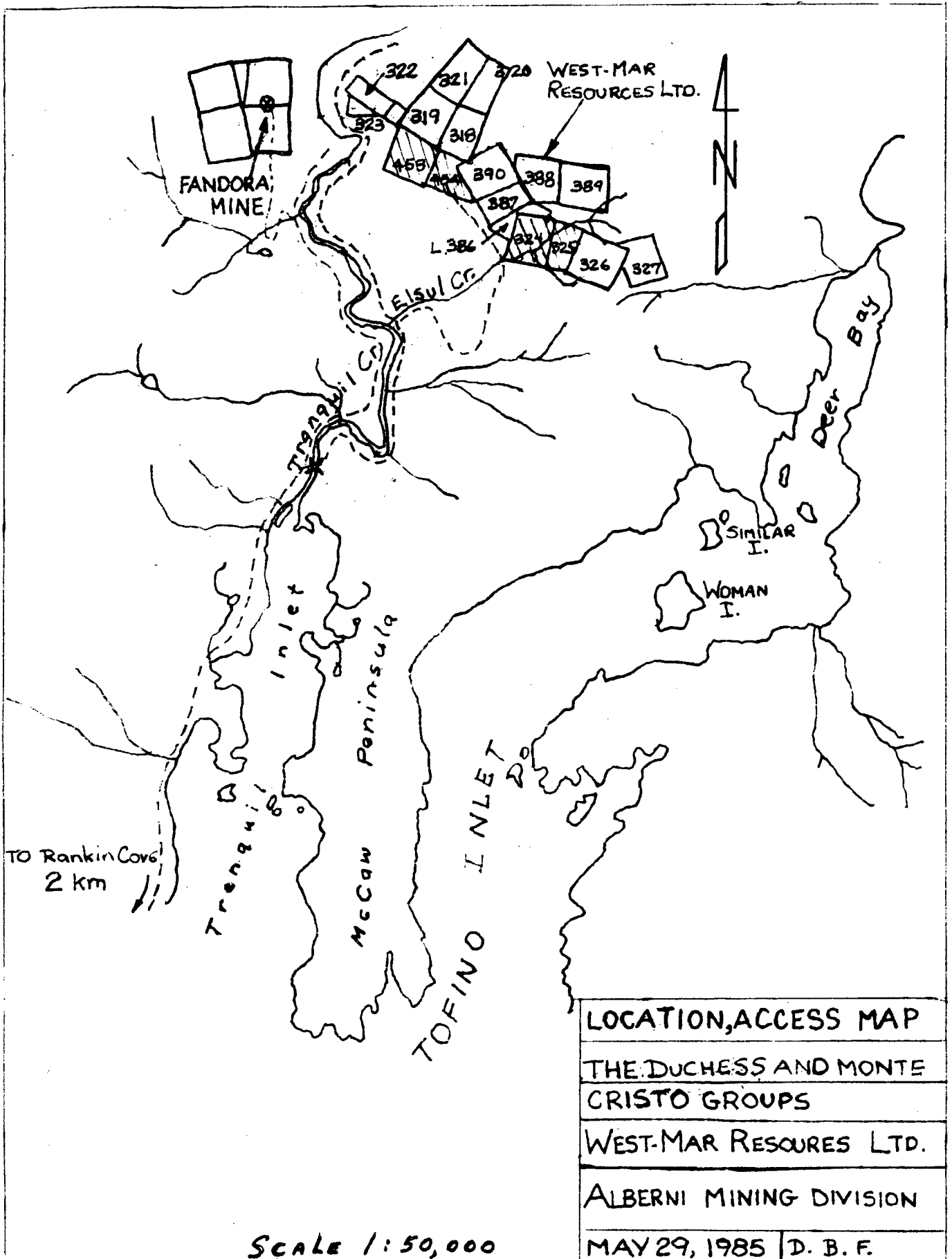
General James M.	1762
Success	1765
Superb	1764

#### **ACCESSIBILITY (see Location Map)**

From the Alberni-Tofino highway just west of Kennedy Lake, take the excellent gravel West Main road to Berryman Cove for 20 kilometers (caution should be stressed as this is the main logging road). From Berryman Cove to Rankin Cove across the Tofino Inlet the only transportation is the worker's boat of MacMillan Bloedel. Then along the four-wheel drive road west of Tranquil Inlet for about 10 kilometers to a main bridge roughly at the mouth of the Tranquil River. Then for roughly 4 kilometers along the east side of Tranquil Creek to Crown Grants L322 and L323. The grid on this property is not accessible by road, nor are the majority of the claims.

#### **REGIONAL GEOLOGY**

The east half of the geology of Vancouver Island, Scale 1:250,000 by J.E. Muller, 1977 shows the property to be within a granitoid stock of Middle Jurassic age. Only close to the headwaters of Elsul Creek is there a younger medium-grained aplitic granite. The predominant rock-unit on the rest of the property is an andesite.



TO Rankin Cove  
2 km

LOCATION, ACCESS MAP

THE DUCHESS AND MONTE  
CRISTO GROUPS

WEST-MAR RESOURCES LTD.

ALBERNI MINING DIVISION

MAY 29, 1985 | D. B. F.

SCALE 1:50,000

## LOCAL GEOLOGY, MINERALIZATION AND ALTERATION

From this preliminary prospecting it appears, at this time, we have 3 individual mineralized altered zones.

a) The best altered zone is a 35 meter wide zone, with a 3.5 meter vertical quartz vein striking N70°W, and some smaller veins and stringers, which are located in C.G. 323 and 322. With the single exception of Sample No. 2805 which assayed 0.3% Cu and 2.7 ppm Ag, all other rock and soil samples were negative.

b) The best mineralized zone is a magnetite-bearing skarn from the dump of the adit on line 300 east-715 north. Two random samples 2802 and 2803 assayed 5.5% Cu and 2.7% Cu with 1.6 oz/ton Ag and 0.9 oz/ton Ag, respectively. This mineralization continues for at least 25 meters to the north.

c) The float from Elsul Creek consists of an epidote skarn with copper mineralization associated to silver values as in Samples No. 2810 and 2812 (1.2% Cu - 9.1 ppm Ag and 0.8% Cu - 4.2 ppm Ag).

Even though an old cabin was found at the headwaters of Elsul Creek, the source of the mineralization was not found.

## GEOCHEMISTRY

No definite soil profile could be detected due to the 45' plus relief of the property.

Sampling, therefore, was limited to the talus material, with particular effort to eliminate organic-rich material of the A-horizon.

A total of 65 samples were taken, of which 39 were soil, 11 stream sediments,

and 15 rock, and assayed for gold, silver, copper, lead, zinc, and antimony. All eleven stream sediment samples were negative.

Assaying was done by Acme Analytical Laboratories, 852 East Hastings Street, Vancouver, British Columbia, V6A 7R6, phone (604) 253-3158, for gold using atomic absorption and for silver, antimony, lead, zinc and copper, using inductively coupled argon plasma (ICP).

### **Interpretation of Results**

1. **Antimony** - known to be a good pathfinder for gold on Vancouver Island, was absolutely flat. Tetrahedrite, thus, can be ruled out as the source of the anomalous copper, zinc, silver, and lead values. No further antimony geochemical surveying is warranted.
2. **Lead** - there is no correlation between lead and the very high anomalous silver values. The one anomalous and one threshold value obtained in soils does not warrant further assaying for lead.
3. **Zinc** - there is a direct correlation between anomalous zinc values and those for copper and silver.
4. **Copper** - is the predominant non-ferrous mineral and is directly associated to the silver values.
5. **Gold and Silver** - the significant silver values in the rock samples are associated to the anomalous gold values. There is no correlation between the occasional threshold and anomalous values for gold with those values for silver in the soil samples.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the geochemical survey, I recommend:



1. No further stream sediment sampling. Due to the extremely rough topography all streams are too active to permit a significant sample.
2. Antimony should not be used as a pathfinder at all. Bismuth in soils appears to be a better alternative when prospecting for gold.
3. Geochemical assaying for zinc should be continued to provide a better understanding of the value of the possible ore.
4. Copper and silver geochemical assaying should be done for all rock samples.
5. To minimize costs, no further silver soil geochemistry is warranted. As pulps are kept at the lab, geochemical assay in rocks should be run selectively for silver and gold only when 'significant' zinc and copper assays are obtained.

From this reconnaissance prospecting it appears obvious that the first set of priorities should include:

1. Brunton and chain survey, geological mapping, and sampling of Adit 300 east - 715 North.
2. Locate the source of the skarn at the headwaters of Elsul Creek.
3. Surface geological mapping and sampling of both of these mineralized zones.

Because of the difficulty of access and the high costs of mobilization/demobilization, I recommend as a very minimum a \$ 5,000 work programme, to cover the above target and to properly search for additional old workings in these Crown Grants.

## STATEMENT OF COSTS

The program on the Montecristo and Duchess mineral claim groups was done between May 23-25, 1985.

## PERSONNEL

**Patrick J. Gannon**  
Consulting Mining Geologist  
1 day @ \$275/day \$ 275.00

**Dan Fenning**  
Prospector - Sampler  
3 days @ \$125/day 375.00

**Tony Wesley**  
Field Assistant - Sampler  
3 days @ \$75/day 225.00

**GROCERIES AND SUPPLIES** 105.25

**TRUCK RENTAL** 131.00

## ASSAYS - (65)

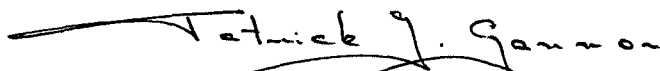
(Gold, silver, antimony, copper, lead, zinc)  
(Following Appendix I) 688.75

**PROSPECTING AND GEOCHEMICAL REPORT** 400.00

**TOTAL WORK PROGRAM:** \$ 2,200.00

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Respectfully submitted,



Patrick J. Gannon, B.Sc.,  
Consulting Mining Geologist.

**APPENDIX I**  
**ACME ANALYTICAL LABORATORIES LTD.**  
**ASSAYS**

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 19 1985

DATE REPORT MAILED: *June 25/85*

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SM.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1-2 SOILS P3-ROCKS AU\*\* ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

GLENDORA PROJECT - CROWN GRANTS FILE # 85-0997 PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Au** PPB
OE 930N	26	22	23	.5	2	1
OE 900N	3	9	9	.1	2	2
OE 875N SILT	49	24	452	.1	2	1
OE 850N	7	11	27	.2	2	2
OE 800N	2571	44	536	1.3	2	2
OE 750N	37	17	31	.2	2	1
OE 700N	35	15	48	.1	2	1
OE 650N	7	7	13	.3	2	1
OE 600N	23	9	16	.3	2	2
OE 550N	533	9	395	.1	2	2
OE 535N SILT	119	20	101	.3	2	4
OE 500N SILT	31	5	82	.1	2	2
OE 450N	35	6	25	.1	2	1
OE 400N	16	9	19	.2	3	1
OE 350N	33	12	28	.3	2	2
OE 315N SILT	6	7	8	.5	2	1
OE 300N	2	8	4	.1	2	2
OE 250N	13	8	17	.2	3	2
OE 200N	11	9	13	.4	4	1
OE 100N	12	5	6	.2	5	2
OE 50N	10	2	6	.3	2	3
OE 25N SILT	35	12	77	.1	2	5
OE 0N SILT	10	8	16	.4	3	4
3E 750N	297	128	196	.5	2	3
3E 700N	14	7	15	.2	2	2
3E 650N	9	6	17	.3	2	1
3E 600N	20	9	52	.4	2	6
3E 550N	13	7	16	.1	2	3
3E 500N	6	14	30	.4	2	1
3E 450N	17	8	18	.2	3	12
3E 400N	3	3	16	.2	2	1
3E 350N	8	4	13	.2	2	1
3E 300N	4	6	18	.3	2	2
3E 250N	4	7	25	.1	2	2
3E 200N	13	12	21	.2	3	1
3E 150N	20	18	44	.2	2	2
STD C/FA-AU	58	42	132	7.1	15	51

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Au** PPB
3E 100N	50	3	88	.7	2	3
3E 80N SILT	26	2	17	.5	2	1
3E 50N	18	9	13	.5	2	2
3E 00N	4	8	7	.2	2	5
TR 1	43	9	27	.2	2	3
TR 2	5	9	11	.2	2	8
TR 3	28	11	18	.4	2	5
TR 4	24	5	30	.4	2	4
TR 5	40	2	43	.3	2	5
TR 6	38	2	38	.1	2	2
ELSUL 1 SILT	36	2	55	.1	2	4
ELSUL 2 SILT	1	2	1	.1	2	2
ELSUL 3 SILT	94	2	63	.1	2	2
ELSUL 4 SILT	19	2	45	.1	2	2
STD C/FA-AU	60	38	128	7.1	15	51

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Sb PPM	Au** PPB
2801	52	14	66	.4	2	1
2802	55324	18	2589	55.9	2	16
2803	27475	21	987	32.1	2	20
2804	7516	22	212	59.2	2	36
2805	2952	7	102	2.7	2	1
2806	193	3	46	.5	3	1
2807	169	2	48	1.0	2	1
2808	277	7	78	.5	2	1
2809	62	4	48	.2	2	1
2810	12824	14	74	9.1	6	210
2811	79	4	25	.1	2	1
2812	8524	3	228	4.2	2	20
2813	117	2	5	.1	2	1
2814	90	3	14	.1	2	5
2815	21	2	9	.1	2	1
STD C/FA-AU	60	40	134	6.9	16	54

**APPENDIX II**  
**CERTIFICATE OF QUALIFICATIONS**  
**PATRICK J. GANNON, B.Sc.**

## CERTIFICATE OF QUALIFICATIONS

I, **PATRICK J. GANNON**, hereby certify:

1. That I am a Consulting Mining Geologist and maintain an office at Suite 200-675 West Hastings Street, Vancouver, British Columbia, Canada, V6B 4Z1, Telephone (604) 685-0167.
2. That my basic engineering was taken at the University of Notre Dame, South Bend, Indiana, U.S.A, (1955-57).
3. That I hold a degree in Geology (Earth Sciences) from Montana State College, Bozeman, Montana, U.S.A (1961).
4. That I have practised my profession for 24 years (22 surface, 2 underground) mainly in Canada, U.S.A., Mexico, Ecuador, Peru, Chile, Egypt and Afghanistan.
5. That I am a member of the Canadian Institute of Mining and Metallurgy (CIMM), the British Columbia and Yukon Chamber of Mines, and the American Institute of Mining Engineers (AIME).
6. That I have no interest, direct or indirect, in any of the claims covered by the Montecristo and Duchess groups, nor do I expect to receive any.
7. That this report is based on compilation of data, crew direction, and a field survey between May 23-25, 1985, and evaluation of the results.
8. West-Mar Resources Ltd. is hereby given permission to reproduce this report, or any part of it, for filing with a Prospectus or Statement of Material Facts, or other documents as required by the regulatory authorities, provided, however, that no portion may be used out of context in such a manner as to convey a meaning differing from that set out in the whole.

**DATED AT VANCOUVER, BRITISH COLUMBIA**  
20 August 1985

  
~~Patrick J. Gannon~~  
Consulting Mining Geologist.



