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BLUE GULCE EXPLORATIONS LTD. (N.P.L.) Allison Lake Project Princeton Area, B.C.

ALPAR ENGINEERING LTD.

December 12, 1969

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ALRAE ENGINEERING LTD. VANCOUVER, B.C. ENGINEERS & GEOLOGISTS

TABLE OF CONTENTS

Page

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INTRODUCTION	-	•	*	ą	#		•	•	1
LOCATION AND ACCESS		•	*	*	•	•	•	•	1
CLAIMS	*	4	•		•	•		•	1
GEOLOGY	¥		¥		•		•	*	2
CONCLUSIONS AND RECOMMENDATIONS	٠	•	•		*	•	*	•	3
COST ESTIMATE	•	•	*			*	•	•	4
CERTIFICATE		4	4		4				5

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INTRODUCTION

The Blue Gulch Explorations Ltd. claims are currently being explored for copper mineralization and preliminary diamond drilling of one selected area is in progress. During the period October to December, the writer has, on three occasions, visited the project and generally directed the diamond drilling program to conform with recommendations made by the late Dr. Skerl. Three diamond drill holes have been laid out to test a strong geochemical soil anomaly for copper and the first drill hole has just been completed. Surface trenches in the immediate area of the drilling exposed intervals containing .2 to .37 per cent copper across widths of 160 and 150 feet respectively.

LOCATION AND ACCESS

The company's claims are located approximately 16 miles porth of Princeton, B.C. and include Allison Lake. The bighway from Marritt to Princeton passes through the claim group as does electric, telephone and natural gas transmission facilities. The claims are readily accessible by automobile from Vancouver and Princeton. Numerous logging roads through the claims provide access to the ourrent drilling area and much of the southern and eastern portion of the claim block.

CLAIMS

Claims, their record numbers, and expiry dates, are as follows:

Claim Name	Record Number	Expiry Date
Pine 1-16, 17 Fr.,		Contraction of the second s
18 Fr., 19-35	22615 - 22648	June 18, 1976
Reg 1 - 16	23526 - 23541	Sept. 26, 1976
Dy 1 - 9	23542 - 23549	Sept. 26, 1970

All 59 claims are within the Similkameen Mining Division.

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GEOLOGY

As indicated by Geological Survey of Canada Memoir 243, general geology underlying the Blue Gulch claims may be described as follows: The area immediately east of Allison Lake is underlain by Jurassic Coast Intrusives composed mainly of coarse grained, reddish monsonite, granite, and granodiorite. in contact with Triessic Micola volcanics and sediments. Dykes of diorite and felsite porphyry cut through both of these rock types in the vicinity of copper mineralisation being explored by the company.

- 2

A regional fault trending northerly from the Copper Mountain Intrusive passes along the east side of Allison Lake. This is a major structural feature of the district and is a fault zone over one hundred feet in width where exposed at the south end of Allison Lake. The fault gouge is extremely crushed and broken and weathered to a gossan-like material. Fracturing and subsidiary faults probably related to this major structural feature are evident in the drilling area which is immediately to the east of the fault zone. Chloritization is particularly evident in the diorite dyke and along smaller shear zones within the granitic rocks. Fracture planes within the dykes are commonly filled with narrow veinlets of calcite.

Geochemical soil sampling and bulldozer trenching indicates the presence of copper mineralization in the area currently under study. Chip sampling of bulldozer trench walls in semi-weathered bedrock surface has indicated a 160 foot width of 0.20% copper, 140 feet of 0.19% copper, and 150 feet of 0.37% copper. These trenches are within an area 900 feet long and 200 to 300 feet wide. Drilling is currently in progress to test the downward extension of this mineralized zone. The first hole is just completed and samples have been submitted for assay. Visual inspection of the core indicates the zone has not been cut by this first drill hole and the second drill hole has been placed to examine the possibility that the

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mineralization may be dipping to the southeast, somewhat parallel to the first hole.

10 - 5 m

The soil sampling anomaly in the vicinity of this mineralisation extends over an area 1,000 feet by 200 to 300 feet in width, elongate approximately downslope, although the anomalous area is bisected by a small steep-sided stream gulley. Significant anomalous copper content in soil extends a further 800 feet to the northwest of the present drilling area. All mineralization encountered to date consists of pyrite and chalcopyrite in disseminations and fracture fillings within highly altered and broken monzonite. Chalcopyrite content is increased in the most chloritic alteration zones.

CONCLUSIONS AND RECOMMENDATIONS

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Copper mineralization encountered on the Blue Gulch Explorations Ltd. claims in the Princeton area, B.C. is in a favourable geological setting for a large, low grade type of deposit. A mineralized area of significant size has been indicated by geochemical soil sampling for copper. Surface bulldoser trenching has exposed copper mineralization of significant grades and drilling is currently under way to test the downward extension of this zone.

To further the evaluation of the claims and the mineralized zone under study, the following work is recommended:

- (a) Topographic base map preparation from existing aerophotos;
- (b) Detailed magnetometer survey in the drilling area:
- (c) Geological mapping in detail of the drilling area and of the remainder of the claim group:
- (d) Stream sediment soil sampling of the drainage systems throughout the claims area:
- (e) Line cutting and geochemical soil sampling in anomalous areas indicated by the stream sediments sampling:
- (f) Induced polarization survey of selected anomalous areas from the above soll surveys:

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CERTIFICATE

- 5 ---

I, Pae G. Jury, of the City of Vancouver, British Columbia, do hereby certify that:

- 1. I am a consulting geological engineer.
- I am a graduate of Queen's University in Kingston (B.Sc. in Geological Sciences, 1957).
- 3. I am a registered Professional Engineer of the Provinces of British Columbia and Ontario and also a member of the Canadian Institute of Mining & Metallurgy.
- I have practiced my profession since 1957 with Labrador Mining & Exploration Company, Quemont Mining Corporation, Canadian Johns-Manville Co. Ltd., and Alrae Engineering Ltd.
- 5. I have personally visited the Blue Gulch project on three occasions during November and December of 1959 and have examined surface geological features and diamond drill core during that time.
- 6. I have examined some of the key claim locations and have found them to be located in accordance with the B.C. Mineral Act. Many of the claims have been located on the grid map in the vicinity of the drilling and there is no apparent contravention with other claims in the area.
- 7. I have not received, nor do I expect to receive, any interest, either directly or indirectly, in the properties or securities of Blue Gulch Exploration Ltd.

DATED AT VANCOUVER, this 12th day of December, A.D. 1969.

Kao Gary

Rae C. Jury, P. Eng.

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ALRAE ENGINEERING LTD. VANCOUVER, B.C. Engineers & geologists ALRAE ENGINEERING LTD. 844 WEST HASTINGS STREET, VANCOUVER, B.C.

TELEPHONE 681-9381 · TELEX No. 04-50604

February 3, 1969

Mr. F. Hoffman Blue Gulch Exploration Ltd. 400 West 5th Avenue Vancouver 10, B. C.

Dear Mr. Hoffman:

Enclosed please find two copies of each of drill holes 1, 2 and 3, recently completed at your Allison Lake project, Princeton, B.C. One copy of each is being forwarded to T. Doubt, at his request.

Although short mineralized sections were encountered in the drill holes, no large intervals of .5% copper equivalent were cut. Wide zones of relatively low copper content exposed in surface trenches apparently do not extend to depth.

Hole 2 was drilled in the opposite direction, and toward, holes 1 and 3 to examine the possibility of the mineralization dipping to the south.

Mineralization encountered in the trenches is sufficiently concentrated to produce the surface geochemical survey anomaly. Underlying sulphide content is, however, lower and could only be thoroughly tested by drilling. Geological setting of this mineralization is typical of the large low grade type of deposit and it is entirely possible that more continuous zones of mineralization may occur elsewhere within the claim group. Exploration, as indicated in my report of December 12th, should serve to test the remainder of the claim group.

Yours truly,

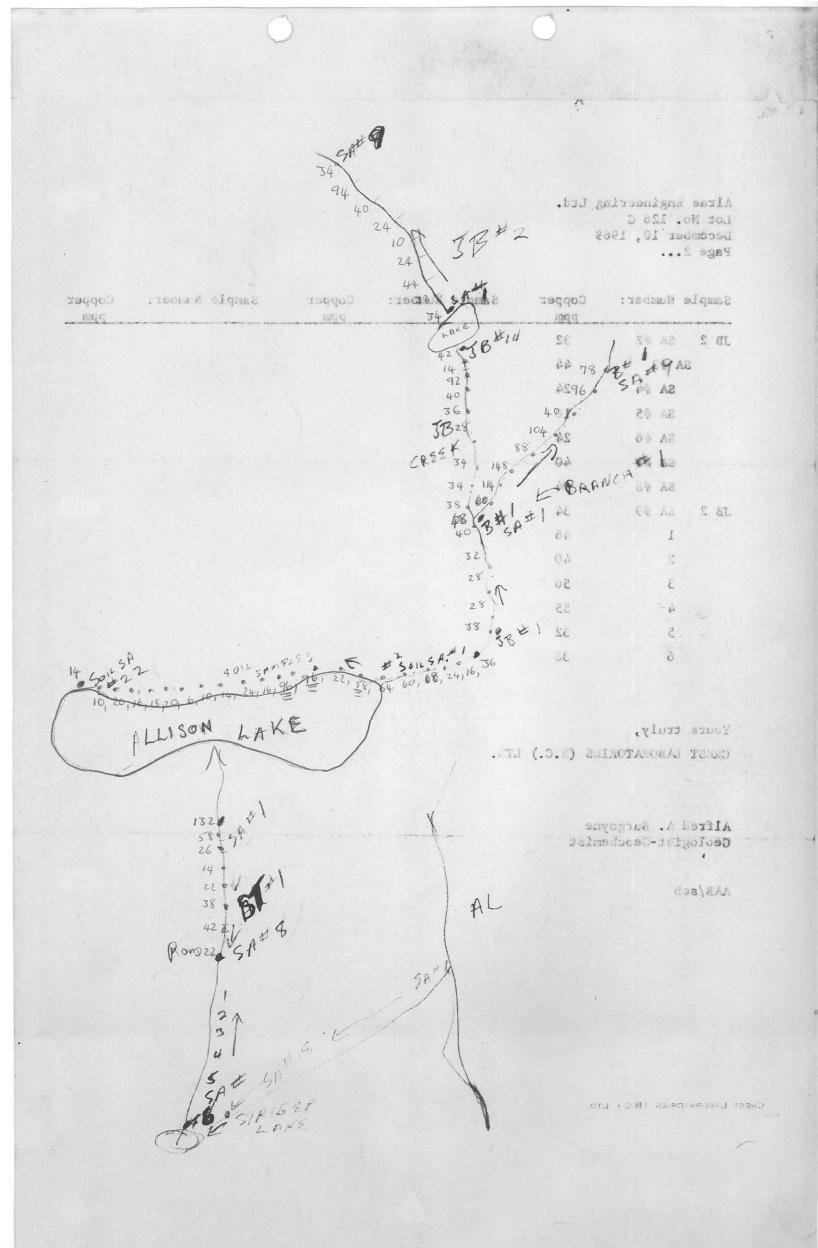
ALRAE ENGINEERING LTD.

Kar & Jury

Rae G. Jury P. Eng.

RGJ/ph

Encl.



PHONE: 685-5821

File #306611

CERTIFICATE OF ASSAY

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

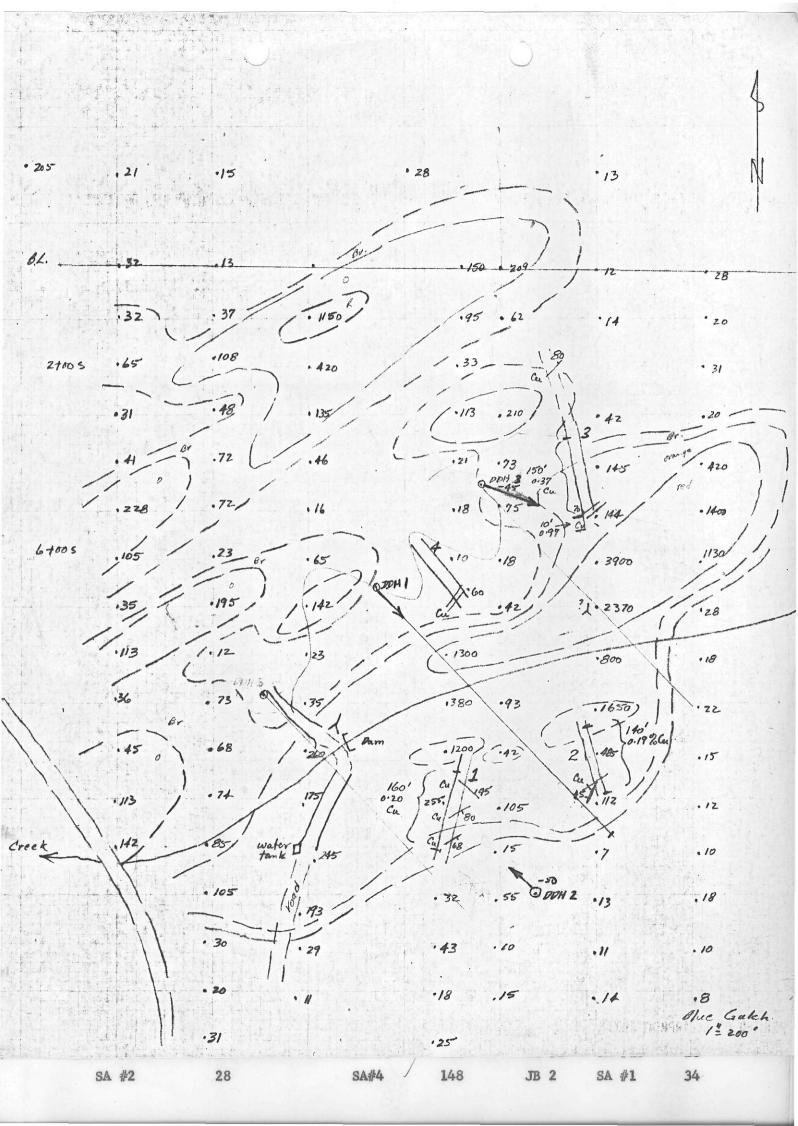
J Herein Certify that the following are the results of assays made by me upon samples of ORE herein described and received from M^r. T. DOUBT ORE

MARKED	GO	LD	SII	LVER	Сорр	er			2	
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	
e		\$		\$		\$		\$		
N/M	0.005		0.05		0.55					
										5 3
	5						21			
						1		2		
	2									
							2			
				0						
									1	
		6								
							×	9		

Gold calculated at \$_____per ounce. Silver calculated at_____cents per ounce.

NOTE—Pulps of Samples retained 2 months from date of Receipt. Rejects 1 week unless otherwise instructed.

Calculated at	cents per lb.
Calculated at	cents per lb.
Calculated at	cents per lb.
Anoa	Provincial Assayer.



Alrae Engineering Ltd. Lot No. 126 G December 10, 1969 Page 2...

Sample	Number:	Copper ppm	Sample Number:	Copper ppm	Sample Number:	Copper ppm
JB 2	SA #2	32	Cade Bull			
S	A #3	44	- 67 -			
	SA #4	24				
	SA #5	10	and the stand of the			
	SA #6	24) St			
	SA #7	40	73290			
	SA #8	94	19.1.			
JB 2	SA #9	34	a talan a sa			
for and	1	46				
	2	40				
	3	50				
	4	55	P			
	5	32	5 .2			
	6 .	38	1 - A 2 116 2 12	> 230		4.5
			100			S allow

Yours truly, CREST LABORATORIES (B.C.) LTD.

JA

Alfred A. Burgoyne Geologist-Geochemist

AAB/seb

