8H-1401-13358



GOLDEN PORPHYRITE LTD.

GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT

ON THE

RAILROAD GROUP

VERNON MINING DISTRICT, BRITISH COLUMBIA

50° 10' N Latitude, 118° 18' W Longitude N.T.S. 82L/1

OPTIONEE: LINCOLN RESOURCES INC. (Formerly Austin Resources Inc.) #1440-625 Howe Street Vancouver, B.C., V6C 2T6

OPTIONOR: GOLDEN PORPHYRITE LTD. #403-750 West Pender Street Vancouver, B.C., V6C 2T7

BY: DAVID M. NELLES, B.Sc.

JANUARY, 1985



This report may not be reproduced in whole or in part without written permission

GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT

ON THE

RAILROAD GROUP

VERNON MINING DISTRICT, BRITISH COLUMBIA

50° 10' N Latitude, 118° 18' W Longitude N.T.S. 82L/1

OPTIONEE: LINCOLN RESOURCES INC. (Formerly Austin Resources Inc.) #1440-625 Howe Street Vancouver, B.C., V6C 2T6

OPTIONOR: GOLDEN PORPHYRITE LTD. #403-750 West Pender Street Vancouver, GBEOLOGTICAL BRANCH ASSESSMENT REPORT

BY: DAVID M. NELLES, P

JANUARY, 1985

TABLE OF CONTENTS

NUMBER OF

A NUMBER OF STREET, ST

Concession of

INTRODUCTION	• • • • • • • • • • • • • •			••••	••••	1	
i) LOCATI Locati	ON AND ACCESS on Map	•••••		•••••	••••	1	
ii) PROPER Claim	TY DEFINITION Map	•••••	•••••	•••••	••••	1	
iii) WORK S	UMMARY		•••••	• • .• '• • • • •	••••	2	
GEOCHEMICAL S	URVEY				• • • • •	3	
Heavy Sedimen Heavy Sedimen	t Location Map t Geochemical	Results				In In	Pocket Pocket
GEOLOGICAL SU	RVEY					5	
Geology Map						In	Pocket
RESULTS AND I	NTERPRETATIONS	5	• • • • • • • • • •	• • • • • • •	• • • • •	6	
ITEMIZED COST	STATEMENT	•••••	• • • • • • • • •	•••••	• • • • •	7	
CERTIFICATE O	F QUALIFICATIO	ons	• • • • • • • • •	• • • • • • • •	• • • • •	8	

APPENDIX A

Geochemical Results

APPENDIX B Sample Descriptions

INTRODUCTION

1

i) Location and Access

and a second second

85

The Railroad Group is situated in the Vernon Mining Division on N.T.S. Sheet 82L/1, centered at approximately 50° 10' N latitude, 118° 18' W longitude, about 37 km ESE of the town of Lumby, B.C.

The property is accessible via logging roads east of Highway 6 about 10 km southeast of Cherryville, B.C. The roads are in good condition and can be negotiated with two-wheel drive vehicles. Skid roads of varying grades give good access to much of the property.

ii) Property Definition

The Railroad Group consists of 6 contiguous mineral claims, Railroad 1 - 5 and Crystal 2, totalling 84 units within the Vernon Mining Division, B.C. The claims were staked between October 27th and November 6th, 1983 and are currently optioned by Lincoln Resources Ltd.

The claims lie within the Omineca physiographic division of the Canadian Cordillera. The property and surrounding terrain is typified by broad U-shaped valleys with moderate to steep slopes and distinct ridges. Elevations of the property range from 3,900' (1,189 m) to about 7,000' (2,134 m).

The southern portion of the property has been stripped of merchantable timber allowing secondary growth in the slash. Virgin stands, however, consist of mature fir and cedar with minor spruce. Thicker growth is found on the north facing slopes while



the south slopes tend to be drier and support less underbrush.

iii) Work Summary

(An and a state

- Uthellow.

The 1984 program on the Railroad Group consisted of geological mapping and sampling and heavy sediment geochemistry. Mapping was done at a scale of 1:25,000 and covered approximately 10 km² in the southwest part of the property. Whilst mapping, a total of 18 rock chip and 18 heavy sediment samples were collected. The program was completed in two separate stages, the first of which was unsuccessful due to the inclement weather conditions

The following is a list of the claims and the work performed on each:

Railroad 1	a de la companya de l
Railroad 2	Geological mapping and heavy sediment geochemisty
Railroad 3	Heavy sediment geochemistry
Railroad 4	en la construction de la construction
Railroad 5	Geological mapping and heavy sediment geochemistry
Crystal 2	Geological mapping and heavy sediment geochemistry



Contraction of the second

CIN462

GEOCHEMICAL SURVEY

In the process of mapping, a total of 18 rock chip samples were taken from various surface exposures. These samples were extracted using a hammer and chisel and stored in polybags for analysis. All samples were shipped to Chemex Labs in North Vancouver, B.C., where they were analyzed for gold, silver, lead, zinc and copper. There, all rocks were first ring ground to -100 mesh. Analysis for gold required 10 g subsamples to be fused with 10 mg of gold-free silver metal. The fusion was then cupelled and the resulting silver bead parted with dilute nitric acid and treated with aqua regia. The remaining salts were then dissolved in dilute HCl and analyzed for gold via atomic absorption spectometer with a 1 ppb detection limit.

- Sector

ALC: NO

And the state

Defetionen

CURACION OF

S. Street

¥.

A STREET

Silver analysis required 1 gram portions of each sample to be digested in concentrate perchloric-nitric acid for approximately 2 hours. The digested sample was then cooled and made up to 25 ml with distilled water. The solution was then mixed and solids were allowed to settle. Silver concentration was then determined using corrected atomic absorption techniques with a detection limit of 0.1 parts per million.

Analysis for copper, lead and zinc involved the digestion of 1.0 gram portions to the sample in a $HNO^3 - HClO^4$ mixture for 6 hours. Metal concentrations were then determined using corrected atomic absorption techniques with a detection limited of 2, 1, and 1 ppm respectively.

In addition to the above sampling, a total of 18 heavy sediment samples were taken at key points on various creeks draining the property. Once collected, the approximately 2 kg samples were bagged and shipped for analysis. Where lack of sediment and/or

3

water prevented proper heavy sediment sampling technique, samples were obtained by concentrating stream sediments by prospectors pan. In most cases, approximatetly 5 kg of material was panned and the concentrates saved for analysis.

4

These samples were submitted to Chemex Labs in North Vancouver, B.C. where they floated in tetrabromoethene to isolate minerals with specific gravity greater than 2.95 \pm 0.1 g/cm³. This fraction was then crushed to -100 mesh and geochemically analyzed for gold and silver.

For gold, five (5) gram portions were ashed at 800° C for one hour, digested with aqua regia, twice to dryness and taken up in 25% HCl. Gold was then extracted as a bromide complex into Methyl Iso Butal Ketone and analyzed via atomic absorption with a 10 parts per billion detection limit.

Silver analysis was carried out as for rock chips.

- All March

A CONTRACTOR OF

Note: Because most of the results obtained from these samples were not considered anomalous, only significant values were plotted against their location.

GEOLOGICAL SURVEY

No.

Output to

ALC: NO

A CONTRACT

Property geology was mapped at a scale of 1:25,000 using elevation, topography and roads as controls. Having been heavily glaciated during the Quaternary the property is covered with a thick layer of till, masking much of the outcrop in the valleys. Most of the outcrop was therefore confined to road cuts and ridge tops, where accessible. An area of approximately 10 km² was covered.

Most of the outcrop encountered is believed to belong to the Upper Triassic Sicamous Formation and consisted of dark massive fine grained siltstone, pale green volcanically derived sandstone/greywacke and intermediate to mafic volcanics. These rocks were locally oxidized, brecciated, sulphitic and/or calcareous.

The members displayed widely varying attitudes but roughly paralleled the southeast-northwest regional trend.

In the southern portion of the claims, an earthy grey fractured sedimentary breccia is exposed. This unit contained angular limestone fragments of varying sizes but displayed little economic mineralization.

Mineralization encountered within the claims consisted of disseminated sulphides, including pyrite, chalcopyrite and pyrrhotite. Minor quantities of other sulphides were also present.

5

RESULTS AND INTERPRETATIONS

6

1.100 Barrier

- Calgarities

Heavy sediment sampling carried out in the 1984 program was successful in obtaining several anomalies which better isolate the source of the gold mineralization on the Railroad group. Samples from three creeks, aside from those delineated by the 1983 program, were found to carry gold. The best of these samples, at the headwaters of Barnes Creek, a known placer producer, assayed 2,240 ppb Au and 60 ppm Ag. From this and previous work, it is apparent that the gold source is probably within the Crystal 2 claim. High values obtained in 1983 from creeks draining this claim however were not confirmed by this year's sampling. This was probably due to the different sampling method used in this program because of lack of water in the creeks. It is therefore probable that sampling carried out under better conditions would return more consistent results.

The limited sampling and mapping carried out on the Crystal 2 claim was unsuccessful in locating the source of gold. With more detailed mapping however, the mineralization should be found. Sampling from elsewhere on the claims did not return significant values.

ITEMIZED COST STATEMENT

7

· Transformation

小吉田

C. AND

A CONTRACTOR

and the states.

Û

- Martine

```
June 7th - 9th and Aug 3rd - 9th
```

$W_{2} = 12$ mandaug at \$142.75	
- 22 mandays at \$115.00	\$ 4,398.75
Board - 27 mandays at \$21.68	585.35
Room - 24 mandays at \$14.11	338.65
Transportation	151.99
Equipment and Expendables	1,022.22
Analysis - 18 rock chip at $$17.39$	
18 heavy sediment at \$18.90	653.23
Report and research	2,067.90
Office expenses	781.11
Subtotal	\$ 9,999.20
Management fees (10%)	999.92
Total	\$10,999.12

CERTIFICATE OF QUALIFICATIONS

I, David Nelles, do hereby certify that:

Contraction of the local division of the loc

1. S. S. L.

-signer -s

- Hereit

Ì

- I am a Geologist with business offices at 403 750 West Pender Street, Vancouver, B.C., V6C 2T7, and am employed by Golden Porphyrite Ltd.
- 2. I am a graduate of the University of B.C. with a Bachelor of Science degree in Geology.
- 3. This report is based on ten days of field exploration of the Railroad Claims
- 4. I have no interest, direct or indirect in the Railroad claims or Lincoln Resourcs Ltd., nor do I expect to receive any.

Dated this 15 day of January, 1985 at Vancouver, British Columbia.

Nelle

8

David M. Nelles, B.Sc.

APPENDIX A

Total Street

1 Sugar

Sample Results

Chemex Labs Ltd.

212 Brooksbank Ave North Vancouver, B.C. Canada V73.2C1



Analytical Chemists · C

Geochemists · Registered Assayers

Teleptione (604) 984-0221 Telex 043-52597

CERTIFICATE OF ANALYSIS

TO : GOLDEN PORPHYRITE LTD. 403 - 750 WO. PENDER ST.

CERT. # : A8414720-001-A INVOICE # : I8414720 DATE : 16-AUG-84 P.O. # : NONE

403	-	150	WO.	PENDER	S
VANO	:0ι	IVER .	8.0	•	
V6C	21	7			

4	Sample	Prep	Cu	Pb	Zn	Ag ppm	Au opb	
	description	code	ppm	ppm	ppm	Aqua R	FA+AA	
and the second	R400-RG 0001	205	24	1	82	0.1	1	
	R400-RG 0002	205	11	3	63	0.1	<1	
	R400-RG 0003	205	92	1	66	0.1	< 1	°
4	R400-RG 0004	205	18	46	25 C	0•4	<1	
	R400-RG 0005	205	30	2	78	0.2	<1	
	R400-RY 0004	205	27	1	64	0.3	21	÷
	R400-RY 0005	205	168	1	73	1.3	<1	
	R400-RY 0006	205	18	1	26	0 • 1	<1	
	R400-RY 0007	205	17	1	30	0.2	<1	· · · ·
	R400-RY 0008	205	120	3	120	1.0	24	·
	R400-RY 0009	205	70	1	83	0.2	2	
	R400-RY 0010	205	63	-1	83	0.2	<1	·
	R400-RY 0011	205	57	1	75	0.1	<1	
	R400-RY 0012	205	30	4	60	0.1	<1	
	R400-RY 0013	205	25	5	50	0.3	<1	
N.	R400-RY 0014	205	7	4	90	0.1	3	· · ·
	R400-RY 0015	205	55	Z	80	0.2	<1	
	R400-RY 0016	205	6	7	68	0.1	<1	

HartBuchler Certified by .

\$ TYPE A8414721.FIN

Support.

- A STATE

- States

Ì

a line

W.O. #	:	A8414721
Client	:	GOLDEN PORPHYRITE
<pre># of samples</pre>	:	39
Received Date	:	10-AUG-84
Project		
Comments		

Sample		Ag ppm	AU-AA
Descrip	tion	Agua R	ppb
R400-HS	0011	6.0	2240
R400-HS	0012	0.8	<20
R400-HS	0013	2.8	400
R400-HS	0014	1.8	20
R400-HS	0015	2.6	20
R400-HW	0012	1.2	<20
R400-HW	0013	1.4	<20
R400-HW	0014	0.4	<20
R400-HW	0015	0.2	<20
R400-HW	0016	0.2	<20
R400-HW	0017	0.2	<20
R400-HW	0018	1.0	<20
R400-HW	0019	0.8	1600
R400-HW	0020	2.2	40
R400-HW	0021	0.8	<20
R400-HW	0022	1.2	<20
R400-HW	0023	3.6	<20
R400-HW	0024	1.0	<20
			/

APPENDIX B

entranger.

Ω

Ú

0

- Williams

Sample Descriptions

APPENDIX B

· solution

- Sajakin

- Contraction

A DESCRIPTION OF

- Transferra

0

SAMPI	E		DESCRIPTION
R400	RG	0001	Andesite cut by grey diorite dyke
R400	RG	0002	Silicified, fractured guartz veined andesite
R400	RG	0003	Grey fine grained feldspar porphyry with pyrrhotite
R400	RG	0004	Green aphanitic weathered volcanic rock with sul- phides
R400	RG	0005	Dark grey fine grained greywacke
R400	RY	0004	Oxidized grey dacite with 2 to 3% pyrrhotite
R400	RY	0005	Oxidized dark grey volcanoclastic with minor pyrite
R400	RY	0006	Green-grey greywacke with minor pyrite
R400	RY	0007	Quartz calcite veining with pyrite
R400	RY	8000	Brown weathering grey altered volcano-sediments
R400	RY	0009	Grey siltstone/tuff with pyrrhotite
R400	RY	0010	Grey-green dacite with mafic phenocrysts
R400	RY	0011	Grey-green dacite with mafic phenocrysts
R400	RY	0012	Contact zone between andesite and greywacke
R400	RY	0013	Calcite vein within chloritic volcanics
R400	RY	0014	Calcite vein within chloritic volcanics
R400	RY	0015	Oxidized quartz porphyry
R400	RY	0016	Oxidized rhvolitic volcanics with guartz eves





