5996

GEOLOGICAL AND GEOPHYSICAL REPORT

on the

JANE MINERAL CLAIMS

for

GRANDORA EXPLORATIONS LTD.

JANE 927/W

F. Holcepsk, P. Eng. Consulting Geologist

Vancouver, B. C. September 20, 1976

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO 5996 MAP_

AGILIS ENGINEERING LTD.

CONSULTING ENGINEERS & GEOLOGISTS

107-925 HOWE STREET, VANCOUVER, B.C., VGC 127

TABLE OF CONTENTS

Page

IN POCKET

POCKET

1-00	INTRODUCT	ION	• • • •		• • • •	• • • •	1
	PROPERTY				• • • •		1
3-00	LOCATION	AND ACC	ESS				1
4-00	HISTORY			• • • •		• • • •	1
4-10	Regional			• • • •		• • • •	1
4-20	Property				••••	•••	2 .
5-00	WORK PROG	RAM				• • • •	3
6-00	GEOLOGY			• • • •		• • • •	3
6-10	General.		• • • •		• • • •	••••	3
6-20	Property Ge				• • • •	* * * *	4
7-00	E'LECTRO M	AGNETI	C SURVE	EY	• • • •		4
7-10	Instrument					• • • •	4
7-20	Interpretation	m	***				4
7-30	Results.					• • • •	5
8-00	CONCLUSIO	NO.	• • • •			• • • •	5
CERTI	FICATION		6 4 0 4	* * * *	••••		6
H /	G	E CL 6 G	4 M	1,0		IN PO	CKET
#2		16 T De			レイエ ん	IN PO	CKET

CLAIM LOCATION MAP

#3 EM-16 SURVEY

4

GEOLOGICAL AND GEOPHYSICAL REPORT

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1-00 INTRODUCTION:

During the period of July 2 to July 11, 1976, Agilis Engineering Ltd. completed a program of gridding, geological mapping and electromagnetic survey. A crew of 3 men was employed.

This report is based on results of the field program, and a review of old reports.

2-00 PROPERTY

The property consists of the following mineral claim, located and recorded by the writer:

Claim	Units	Tag No.	
Jane	20	07704	

3-00 LOCATION AND ACCESS

The claims are located immediately west of the headwaters of Skuhun Creek, approximately 14 miles upstream from the mouth of the creek.

Good bush roads lead from the Spences Bridge - Merritt Highway along Skuhun Creek to the claim group. Several secondary bush roads provide access to the northern portion of the claim group.

4-00 HISTORY

4-10 Regional

Mining activity, in the Highland Valley, started at the turn of the century. During the initial period the area was prospected for high grade copper and the first claims were staked in the vicinity

of Bethlehem Copper ('Snowstorm' Group) and in the vicinity of the South Sea property ('Transval' Group). During the same period the O.K. Mine, presently the Alwyn property was found and 10,000 tons grading 3.6% copper were mined between 1916 and 1917.

Copper veins on the Snowstorm and Transval Groups were explored by underground work and drilling. By 1921 all mining activities had ceased in the area.

In 1954 the Snowstorm group was relocated by H. H. Huestis and Associates and Bethlehem Copper was formed. On February 1, 1963, Bethlehem Copper went into production as Canada's first open pit porphyry Copper Mine.

Subsequent intense exploration of the Highland Valley was rewarded by discoveries of Lornex (1964), Valley Copper (1968) and the Bethlehem "J.A." Orebody (1971).

4-20 PROPERTY

During 1966, Alrae Engineering on behalf of Oro Mines Ltd., completed geological mapping along N-S grid lines spaced 400 feet apart. The survey overlaps in part the area occupied by the Jane claims. The results of the geochemical survey is considered inconclusive because of the method of analysis (Rubeanic Acid). The geological mapping is available but not keyed to the legend hence will have to be rechecked in the field.

Prior to this, a road construction and trenching program and limited induced polarization survey was completed on part of the area occupied by the Jane claims. No results from the induced polarization survey are available.

In April and May 1972 Harvey H. Cohen Engineering Ltd., completed a combined airborne, magnetometer, electromagnetic and radio-activity survey in the general area only partially overlapping the Jane claims. There is very little data available to help to locate the reported electromagnetic conductors.

From the above discussions, it is apparent that the only significant work completed to date that can be used for further exploration is the geological mapping and trenching, if the original grid can be relocated.

During May 31, 1973, the Jane Mineral Claims were located by Bob Turner.

In April 1974, Agilis Engineering Ltd. initiated a magnetometer survey. Interpretation of the results of this survey will have to wait until geological mapping has been completed.

On July 5, 1975, the claim group was relocated by the writer.

5-00 WORK PROGRAM:

The work program was initiated on July 2, 1976. The purpose of the program was two-fold.

- 1. To complete geological mapping (airborne)
- 2. To locate the reported E.M. anomaly on the ground. To facilitate this a grid consisting of 400 foot lines with stations marked at 200 feet was established to obtain ground control.

Geological mapping was completed at a scale of 1 inch = 500 feet. The electromagnetic survey was conducted along the lines using a Ronka 16 Electromagnetic unit. The transmitter station used

was Seattle.

A total of 14.5 miles of gridding was completed, and 352 headings with the E.M. unit were taken.

6-00 GEOLOGY

6-10 General

The property is mainly underlain by the Guichon Batholith of Mid Jurassic to Lower Jurassic age. The Guichon intrusion is in part capped by Kamloops Volcanics of Tertiary age in the region. The Guichon Batholith, host to all of the porphyry type copper deposits, is a northerly trending series of roughly concentric, phased intrusions. It can be subdivided, from the perimeter to the centre into the Guichon quartz diorite, the Bethlehem quartz diorite and the Bethsaide granodiorite.

The batholith is cut by two strong fault zones, the Lornex fault trending northerly and the Highland Valley Fault trending easterly. The first lies just west of the property.

The known ore deposits in the region can be correlated with contact

zones, areas of strong alterations, fracturing and faulting.

6-20 Property Geology:

The only rock unit encountered on the property was the Bethsaida intrusive phase of the Guichon Batholith. Outcrops are generally scarce and were found confined to creeks, gulches and trenches in the north western part of the property. No alteration zones or mineralization was encountered. In the trenches along the western and north western part of the claim group occassional minor malachite staining was observed.

The property was glaciated and a thick blanket of surficial glacial till covers the southern slopes of the claims. Morainal and esker deposits have been observed. These exhibit a general easterly trend. No structural information could be ascertained because of the limited exposures encountered.

7-00 FLEOTRO MA GNETTO SURVEY:

The object of this survey was to locate reported airborne electromagnetic anomalies reported on the property.

7-10 Instrument:

The survey was conducted using an V.L.F. Ronka 16 E.M. unit. The null reading method was employed. Diplangle readings were taken at 200 foot intervels. The Seattle low frequency transmitter station was used.

7-20 Interpretation:

To facilitate interpretation of the field data, a low frequency first derivative filter (Fraser filter) was used to compensate for topographic and other interferences.

The filter is a simple arithmetic process. The readings of two adjacent stations are sustracted from each other and the result is plotted at the mid point between the stations.

The field results and filtered results were plotted as profiles and the maps are appended to the report.

7-30 Results:

The results of the electromagnetic survey are inconclusive. Although several areas of possible conductors are indicated, they can not be substantiated with the known geological setting. It is felt that the indicated anomalies are most likely caused by change in overburden thickness, variation in composition of overburden ie clay layers and swampy areas.

8-00 Conclusions:

The work program completed on the Jane mineral claims showed that the claim area is underlain by the Bethsaida phase of the Guichon Batholite.

Minor secondary copper mineralization was observed in the old cat trenches in the north - western part of the property.

The electromagnetic survey failed to locate the reported air borne E.M. conductor in vicinity of the claim area.

Indicated conductors can not be substantiated by geolocical information and are thought to be caused by overburden.

Respectfully submitted,

F. Holospek, P. Eng. Consulting Geologist

Vancouver, B. C. September 20, 1976

CERTIFICATION

- I, Ferdinand Holcapek of 92 10842 152nd Street, Surrey, B. C. do hereby certify that:
- 1. I am a graduate of the University of British Columbia, with a Bachelor of Science Degree in Geology, 1969.
- 2. Since graduation I have been engaged in mining exploration in British Columbia, Yukon Territory, Northwest Territories, Quebec, Nevada, Arizona, and Australia.
- 3. I am a registered member, in good standing of the Association of Professional Engineers of British Columbia.
- 4. I am a Consulting Geologist.
- 5. This report is based on the exploration program conducted during the period of July 2 to July 11, 1976.
- 6. I have not received, nor do I expect to receive, any interest, directly or indirectly in the properties or securities of Grandora Explorations Ltd.

F. Holcapek Geologist

Vancouver, B. C. September 20, 1976

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To Wit:

In the Matter of Assessment work on the Jane Mineral claims of Grandora Explorations Limited

I, Ghislaine Lightstone

of Agilis Engineering Ltd.

in the Province of British Columbia, do solemnly declare that the following personnel were employed and the cost incurred during the period of July 2 to July 21,1976.

Personnel:		
Peter Peto, Geologist	·	\$2,417.94
Dave Hammer, field assistant		2,072,52
E.sabo, field assistant		1,727.10
F. Holcapek, P. Eng.		500.00
,		\$6,717.56

Disbursements:

Groceries and meals	\$276.70	•
Hotel accommodation	66.16	
Gasoline	81.99	
Long distance calls	22.75	
Sundry expenses	8.00	
Truck Rental	816.00	
Field supplies	90.00	
Equipment rental	50.00	• .
		\$1,411.60
Total cost	· ·	\$8,129.16

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 28th
day of September, 1976, A.D.

Jacquel Hollers

Commissioner for taking Affidavits for British Columbia of Agenta Province of British Columbia.

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