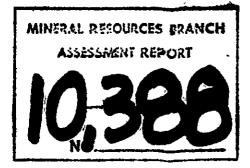
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GEOCHEMICAL REPORT

ON THE

JAS #1 MINERAL CLAIM VANCOUVER ISLAND, B.C. N.T.S. MAP SHEET 92C/15 Victoria M.A.

48° 51 124 35

for

MALABAR MINES LTD.

by

R.R. Culbert, PhD., P.Eng.

May 15, 1982

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In Pocket

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JAS MINERAL CLAIM VANCOUVER ISLAND, B.C.

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INTRODUCTION

In the spring of 1981 prospector R.J. Bilquist was employed by Malabar Mines Ltd. to explore the region between Nitinat and Cowichan Lakes in southern Vancouver Island. This resulted in the discovery of mineralization exposed by the building of new logging roads. The JAS-1 mineral claim was staked to cover the area of interest, which was subsequently prospected in more detail. Further, the immediate area of the newly discovered mineralization was covered by a small grid to control geochemical soil sampling. This report summarizes results to date.

LOCATION, ACCESS AND HISTORY

The JAS mineral claim is located near the headwaters of Jasper Creek approximately 6 km (4.3 miles) E.N.E. of the north end of Nitinat Lake on southern Vancouver Island. Geodetic coordinates are 48°51' North; 124°35' West.

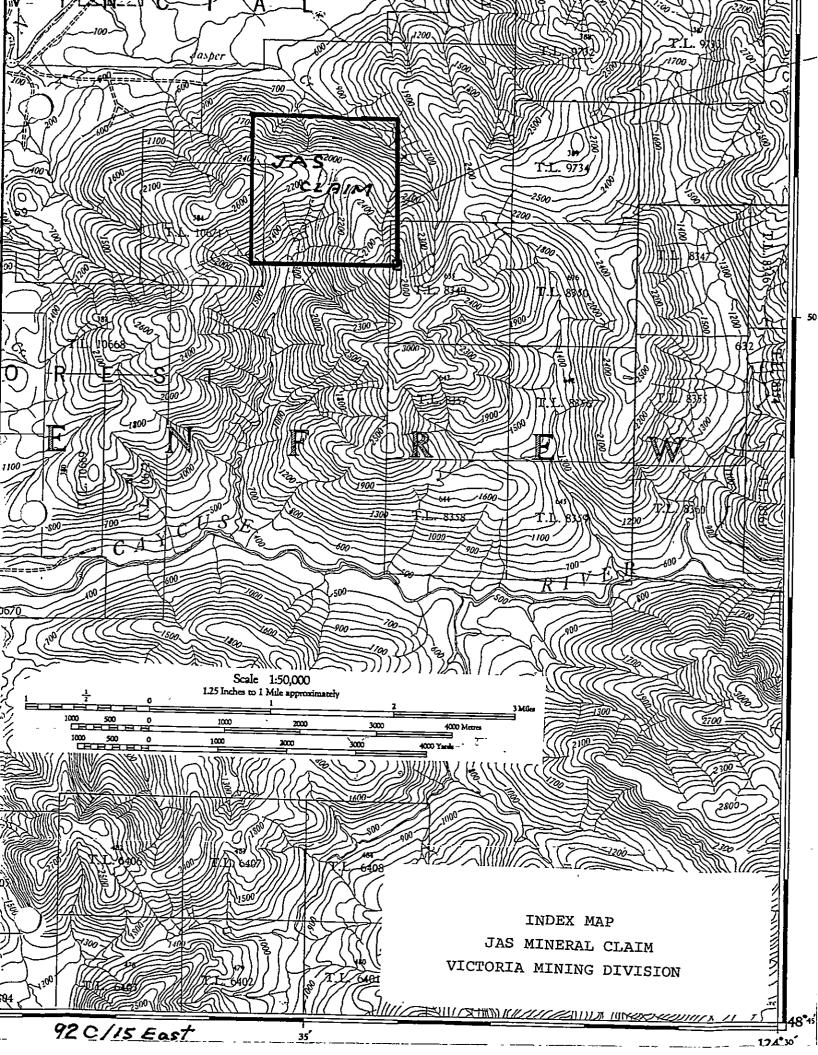
The property is serviced by logging roads and accessible from the town of Duncan in approximately one hour. The locality is steep with surface elevations up to about 3,000 feet above sea level. It is heavily forested but has been partly logged recently with. more road development and timber clearance expected in the near future.

The area covered by the JAS mineral claim has been held by Hudson Bay Exploration and Development Company Ltd. (TAM mineral claims) for the last ten years. Hudson Bay did geological, geochemical, and geophysical programs, results of which are available in various assessment reports.

CLAIMS

The JAS mineral claim, owned by Malabar Mines Ltd., is located in the Victoria Mining Division.

2.



Claim data is as follows:

ClaimRecord No.Record DateExpiry DateJAS #151513 April, 198113 April, 1982This claim is currently held in the name of R.J. Bilquist.

GEOLOGY AND MINERALIZATION

The claim appears to be underlain almost entirely by volcanic rock of the Bonanza Formation. These are largely andesites and basalts, but locally involve more acid eruptives including dacites, ashflows, and a variety of breccias.

Recent extensions of the logging road systems have revealed three styles of mineralization, namely -

1) Irregular bands and zones of massive sulphide as much as as one meter in width. These consist of pyrite and chalcopyrite with frequent concentrations of sphalerite locally with galena. A list of assays from some grab samples is included as Appendix "A". The gangue is in part quartzose, and in part a soft; black alteration product. Although the massive sulphide has been exposed by road building in only one location, mineralized float boulders have been found for considerable distances (over a kilometer) along the topographic depression which appears to mark the trace of the mineralized zone.

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- 2) A patchy stockwork of copper and zinc associated with quartz stringers exists to north of the massive sulphide depression, at least in the area where this crosses a divide. The extent of this mineralized zone is not yet known.
- 3) On the west side of the area examined, a road-cut has revealed a zone of intense pyritization and bleaching. This takes the form of alteration of volcanic rocks to little more than a clay-pyrite mixture, but there are also a number of pyrite-matrix breccias and ferruginous cemented soils (pre-glacial?) here. The breccias are multilithic and kaolinized, and may represent a form of diatreme activity, although they may also result from hot spring alteration and cementation of a pre-glacial erosion surface.

GEOCHEMISTRY

Seventy three grid-controlled soil samples were collected in the vicinity of exposures of the first two mineralization types in the vicinity of the ridge. The samples were shipped to Chemex Labs. Ltd., North Vancouver, where they were dried, pulverized to -80 mesh, and tested for copper, lead, zinc, gold, and silver. The results, see Fig. 2 and Appendix "B", showed strong anomalies in Cu, Pb, and Zn., dominately along the depression thought to

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mark the massive sulphide zones. For the most part the exposed mineralization lies at the north edge of the geochemical grid.

In addition to this, two samples from the quartz veins or silicification zones spatially associated with the depression ran 0.400 and 0.144 oz./ton gold. These zones are irregular and poorly exposed, but appear to be of sufficient size to be worth further investigation.

RECOMMENDATIONS AND CONCLUSIONS

Stage I

- The geochemical grid should be extended to include the topographic depression and the western pyritic zone. This would be accompanied by detailed prospecting.
- 2) The massive sulphide bands ought to be easily detectable by E.M., and a survey of the area is recommended. Pyritization and silicification zones involve destruction of magnitite in the basalt, and might be traced by magnetometer.
- 3) Bulk-sampling of the exposed quartz veins and of the western pyritic zone for gold-should be given priority.

<u>Stage II</u>

Contingent upon the results of Stage I above, a diamond drill program should be carried out. This would likely involve drilling a series of angled holes across any target defined.

5.

Estimated Cost

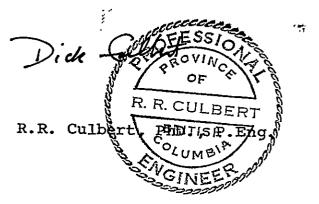
<u>Stage I</u>

Geochemical	survey, prospecting,	
E.M. survey,	, and bulk sampling	\$.25,000-

<u>Stage II</u>

Total I and II	\$ 85,000
2,000 feet @ \$30.00 per foot	60,000
Diamond drilling	

Respectfully submitted, ·



August 17, 1981

CERTIFICATION

- I, R.R. Culbert, do-hereby-certify that:
 - 1. I am a practicing Professional Geological Engineer with offices at 3155 West 12th Avenue, Vancouver, B.C.
 - I am a graduate of the University of British Columbia, B.Sc. (1964), PhD. (1971).
 - 3. I have practiced mining exploration for sixteen years, most of which were based in British Columbia.
 - 4. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
 - 5. I have personally visited the JAS property and supervised exploration work carried out there.

Respectfully aubmitted, Ride R.R. Culbert

August 17, 1981

BREAKDOWN OF COSTS (for assessment purposes)

Accommodation	\$	132.32
Truck rental		911.25
Assay (Chemex Labs.)		633.25
Groceries and meals		375.72
Office overhead - secretarial, accounting, etc.		225.00
Wages and salaries*	-	L,710.00
	\$ 3	8,987.54

* See payroll record following this page.

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APPENDIX A

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Certificate of Assay

10:	LEIGHTON, D.G. & Associates Ltd. 3155 West 12th Ave. Vancouver, B.C. V6K 2R6	Cert.# : A8111228-001-A Invoice 18111228 Date 15 - June - 81 P.O. # None Malabar Silver - JAS
		Malabar Silver - JAS

Sample	Prep	Cu	Zn	Ag (FA)	Au (FA)	Pb
Description	Code	percent	percent	oz/t	oz/t	ppm
JAS 1 R JAS 2 JAS 3 JAS 4 JAS 5 A JAS 5 B JAS 6 JAS 7 JAS 7 JAS 8 JAS 8 JAS 8 JAS 9 JAS 10 JAS 11 JAS 12	207 207 207 207 207 207 207 207 207 207	0.61 1.07 9.75 5.10 1.51 0.07 0.32 1.71 0.52 0.02 0.03 0.08 0.11 0.05 4.12	0.01 0.03 0.01 0.02 2.70 1.89 0.08 0.59 1.20 0.03 0.03 0.03 0.69 4.85 0.19 0.07	0,18 0.01 1.56 3.68 0.20 0.24 0.01 0.42 0.18 0.01 0.05 0.02 0.03 0.01 0.52	0.003 0.003 0.003 0.005 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.144 0.003 0.003	75 48 18 14 2250 77 43 300 1450 36 31 37 38 6 6

NITINAT ROCKS Grab Samples APPENDIX "B"

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GEOCHEMICAL DATA JAS CLAIM

SOIL SAMPLE RESULTS

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CERTIFICATE OF ANALYSIS

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1. TELEPHONE: (604)984-0221 TELEX: 043-52597



. ANALYTICAL CHEMISTS

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GEOCHEMISTS

REGISTERED ASSAYERS

CERT. # : A8111229-001-/

TD : LEIGHTON. D.G. & ASSOC. LTD. 3155 WEST 12TH AVE; VANCOUVER - B.C. V6K 2R6

DOM OTIOUT OF

INVOICE # : 18111229 DATE = 08-JUN-81 = NONE P.O. # MALABAR "SILVER-JAS"

CC: RDN BILQ	UIST						•
Sampte.	Ргерт	Cu	Pb	Zn	Ag Au	-[AA]	
description.	code	ppm	arqq	ppm	ppm	ppb	
JAS 1	201 :	36	6	30	0+6	<10	
JAS 2	201	76	32	100	0.2	<10	~ ~
JAS 3	201	330	14	340	0.2	<10	
JAS 4	201	4 0	4	50	0.2	<10	
JAS 5	201	32	7-	74	0.5	<10	
JAS 6	201	32	5	44	0.1	10	
JAS 7	201	56.	3	120	0+1	<10	
JAS 8	201	26	· 6	44	0.1	<10	
° JAS 9	201	80	46	90	0.4	10	
JAS 10	201	230	54	144	0.7.	<10	* -
JAS 11	201	190	330	300	1.07	10	
JAS 12	201	120	26	200	0.6	10	
() JAS 13 ⁻	201	180	17	150	0.8)	20	
JAS 14	201	46	15	70	0.2	<1.0	
JAS 15	201	74	15	134	0.1	<10	
JAS 16	201	40	8	40	0.1	<10	
· JAS 17	201	42	14	58	0.3	<10	
JAS 18.1	201	32	2	50.	0.2	<10	
JAS 19	201	22	5	64	0-1	<10	
· JAS'2D	201	56	11	120	0•4	<10	
JAS 21	201	30	10	50	0.1	<10	
JAS 22	201	4 6	6	58	0.1	<10	
JAS 23	201	132	13	122	0.3.	<10	
JAS 24	201	30	17	56	0+1	<10	
JAS 25	201	128	26	70	1.4-	<10	
JAS 26	201	70	28	106	0.3	10	
JAS 27	201	114	64	160 ·	1.3~	<10	
JAS 28	201	158	18	94	0-2	<10	
JAS 29	201	5 8	13	68	0.5	<10	
JAS 30	201	24	<u>25</u> .	56	0•Z.	<10	
JAS 31	201	70	55	66	0.3	<10	
JAS 32	201	24	14	40	0+1	<10	
JAS 33	201	26	18	60	0.1	<10	
JAS 34.	201	38	94	150	0+4	<10	
JAS 35	201	22	13	38	0.1	<10	
JAS 36	201	38	20	64	0+1	<10	
JAS 37	201	34	5	60	0.1	<10	
() JAS 38	201	50	6	50	0.1	<10	
JAS 39	201	66	5	62	0.2	10	
JAS 40	201	86		80	0+2	<10	——

HartBichler Certified by

мемвел CANADIAN TESTING ASSOCIATION



CHEMEX LABS LTD.

CERTIFICATE OF ANALYSIS

 212
 BROOKSBANK AVE.

 NORTH VANCOUVER, B.C.

 CANADA
 V7J 2C1

 TELEPHONE: (604)984-0221

 TELEX 043-52597

5

ANALYTICAL CHEMISTS

TO : LEIGHTON, D.G. & ASSDC. LTD.

3155 WEST 12TH AVE:

VANCOUVER. B.C.

V5K 2R6

• GEOCHEMISTS

REGISTERED ASSAYERS

CERT. # = A8111229-002-A INVDICE # = I8111229 DATE = 08-JUN-81 P.O. # = NONE MALABAR SILVER-JAS .

CC: RDN.BILC	UIST						•
Sampte	Prep	Ľu	Pb	Zn	Ασ Αι	-(AA)	
description	- code	ppm	ppm	mqq	ppm	ppb	
JAS 41	201	10	11	20	0.1	<10	
JAS 42	201	32	13	58	0.2	<10	
JAS-43	201	18	14	42	0.3	<10	
JAS 44	201	22	12	50	0.2	<10	
JAS 45.	201	28	12	52	0.1	<10	
JAS 46	201	12	3	20	0.1	<10	
. JAS 47	201	58	17	80	0.1	<10	
JAS 48	201	42 _	13	160	0.1.	<10	
JAS 49	201	42	25	250	0.2	<10	
JAS 50	201	16	9	40	0.1	<10	
JAS 51	201	34	12	54	0.1	<10	
JAS 52	201	34	4	90	0.1	<10	
(), JAS ⁻ 53	201 -	74	25	180	0.2	<10	
\smile Jas 54	201	52	7	144	0.1	10	
JAS 55	201	32	17	60	0.1	<10	
JAS 56	201	48	7	42	0.1	<10	
· JAS 57	201	48	3	108	0.1	10	
JAS 58	201 -	20	5	240	0.1	<10	
JAS 59	201 '	114	37	1400	0.1	<10	
JAS 60	201	26	11	56	0.2	<10	
JAS 61	201	42	8	88	0.1	<10	
JAS 62	201	48	12	144	0.3	<10	
JAS 63	201	38	13	52 `	0.2	<10	
JAS 64	201	24	24	34	0+1	<1-0	
JAS 65	201	54	14	100	0.2	<10	
JAS 66	201	20	34	50	0.1	<10	
JAS 67	201	112	16	122	0-1	10	
JAS 68	201	36	7	48	0.1	<10	
JAS 69	201	110	20	120	1.04	<10	
JAS 70	201	132	23	104	0-1	<10	
JAS 71	201	46	14	72	0.1	<10	
JAS 72	201	26	5	64	0.1	10	
JAS 73	201	350	11	200	0.1	<10	

MEMBER CANADIAN TESTING ASSOCIATION Certified by HartBichler

