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JERICO MINES, LTD.

PROGRESS REPORT TO FEBRUARY 1st, 1965

March 10, 1965

Alrae Exploration Ltd.  
1198 W. Pender Street,  
Vancouver 1, B. C.

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## INTRODUCTION

During the past year and a half work has continued without interruption on the Jericho Mines Ltd. claims in the Highland Valley area.

This work has consisted of geophysical investigation of a small portion of the claims, diamond drilling, and an adit entry to explore and develop indicated copper ore bodies.

Camp facilities have been improved and enlarged during this program. A complete and self-contained camp capable of accommodating seventeen men is adjacent to the Highland Valley road and on the Jericho claims.

## LOCATION

The Jericho group of 169 claims and fractions covers a block of ground approximately two miles by six miles extending southwesterly from the junction of the Highland Valley road with the Merritt-Savona road. The claims are then approximately 36 miles southeast of Ashcroft, B. C. by road. The Bethlehem Mine is six miles to the northwest and the Craigmont Mine is 17 miles to the south.

Companies actively exploring adjacent

claims are the Anaconda Copper Corporation, Giza Mines, Ltd., Copper Ridge Mines, Ltd., and Chataway Mines, Ltd.

SUMMARY OF WORK COMPLETED

Since the Supplementary Report of April 15th, 1964, the following work has been completed;

- (1) Test hole sampling of the upper adit walls.
- (2) 13,659 feet of B.X. wireline diamond drilling in 33 drill holes.
- (3) Extension of the Induced Polarization Survey to the east.
- (4) Plane table mapping of geology and topography in the vicinity of the ore zones.
- (5) Mapping of the location of all claims and the addition of fractions on open ground.
- (6) Reconnaissance geology of the claims.
- (7) Additional construction and improvements to the mine camp and access road.
- (8) 467 feet of 9 x 9 adit approximately 490 feet lower in elevation than the upper or first adit. (Advance as of February 1st, 1965)

Target of this adit is the ore zone indicated by surface diamond drilling. It is anticipated that this ore zone will be intersected

at 2275 feet in the adit.

### GEOLOGY

The area of the claims tested by adits and diamond drilling is entirely underlain by Jurassic Guichon granodiorite. This is a medium grained, light grey granitic rock often very fresh and unaltered.

Alteration zones (sericite, calcite, and chlorite) are mainly associated with faulting and fracturing. Mineralization (chalcocite and bornite) occurs disseminated throughout many of these altered zones and along faults and fractures.

Quartz stringers up to eight inches wide containing bornite and chalcocite appear to be unrelated to the alteration zones and often cut through fresh unaltered and unmineralized granodiorite.

Two very large fault zones have been determined by work to date. These faults strike  $N.60^{\circ}E$  and  $N35^{\circ}E$  and dip steeply to the northwest. Both faults bear evidence of mineralization. An indicated ore zone adjacent to the  $N60^{\circ}E$  fault strikes easterly and dips steeply to the north.

The most heavily mineralized small stringers and shear zones encountered in the lower adit have a similar attitude.

The broad fault zone (N35°E) encountered at the beginning of the lower adit contained chalcopyrite and bornite in massive rounded pieces up to four inches in diameter. This material occurred in an 18 inch wide gouge. Smaller adjacent and parallel gouge seams contained occasional traces of sulphide mineralization. Although this mineralization is uneconomical in itself it does indicate copper minerals to be present in the vicinity. The relationship of the period mineralization and the periods of faulting is as yet undetermined.

#### RECOMMENDED WORK

With completion of the lower adit at approximately 2300 feet the following program will be necessary:

- (a) A 5 x 6 foot raise to surface for safety and ventilation and to help determine grade and dilution of the ore zone.
- (b) Underground diamond drilling (B.X. wireline) to test the indicated ore zone below

the adit level.

(c) Diamond drilling of other mineralized zones encountered in driving the lower adit.

(d) Approximately 500 feet of 5 x 7 ft. drift on the ore zone target when encountered in the adit.

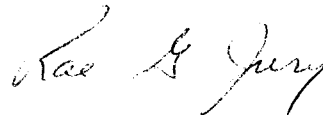
COST ESTIMATE

The approximate cost of the work indicated above is as follows:

Raising	\$ 20,000
Diamond Drilling	15,000
Drifting	<u>25,000</u>
Total	\$ 60,000

It will be noted that these costs do not include the camp operation and maintenance or supervision.

Respectfully submitted



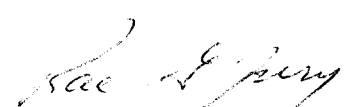
R. Jury, P. Eng.

CERTIFICATE

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

1. I am a consulting geological engineer.
2. I am a graduate of Queens 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 junior member of the Canadian Institute of Mining and Metallurgy.
4. I have practised my profession since 1957 with Labrador Mining and Exploration Company, Quemont Mining Corporation, Canadian Johns Manville Co. Ltd., and Alrae Exploration Ltd.
5. I have personally supervised and examined Diamond Drilling and the adit work on the Jericho Mines, Ltd. property.
6. I have not received, nor do I expect to receive, any interest directly or indirectly, in the properties or securities of Jericho Mines, Ltd.

Dated this 10th day of March, 1965

  
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Rae G. Jury, P. Eng.