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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2436 MAP

## GEOLOGICAL

## PRELIMINARY EXAMINATION

OF VANHALL CLAIMS

ALBERNI MINING DIVISION

VANCOUVER ISLAND, B.C.

(I25° 49° N.W.)

For

MORESBY MINES LIMITED

by

David Arscott, P.Eng.
October 25 to 27, 1969.

#### INTRODUCTION

#### PROPERTY

## Location and Access:

The claims lie three miles due south of Gold Lake, and eight miles north of the town of Gold River, in the centre of Vancouver Island, B.C.

Access is via a logging road from the Gold River - Campbell River highway to a point four miles from the property, thence by foot trail.

A helicopter, available in Campbell River, can land either at the mouth of Della Creek, or on a patch of swamp at the south end of the property.

#### Claims Comprised:

<u>Nam</u>	<u>e</u> 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888	<u>Tag Number</u>	Record Number
Vanhall #	I Van Hall	608340	II252
Vanhall #	2	60834I	II253
Vanhall #	3	608342	I I 254
Vanhall #	4	608343	II255
Vanhall #	5	608344	II256
Vanhall #	6	608345	II257

The owners are Edward Vanstone and William Hall, both of Campbell River, B.C.

## History:

Except for prospecting, there is no record of any previous geological work.

#### GEOGRAPHY

Altitude:

2600 feet (at pass)

Relief:

700 feet (within claims)

Precipitation:

about 70 inches annually

Vegetation:

Large diameter, mature, Balsam, Yellowcedar, and

Fir, with light underbrush, and deadfalls.

Terrain:

Steep at the edges of property. The creeks are

steep sided and may be difficult to cross at times

of high water.

Overburden:

Consistent and continuous except for creek cuts. depth probably does not exceed 50 feet anywhere.

## GEOLOGY

The outcrops seen consists largely of volcanics of the Bonanza Group (Triassic) with dykes and pods of granodiorite. No major contacts were crossed, but regional mapping (Comox Lake Area, G.S.C. map 2-1965) indicates a large granodiorite stock a mile to the southeast of the claim block.

The volcanics vary from andesite, with amygdaloidal and fragmental varieties, to basalt. The diorites contain IO to 25% hornblende, and up to IO% pink feldspar. Lamprophyre dykes are present, of approximately andesitic composition.

Alteration consists of silicification, with locally developed epidote, and calcite.

With the limited outcrop very little stucture could be delineated. The main features noted were the extensive fragmentation of the volcanics, without preferred directions, and a series of North-west trending steeply dipping faults. Three similar trending major lineaments are observable on the airphotographs.

Mineralization consists of consistent and almost continuous pyritization, in amounts of from 1% to 10% over an area 3500 feet long by 1000 feet wide. Associated with this are erratic Copper assays with occasional silver values. The useful metal values are roughly proportional to the pyrite content, and are often associated with magnetite.

## GEOLOGY CON'T

The following table illustrates this. (all samples except #1034 may be considered crudely representative).

gen o Pier krije Man o Perski			03 Common of in Ken
Sample #	<u>% Cu</u>	<u>% Ag</u>	Description
1034	I.72	0.95	60% pyrrhotite, chalcopyrite magnetite and pyrite
1035	0.69	trace	70% pyrite, with some magnetite.
1040	0.55	0.78	50% pyrite, 50% magnetite in an I8" vien.
1033	0.50	trace	• 50% pyrite, 5% magnetite.
I039	0.15	trace	2% disseminated pyrite, chalcopyrite.
1031	0.08	trace	IO% coarse, light colored pyrite.
1032	0.07	trace	<pre>I% pyrite with minor magnet- ite and epidote in N.W. fault.</pre>
I02I to I030 and I038	trace to 0.04	trace	<pre>I% to I5% pyrite. Magnetite in #I024 only.</pre>

Some previous samples showed considerably higher assays. these were carefully picked samples.

## MINERAL POTENTIAL

The large area of mineralization, and the widespread alteration and fracturing give a very favourable ore environment.

The following points are noted:

- I. The pyrite is of deep seated origin, not syngenetic. This, and the size of the pyritized area suggest deep reaching structures, which may serve as ore carriers.
- 2. The copper deposits of Vancouver Island are often related to, but not necessarily directly coincident with pyrite deposits.
- 3. Copper staining, rare in the area examined, is reported to occur a half mile west of the main creek, and occasional copper mineralized float has been picked up on the west slope.

## CONCLUSIONS

The main pyrite showing provides scattered copper and silver values. The areas applicable to these values are not known, but are probably small. However, the widespread alteration and evidence of favourable structures, make the property well worth further attention.

## RECOMMENDATIONS -

## Stage I

- I. Preparation of a four mile rough road to the property.
- 2. Basic mapping and prospecting wherever possible.
- 3. A silt survey of Vanstone Creek, sampling every 200 feet. (no silts were seen in the tributary streams.)

## RECOMMENDATIONS CON'T

## Stage II

- I. Soil sampling on lines 400 to 600 feet apart, with samples every IOO feet. An attempt should be made to reach "B" horizon material if possible.
- 2. Detail "fill in" where indicated by the soil values, and by any useful information from stage I.
- 3. A magnetometer survey of the same grid to utilize the known magnetite-copper association. (very common in this region)

## Stage III

I. Diamond drilling and or trenching.

## REFERENCES

Airphotos: B.C. 5043-79,80.

Gunning H., Buttle Lake map area, G.S.C. summary report 1930, Pt. A.

#### APPENDIX I

## EVIDENCE OF EXPENDITURES

#### Wages:

D. Arscott - \$ 50.00 per day

	aays	강기의 생활하는 기후 등을 제외되었다.
Travel 2	그 빨리 하면 너 네를 가는데 하다.	하고, 교통한 트리크일링트.
Office 3		
8	days @ \$ 50.00	\$ 400.00

#### Expenses:

D. Arscott	(camp supp	lie	s) :	\$ 12.60			
R.E. Dale (	groceries	)		41.27		700	* ~
	camp supp	lies	)),	69.29		123	.16

#### Travel:

Okanagan Helicopters Limited (invoices # 10-279, 10-362) 450.00

## Assaying:

T.S.L. Laboratories (invoice # 7459) \$ 221.00 Coast Eldridge Ltd. (invoice # 44202) 162.90 383.90

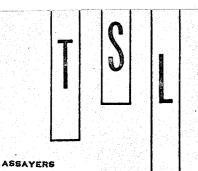
\$ 1,357.06

#### APPENDIX II

### STATEMENT OF QUALIFICATIONS

- I, David Philip Arscott, of business address,
   17 558 Howe Street, Vancouver, B. C., am a
   Professional Engineer, registered in the Province of British Columbia.
- I personally examined and mapped The Vanhall claims as described in this report.
- 3. I have three years experience in various phases of mineral exploration, mostly in the Province of British Columbia.
- 4. The expenses here listed are, to the best of my knowledge, true.

David P. Arscott, M.Sc. P. Eng.



Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C

**TELEPHONE 688-3504** 

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

CHEMISTS

GEOCHEMISTS

MORESBY MINES LTD.

REPORT NO.

V-7024

SAMPLE(S) OF

ROCK

Sample No.	Gold (Au)oz:ton	Silver (Ag)oz:ton	Copper (Cu)%	Molybdenum (Mo)%
1021	trace	trace	0.02	
1022	trace	trace	trace	
1023	trace	trace	trace	
1024	trace	trace	trace	
1025	trace	trace	0.04	
1026	trace	trace	0.03	trace
1027	trace	trace	0.01	0.01
1028	trace	trace	0.01	trace
1029	trace	trace	0.01	trace
1030	trace	trace	0.01	trace
1031	0.01	trace	0.08	trace
1032	0.01	trace	0.07	trace
1033	trace	trace	0.50	trace
1034	trace	0.95	1.72	trace
1035	trace	trace	0.69	trace
<b>{1036</b>	trace	trace	0.22	
<u>[</u> 1037	trace	trace	0.13	
1038 .	trace	trace	trace	

oz:ton - Troy ounces per 2,000 lbs.

DATE November 3, 1969.

GNED FOX Hetches

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

DIVISION OF TECHNICAL SERVICE LABORATORIES



Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

**TELEPHONE 688-3504** 

#### CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

GEOCHEMISTS

MORESBY MINES LTD.

REPORT NO.

V-7031

SAMPLE(S) OF

ROCK

Sample No. (Au)oz:ton (Ag)oz:ton (Cu)% (Mo)	8
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1039 trace trace 0.15	
1040 trace 0.78 0.55 0.02	

oz:ton - Troy ounces per 2,000 lbs.

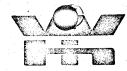
U	November	3, 1969	<b>)</b> •
DATE			

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

SIGNED ROSletcha\_\_\_\_



Morseby Mines Ltd.,



## Certificate of Assay



PHONE 04) 876-411 TELEX: 04-50353 CABLE ADDRESS: ELDRICO

Pamilian Carudian Fus Ing Assaciation

1327 - 510 West Hastings Street

Vancouver, B.C.

## WARNOCK HERSEY INTERNATIONAL LIMITED

COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION

125 EAST 4TH AVE. VANCOUVER 10, B.C., GANADA

FILE NO. 460-A-9033

DATE

October 21, 1969

200	CER I AT IN						
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	GOL	.D	SILVER			Molyhdenite		COMPLET CHARLEST PRODUCED CONTROL OF SPREADOWN	
MARKED	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	Coppelia (Cu)	Hickel, (Nt)	CENT	PER CENT.	PER CENT	PER CENT.
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157	0.02	0.70	0.3	0.60		0.01	< 200 B	LOW HALL	Reak
158	0.46	16.10	0.1	0.20		0.22	< SOUTH S	Siot HALL	Reak
159	0.04	1.40	0.2	0.25		0.02			
160	0.02	0.70	0.1	0.37	ali e e Anno agrico	0.02			
161	Trace	•	0.1	0.05		0.01	SRANITE,	GATH SIDE L	DNSTONE (
162	0.02	0.70	0.2	0.98		0.02			
163	Trace	•	Trace	0.05		0.01			
164	0.01	0.35	0.1	0.06		0.01			
165	0.01	0.35	0.1	0.03		0.01			
166	0.01	0.35	0.2	0.05		0.01			
167	0.01	0.35	0.7	8.52	0.02	imp Ckow	SNOT, INCL	UDED IN L	DALIALL

Note. Rejects retained one week.

Pulps retained one month.

Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

Gold calculated at \$ \_\_\_\_\_ per ounce

Provincial Assayer

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