

BC Geological Survey Assessment Report 38921



Ministry of Energy and Mines BC Geological Survey Assessment Report Title Page and Summary

TYPE OF REPORT (1799 of aurvoy(s)): Technical Repo	ort Geoch	emical ¹⁰	TAL COST:	\$2,050
AUTHOR(9): Dean Michael Arbic			Doan	an
NOTICE OF WORK PERMIT NUMBER(S)DATE(S):			YE	AR OF WERK: 201
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CLAIM NAME(8) (on which the work was donol: 1064974 1029160	573881	955489	10507	75
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Dean Michael Arbic	²⁹			
MAJUMO ADDRESS: Po Box 415 Lake				
Cowichan BC Vor2G0				
OPERATOR(8) (who paid for the work):				
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MAILING ADDRESS:				
<u>-</u>				
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PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, strue Hydrothermal Copper Chalco	opyrite Go	old Silver	rIron	
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Other			
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Petrographic			
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PROSPECTINO (posta, trea)			
PREPARATORY / PHYSICAL			
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Topographic/Photogrammatric (scale, area)			
Legal surveys (scale, are a)			
Road, local access (luliconstruct)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST.	\$2,050.00
		IOTAL CUET:	42,030.00

Comparing Metallic Ores of the Cowichan Valley

Victoria Mining District

092F, 092C

UTM Co-ordinates

396033E 5430484N

Owner of Claims is Dean Arbic (FMC#133434)

Report Written by Dean Arbic

Work Performed and Supervised by Dean Arbic And Bureau Veritas (Acme) Labs

Event Numbers

5423288

Report Date; August 21 2019

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Introduction and Claim Location and Geological History

The sample assayed in this report is from a claim group in the Cowichan Valley. Each group is denoted by a letter, Group E is located up Shaw Creek North Mainline.

All of the samples assayed in this report were at least 20% Iron and 200 grams per ton Copper. They are local examples of Chalcopyrite and Pyrite mineralizations on claims owned by the author of this report.

The objective of the report was to find precious metal values and study where they occur in sulphide minerals like pyrites. And to gather further information on the composition and value and extent of copper deposits in the area. This was done by cutting and viewing many samples from the claims and selecting the samples to be assayed by how they appear when magnified.

"Group E"

The Group E sample is from a Red Jasper Deposit up the North Shaw mainline. The claim is accessed by driving west on NorthShore Road 23 kilometers to the Shaw Creek mainline and driving over the bridge and turning on the Shaw North Mainline the driving north 10 kilometers then turn right for another 3 kilometers to a trail to the Jasper site.

The area is underlain by rocks of the Early to Middle Jurassic Island Plutonic Suite which intrude Upper Devonian McLaughlin Ridge Formation (Sicker Group) mafic volcanics and Mississippian to Pennsylvanian Fourth Lake Formation (Buttle Lake Group) ribbon cherts and crinoidal limestone.

Rhodonite and jasper occur in lenticular masses in cherts and cherty tuffs of the Lower Mississippian Shaw Creek Member (dated by conodonts, Personal Communication - Nick Massey, 1991) with associated rhodocrosite and spessartine. Disseminated pyrite and chalcopyrite occur in quartz veins associated with diorite. Rhodonite development is restricted to areas of very dark ribbon chert which may be cut by major faults. Chert occurs in the general vicinity of Island Plutonic Suite intrusives and major faults. The #08-E sample is from a small lens of chalcopyrite and magnetite in the Jasper.

Technical Work Description

Based on the physical appearance of mettalic ores from four sites on different claims in the Cowichan valley. Seven samples were sent to an Assaying Lab. for Geochemical Analysis. Two each from three sites and one from the fourth site.

Prior exploration with hand tools provided many mettalic samples. Further analysis with hand tools was used to remove rock chip pieces from larger chunks of bedrock. These were from outcroppings that were packaged up and hiked out from the sample sites. Pieces were cut with a homemade rock saw and studied under a microscope at 10X and 30X magnification. Many samples were examined, and seven were chosen for Geochemical analysis based on the physical appearance of the sliced and polished metallic blebs from large hard rock chip samples.

Chips containing certain visible blebs of metal were packaged up and labeled and weighed and sent by mail to the laboratory in Vancouver BC.

Sample ID # Weight Grams GPS Co-ordinates Description

Sample 08-E 43g 396033E 5430484N Magneitite and Chalcopyrite and Quartz in Jasper

After the samples arrived at the Lab in Vancouver they were pulverized to 85% passing of 200 mesh. Then it was analyzed for Au Pd Pt by Fire Assay Fusion in an ICP-ES. Then a 1:1:1 Aqua Regia wet digestion and ICP-ES analysis.

Equipment and Tools Used

Samples were sliced for identification with a Homemade Rock Chop saw with a 12 Amp AC electric motor turning a nine inch diamond carbide blade.

Slices were polished to 800 grit with a hand held household wood electric sander with automotive wet sandpaper starting at 150 grit to 200 to 400 to 600 to 800.

Report Written on a Lenovo Idea Pad laptop Computer with Apache Open Office 4.1.1 and photos labeled by Windows Paint Program and Acrobat Adobe Reader

Photography by Anita Genovese Arbic using a Sony Cyber-shot 16.1 mp digital camera.

Webcam was used to take microscopic pictures.

Hand tools for crushing; Hammer and anvil, a Magellan Explorist 100 GPS device was used to record the sample location. A Gem Diamond Grader brand Bifocular/Stereoscopic Microscope of 10X and 30X magnification was used for photography and sample selection and identification.

Metal detector is a Outbound hand held recreational metal detector running on 9 volt DC batteries.

Qualifications

Dean Arbic has a grade 12 Education from Erindale Secondary in Mississauga Ont, and many years field work prospecting.

References

Site "A"

MINFILE No 092C 126

Site "B"

MINFILE No 092C 039

Site "D"

MINFILE No 092C 086

MINFILE No 092C 046

Site "E"

MINFILE No 092C 113

Conclusions and Interpretations

Sample #08-E is from a known Jasper Magnetite deposit that has been speculated would carry gold values at the contacts with other minerals like Pyrhhotite. I sampled a small lense of Chalcopyrite with Magnetite in Jasper with Quartz contacting Basalt. To my delight there are traces of Gold at 120 ppb, lots of Copper at 2225 grams per ton. A trace of Silver at 2.7 grams per ton. 23.58% Iron and some Molybdenum at 68 grams per ton. Lots of Arsenic at 117 grams per ton so more Gold is possible.

My final conclusion is that this area namely the cowichan valley is very rich in metallic mineral deposits, the ones sampled in this report were relatively easy to find due to the excessive staining that occurs years after road work or previous exploration. Even though the gold values were quite low for all samples, I am optimistic that every sample assayed contained traces of gold and most contained palladium.

This is optimistic because even if the concentrations arent high in gold it confirms that there are the mineralizing environments necessary for gold formations. With many types and mechanisms there could be extremely rich Gold supergene deposits. And confirming that there is evidence to believe there is a broader scope to the seemingly sporadic areas of auriferous minerals. But consistent copper silver and iron values. And confirming the ability to see differing appearances in metallic composition under simple geological bifocular microscopes especially to identify copper associated minerals.

More attention needs to payed to small gold silver copper iron veins in this area. A test milling and pilot plant could be profitable if further assaying confirms gold and copper values across large areas of the McKay and Hauk and Robertson claims even if small veins over a kilometer apart are targeted for further assays and test milled together. Mining many small rich veins could be a low impact way to profit from these precious metal occurrences for a small junior company. If small simple Froth flotation pilot plants recover enough Copper and other Noble metals. It could be a valuable place for small scale exploratory recovery projects.

Anyone of these showings could be a pathfinder to a larger deposits due to the evidence at the surface of large faults and folds.

Statement of Work and Cost

Statement of Work and Cost for MTO Events 57432881 Assay	= \$2050.00
Total Technical Work	\$2050.00

The preparatory work was done from Feb 17 2019 to May 28 2019.

The Samples arrived at the lab on May 29 2019 and the Assays were completed on June 11 2019

The work consisted of:

Sample Preparation: Cutting Slices with saw 2 hours\$400
Polishing slices to 800 grit 2 hours\$400
Crushing and weighing and labeling 2.5 hours\$450
Saw Maintenance, Power and mineral oil\$25
Microscopic Analysis and Photography 3 hours\$450
Report writing 5 hours\$135
Assay Costs, Packaging, Postage Delivery\$190
Total Technical Work\$2,050
I Dean Arbic Declare this to be True and CorrectAug 21 2019



MINERAL LABORATORIES
VEHITAS Canida

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Bureau Ventas Commodities Canada Ltd.

9050 Shaughnessy St. Vancouver British Cultumbia V6P 6E5 Canada PHONE (604) 253-3158

Client: Arbic, Dean P.O. Box 415 212 Kwassin Cresent

Lake Cowichon Buttish Columbia VOR 256 Canada

Submitted By: Dean Arok Receiving Lab: Received. May 29, 2019 Report Date: Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN19001245.1

CLIENT JOB INF	ORMATION	SAMPLEP	REPARATION	AND ANALYTICAL PROCEDURES			
Project Shipment ID:	GOLDSTAR19	Procedure Code	Number of Samples	Code Decoription	Yest Wat (p)	Report Status	Lab
P.O. Number	80X41S	EATO1	1	Batch Charge of CO samples			VAN
tumber of Samples:	8	PUL85		Pulverize to 85% passing 200 mesh			VAN
		FA330	8	Fire about Nason Au Pt Pd by ICP -68	30	Completed	VAN
SAMPLE DISPOS	IAZ	ENOGE	8	Environmental disposal charge-Fire assay lead waste			VAN
	AMPLE DISPUSAL		8	1:1:1 Adria Regia digestion ICP-ES analysis	0.5	Completed	VAN
DISP-PLP D	spose of Pulp After 90 days						

ADDITIONAL COMMENTS

Bureau Veritas does mot acrept responsibility for samples lieft at the Mbovaphy after 90 days without inforwritten instructions for sample storage or return.

Invoice To:

Arbic, Dean P.O. Box 415 212 Kwassin Cresent

Lake Cowichan British Columbia VOR 2G0

Canada

CC:



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Client:

Arbic, Dean P.O. Box 415 212 Kwassin Cresent Lake Cowichan British Columbia VDR 2G0 Canada

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Report Date: June 11, 2019

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158											Page:		2 of 2	2				Pa	rt: 1	of 2
CERTIFICATE OF ANALYSIS VAN19001245.															.1					
Method	FA330	FA330	FA330	AQ300	AG300	AQ300	AQ300	AG300	AQ300	AQ300	AG300	AQ300	A@300	AQ300	AQ300	A@300	AQ300	AQ300	AQ300	AQ300
Analyte	Au	Pt	Pd	Mo	Cu	Pb	Zn	Ag	N	Co	Mn	Fe	AG	Th	81	Cd	8b	В	V	Ca
Unit	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	96							
MDL	2	3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.6	3	3	1	0.01
08-E Rock Chip	120	<3	<2	68	2225	11	26	2.7	95	208	394	25.38	117	<2	2	<0.5	<3	5	61	0.08

MINERAL LABORATORIES Canada

Client

Report Date:

Arbic, Dean P.O. Box 415

June 11, 2019

212 Kwassin Cresent

Lake Cowichan British Columbia VCR 2GD Canada

Part: 2 of 2

GOLDSTAR 19

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Page 2 of 2

VAN19001245.1 CERTIFICATE OF ANALYSIS AG300 La Cr Ba Ho Mg П Na К ppm 1 0.001 ppm 2 ppm 1 дрт 20 ppm Ce-E Rock Chip 0.032 2 16 0.73 7 8.021 <20 1.59 <0.01 <0.01 <2 >10 <1 <5 <5

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Client

Project

Report Date:

GOLDSTAR19

June 11, 2019

Arbic, Dean P.O. Box 415 212 Mwassin Cresent Lake Cowichan British Columbia VSR 258 Canada

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St. Vancouver British Columbia VôP 6E5 Canada PHONE (604) 253-3158

Part: 1 of 2

QUALITY C	ONTROL	REP	POR	T												VA	N19	001	245	.1	
	Method Analyte	FA330	FA330	F/330 Pd	AQ300 Mo	AQ300 Cu	AQ300 Pb	AGSSSS Zn	AG300 Ag	AGS00 NI	AQ300 Co	AGS00 Mn	AQ300	AQ300 Ac	AGS00 Th	AG300 3r	AQ300 Cd	AQ300 8b	AG300)	AQ300	AQ30
	Itel	990	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	*	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	MOL		3	2	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.6	. 3	3	1_	0.01
Pulo Duokates																					
01 - A	Rock Chp	1165	<3	<2	48	3829	<3	21	19.9	50	535	137	32.28	18	<2	3	<0.5	<3	8	44	0.09
REP 01-A	20				48	3820	3	21	19.6	-9	533	138	32.48	17	<2	3	<0.5	<3	9	44	0.05
05-C	Rock Chip	5	<3	2	- 1	16	<3	8	€0.3	- 6	3	203	0.58	2	<2	240	<0.5	<3	<3	17	2.40
REP 66-C	20	8	4	<2																	
Reference Materials																					
STD DS11	Standard				14	142	134	325	1.6	73	12	999	3.07	42	7	55	2.0	6	10	47	1.02
STD OREAS252	D'aconat 2				<1	115	56	150	0.4	53	25	542	3.42	37	9	36	<0.5	<3	<3	22	297
8TD PO35	Standard	517	428	605	_																
STD PG04	Standard	996	933	1237																	
STD DS11 Expected					13.9	156	138	345	1.7 1	81.9	14.2	1055	3 2092	42.8	7.65	57.3	2.37	7.2	12.2	50	1.063
STO GREALING Expense						118	56	154	0.45	52	26.9	530	3.284	35.8	9.33	35	0.51	3.3.3		22.5	259
STD PD3S Expeded		519	±30	595																	
STD PGO# Expected		995	910	1210																	
ECK	Blank				<1	<1	<3	<5	<0.3	<1	<1	<2	≪0,01	<2	<2	<1	<0.5	< 3	⊀3	<1	<0.01
EUK	⊇tanit.	4	<3	<2	·	·		·	·			·	·		·			·	·		
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Client

Report Date:

GOLDSTAR19

June 11, 2019

Arbic, Dean P.O. Box 415 212 Minoschi Cresent Lake Cowlchan British Columbia VDR 258 Canada

Part: 2 or 2

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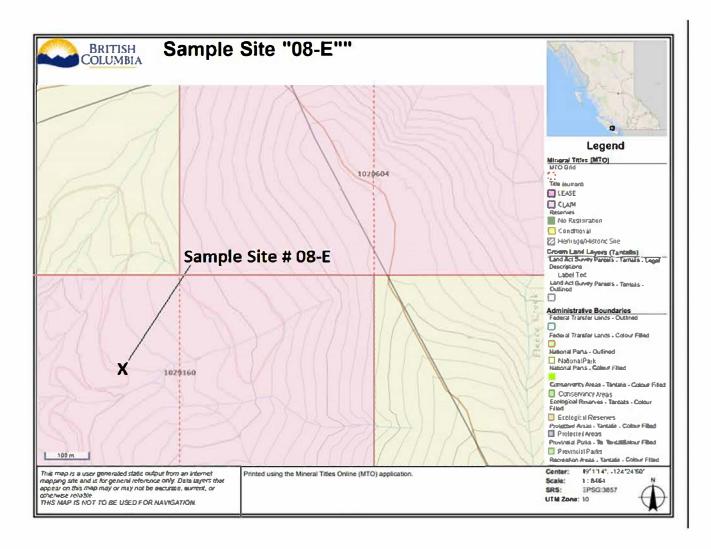
1 of 1

QUALITY C	ONTROL	REF	POR	T												VA	N19
	Metrod	AQ300	AQ380	AQ200	ACCO	AQ300	AQ300	A02300	AG:300	AQ300	AQ340	AQ300	AQ300	AGGOO	AQ300	AQ300	A (200)
	Analyte	P	La	Cr	Mg	Ba	π	В	Al	Na	K	W	8	Họ	π	Ga	80
	unet	%	9901	ppm	%	ppm	%	9901	%	*	*	ppm	%	ppm	9901	ppm	ppn
	MOL	0.001	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.06	1	6	6	
Pub Dupleses																	
01-A	Rock Chip	0.023	_ :	8	0.14	5		<20	0.47	10.0>	<0,01	<2	>10	<1	<\$	12	≺!
REP 01-A	cc	0.023	2	10	0.14	7	0.031	<20	0.47	10.0	<0.01	<2	>10	<1	<\$	12	<
€ + C	Rack Chip	0.034	<1	8	0.18	55	0.042	<20	3.22	0.31	0,04	<2	0,18	<1	<5	- 9	4
REP 05-C	cc																
Reference Materials																	
STD D611	Stanoard .	0.078	16	60	0.83	423	0.092	<20	1.14	0.07	0.29	2	0.27	<1	<\$	<5	<
STD OREAS2S2	Standard	0.043	17	47	1.22	296	0.003	<20	1.37	0.07	0.23	<2	0.26	<1	<5	<5	<
STD P005	Standard																
STD PGG#	Standard																
STD DG11 Expedied		0.0701	18.5	61.5	QES	417	0.0976	6	1.1 29	0.0594	0.4	2.9	0.2635	0.3	4,9	4.7	3.
SID OCCASION Brooms		0.04	15.9	41,7	1,17	248	0.003		1.204	6.671	0.312		0.253			3.73	3.2-
STD PD05 Big edted																	
STD PG64 Expected																	
BLK	5lank	<0.001	≺1	<\$	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	⊘ Ω€	<1	<\$	≺ 5	<
BLK	Siant																
Prep III'ash																	
ROCK-VAN	Pres Blank	0.022	4	5	0.70	51	0.077	<20	1.19	0.09	0.09	<2	0.07	<1	<5	5	<

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General Location Map of Sample Sites in the Cowichan Valley





Detail of Sample 08-E Map with Assay Data

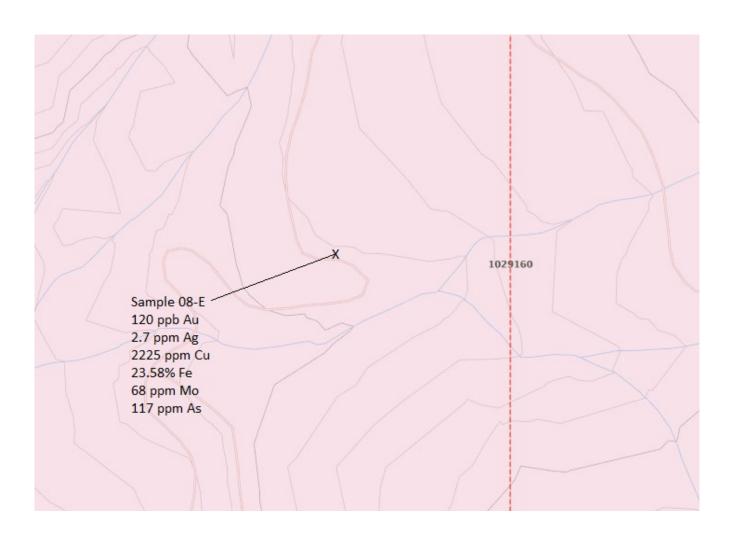
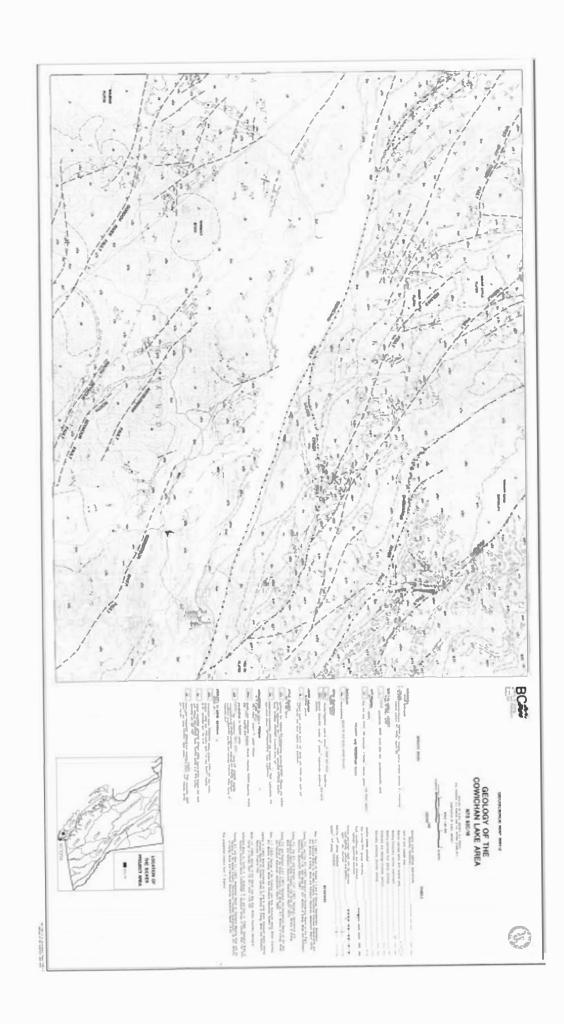


Table for Claim Description

Title Number	Claim Name/Property	Issue Date	Good To Date	To	# of Days For- ward	in Ha	Applied Work Value	Sub- mission Fee
1020604	FORTUNE	2013/JUN/28	2020/MAR/19	2021/aug/13	512	42.37	\$ 1129.56	\$ 0.00
1029160	BAPTISMAL	2014/JUN/23	2020/MAR/20	2021/aug/13	511	42.37	\$ 918.94	\$ 0.00

these claims are owned by Dean Arbic.



Sample 08-E

